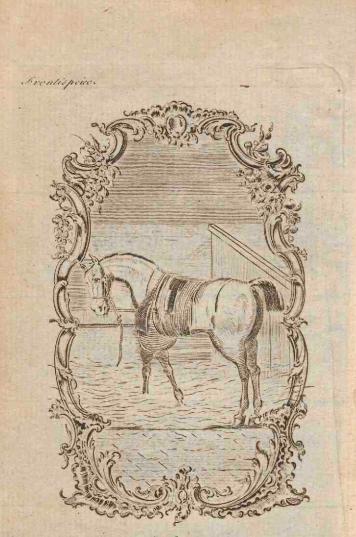
The gentleman's farriery: or, a practical treatise on the diseases of horses : wherein the best writers on that subject have been consulted, and M. La Fosse's method of trepanning glandered horses is particularly considered and improved : also a new method of nicking horses is recommended; with a copper-plate and description of the machine : to which is added an appendix, treating, 1. Of particular disorders of the feet. 2. Observations on shoeing horses. With proper cuts

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THE

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Gentleman's Farriery:

OR, A

PRACTICAL TREATISE

ONTHE

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To which is added an APPENDIX, Treating, 1. Of Particular DISORDERS of the FEET. 2. OBSERVATIONS on Shoeing HORSES. With proper CUTS.

By J. BARTLET, SURGEON.

The SEVENTH EDITION, revifed.

LONDON:

Printed for J. NOURSE, HAWES, CLARK, and COLLINS, S. CROWDER, T. CASLON, J. FLETCHER, Z. STEWART, W. NICOLL, ROBINSON and ROBERTS, and J. POTE at Eton. MDCCLXX. Abitur infelix fludiorum, atque immemor herbæ, Victor equus; fontefque avertitur, & pede terram Crebra ferit: demiffæ aures; incertus ibidem Sudor & ille quidem morituris frigidus: aret Pellis, & ad tactum tractanti dura refifit. Tum vero ardentes oculi; atque attractus ab alto Spiritus interdum gemitu gravis imaque longo Ilia fingultu tendunt : it naribus ater Sanguis, & obfefías fauces premit afpera lingua.

Virgil. Georgic. Lib. III.

THE

PREFACE.

THE author of the following treatile was induced to the undertaking, from the complaints fo frequently made by gentlemen, of the ob/curity, inaccuracy, and tediousness, too general among the writers on the difeases of borses. On this account be thought he should make no unacceptable prejent to the public, if he collected from the best authors on this subject, such particular symptoms of diffempers, as would lead to the discovery of the real one, and distinguish it from others of a similar nature, rejecting all other descriptions as useles speculations. By a due attention to this plan, every gentleman would foon judge of the ability of bis farrier, should be think proper to confult one, before he follows the directions bere laid down.

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WOULD

WOULD these practitioners, instead of ringing the changes with a fet of paltry receipts, banded down to them from their ignorant grandfires, but carefully apply themselves to this so useful and necessary branch of knowledge, and industriously collect and compare the fymptoms of particular difeafes, they would attain much more certainty in their practice, and, of course, more safety and expedition in their cures. They would then find that a few simple medicines, judiciously directed in acute cases, would fully answer their intention, by suffering nature to co-operate with them; and that the nauseous ill-contrived drenches, so generally made use of, but too often thwart ber operations, and prove of worfe confequence than the difease itself.

FOR it is this knowledge of the fymptoms of difeafes, that diftinguisthes the rational physician from the empirical pretender; it is this accounts for the fuperior ability and judgment which appears between one physician and another; and it is hence only any progress can be made

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made in the healing art; and more particularly in the difeases of horses, as the suffering animals can only describe their pain by their gestures.

WITH what contempt and indignation then must we view juch ignorant pretenders blundering about a distemper, groping in the dark, and throwing in medicines at random ? And what a melancholy situation must be that of the unbappy victim? The power of nature, or firength of constitution, will now and then indeed furmount the ignorance of blunderers, and elude the force of their hotch potches; fo that the doctor shall receive applauses and rewards for his imaginary skill, when he deferves ignominy and the severest censures. But what should we conclude hence ? Why only that fome few constitutions, like fome fortifications, are bomb-proof, and can Support the Shocks of the whole medical artillery, without blowing up.

AND here I cannot but lament the firange fupinenefs of many gentlemen, who though they are real admirers of A 3 this

this useful animal, and spare no expense for the cure of their maladies, yet suffer themselves to be imposed on by illiterate grooms, and unskilful farriers; who, for the Jake of their own private advantage, are frequently poaching their borfes with drenches, which not only class with every intention of cure, but aggravate the diforder : whereas, would gentlemen but take a little pains (and fure the study would be an entertainment) to make themselves acquainted with the laws of the blood's circulation, and the different secretions of the various fluids; they would foon be convinced (of what I have before binted) that injudicious jumbles of drugs are only a load on the constitution, and frequently defeat the very intentions of nature; who of berfelf, or with very little affifiance, would in general foon work her own deliverance; but when the load of the supposed remedy is added to the disease, the oppression becomes too violent for nature long to support; and though the animal has the constitution of a horse, yet must it at last submit, and fall a facrifice to ignorance and blind credulity

lity — A few leading questions would alfo soon convince gentlemen of the stupidity, but too prevalent among the major part of these prating fellows; and satisfy them how precarious, if not fatal, must be the practice of men, so little acquainted with the laws of nature, and of that machine they are subverting by their continual blunders. By these means also the deserving farrier would have proper justice done him, and be distinguished from the common herd, by his superior abilities.

PERHAPS it may be no ufeles digression to observe here, that this would not be the only advantage refulting from these kinds of sludies; as gentlemen would thereby be enabled to form a proper judgment of those guardians, with whom they often entrust their own healths and lives, and distinguish the superficial loquacious coxcomb in physick, from the rational and modest practitioner : for in general it may be observed, that in proportion to the shallowness of the stream, the bubbling and noise is most manifest, and where the froth of science A4 only vii

only has been sipped, it is no wonder, as our judicious Satyrist has observed, that fuch shallow draughts should intoxicate the brain. But till gentlemen make this a more general study, and thereby become better judges of physical merit, we must not be furprized to find them fometimes imposed on by such conceited Smatterers; whose cant, though deemed oracular by the credulous, is but too like the oracles of old, Specious delusion, and vile imposition; where learned impertinence passes for sound erudition, and a barren Superfluity of words, for wonderous knowledge and elocution. Thus founds are adopted and mistaken for fense; and impudence and folly but too often triumph over modesty and true defert : for as the above-quoted Poet justly observes,

Distruftful sense with modest caution speaks,

But rattling nonfenfe, in full volleys breaks.

BUT to return: It may be neceffary to inform the reader, that as the

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the intention of this treatife was to be as concife as possible, and entirely practical; the immediate causes within, which occasion the disorder, with the most plausible theories relative thereto, are in genral omitted as precarious and delusive; for we apprehend they tend rather to confound, than improve the judgment, and obscure an art that should chiefly be founded on penetrating observation, and faithful description. Indeed, the incertitude thas has always appeared in these fort of conjectures, hath now fully convinced the ingenuous of their inutility, and that one Sydenbam, one faithful recorder of fasts, bas merited more, by observing and following nature, painting to the life what his eyes faw, and fingers felt, than all the hypothetical writers united : as a proof of this, we need only recollect the numberless, ridiculous, and inconfistent theories, that have fprung up fuccesfively, and which all had their patrons for a time, but dwindled into difrepute and oblivion, in proportion to the advances of more plaufible conjectures : and this probably will be the fate of all subsequent ones,

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ones, that are not erected on the more folid basis of repeated experience, and sedulous observation.

FOR thefe reafons particularly we have endeavoured to be as explicit as possible, in enumerating the symptoms, as laid down by the best authors; esteeming them to be the only true guides that can lead us to the knowledge of the difcase, and consequently to the remedy. Should it be thought we have dwelt too long on this part, we must plead the importance of it for our excuse, as we apprehend, by being more concise, the work had been less valuable.

IT may not be improper here alfo to acquaint the reader, that this piece was originally drawn up, and intended for the author's own ufe, to refer to occafionally, and fave the trouble of turning over on every occafion the various writers on this fubject; and that having been frequently borrowed by his friends, their approbation of the plan, and request, prevailed on him to fend it to the prefs, with fome additions. 3 He

He is well aware how much be exposes bimfelf to the cenfure of the little criticks. and to the fneers of the malicious among his brethren; but he begs thefe would remember, that to write pertinently on the difeases of horses, requires more medical knowledge and fludy than may at first be apprehended; a parity of reafoning being requisite in treating the maladies of borfes and men. And be is convinced, that fo nearly allied is the true art of farriery to those of physick and furgery, that it never can be perfected, but on similar principles; and of course the subject can never be so properly handled, as by those who have made those arts their study. This will evidently appear, by comparing only the two last treatifes in our own language with all that have preceded them : for though many ufeful observations and remedies may be picked up from Blunderville, Markham, De Grey, Soleyfel, Gueriniere, Saunier, Sec. yet, for the most part, their method is irrational, and not founded on a thorough knowledge of the mechanism of a horfe, or animal acconomy; their medicines

medicines in general are a strange compound or jumble of various and discordant ingredients; suitable enough to the then reigning fashion of prescribing where the false pomp of numerous ingredients inbanced their value; but by no means agreeable to the later improvements, or to that just simplicity that so remarkably adorns the practice of modern physick and surgery.

THE author has no other apology to make for digesting this piece, and the observations and reflections he has interspersed throughout the whole, than bis good intention to rescue the practice of farriery out of hands that fo much abuse it; and to convince gentlemen, that as it is founded on rational principles, it is neither unbecoming their notice, or unworthy their study: and he thinks he has reason, from some late attempts, to bope, that it will foon become as customary for gentlemen to go through regular courfes of farriery, as it is for phylicians and furgeons through those of chemistry and anatomy.

IT

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IT cannot indeed be expected, that our farriers should make any real progress in their profession, till they apply themselves early to the fludy of anatomy, and to the diffections of morbid bodies, and lame borfes : by this method (and this only can do it effectually) a new Scene of knowledge will be unfolded to them: thus would they rectify their former errors, and be gua-ded against future ones, and taught by these very principles of anatomy bow to all on one fleady and uniform plan. But now, through ignorance of the real feat of the diforder, how frequently do they rowel, cauterife and apply medicines externally, to parts free from any ailment or grievance whatever, while they negleft the real fource of the diforder? And how few from their experience, have made any tolerable ufeful observations, fufficient to deduce the caufe from the symptoms, or form a rational method of cure ?

IT has often occured, how advantageous a fludy this would prove to an ingenious

ingenious young man of tolerable education; who, by thus acting on rational principles, deduced from fuch foundations, and devoting his whole time to the making fuch observations, as would be the natural result of his study and experience, would of course soon render himfelf so eminently conspicuous over the rest of his brethren as would amply repay him for his labours; for the distinguisched light he must appear in to every admirer of that noble animal, would furely excite their generosity to encourage fuch superior merit, and their gratitude of course to reward it.

WHAT gentleman that would not be highly delighted, and think it a rational entertainment, to have the fource and caufe of lamenefs in a favourite borfe, evidently pointed out, and demonfirated to him by fimilar preparations kept by the ingenious anatomist for that purpose? How would old prejudices by this means be banished, and new discoveries supply their places, supported by evident truths, and plain demonstrable facts. It is to this study that modern furgery

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furgery is indebted, for the great progress it has of late years made, and the daily improvements that are still making; and from hence arise those real benefits to mankind, which no other art or science can pretend to with equal merit and utility.

BUT till this fludy is more patronized among us, we must not wonder at the flow advances it makes; for the practice and character of a borse physpician, or surgeon, at present stands so low, in the popular opinion, by which many of our passions (our pride in particular) are regulated; that, as has been wittily observed, not even a country surgeon, who is almost starving under a sparticity of human patients, will deign to attempt a fortune, by applying his medicinal and chirurgical talents to the service of this necessary servant of mankind.

BUT to return, we think it incumbent on us to acknowledge our obligations to Dr. Bracken and Mr. Gibson's treatifes on this subject, for many ingenious obferva-

fervations, and real improvements; and must confess, that, in our opinion, these two gentlemen are the only authors, who have treated the difeases of borses with propriety, judgment, and method ; though perhaps there are few of note, that we have not carefully perused, in order to render this treatife more complete; but these are the chief of those, who have fuccessfully contributed to introduce a rational system of farriery, and to affift gentlemen in judging for themsclues in cases, wherein every perfon of a superior education, with any tolerable share of experience, may at least put himself on a footing with the generality of our horfe-doctors. To these gentlemen we are indebted for the early and ingenious steps they made towards reducing it to a rational System; well knowing it was matter of weight enough to engage the most sagacious in the improvement of an art, from which so confiderable a benefit arifes to the greater part of mankind. To a late modern writer, the Sieur La Fosse, we are also greatly obliged, for the many accurate observations and discoveries

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discoveries be has made on this subject, and which in the course of this work, we have made due acknowledgement of.

TERMS of art, and obscurity in expression, have purposely been avoided as much as possible; (though sometimes the nature of the subject has forced us to deviate from our intended plan:) For indeed we are more desirous of being intelligible to the meaness capacity, than ambitious of writing in a polished stile, to which we make no pretensions; and on this account we expect some indulgence from the candid reader.

THE receipts, it is boped, will not be thought too numerous, as their preference to each other is generally pointed out; and as the ingredients of fome may not always be procurable, it was therefore thought neceffary to fubfitute others in their flead. Befides, the difficulty that occurs in adjusting the quantities and qualities of various drugs, though a thing familiar and eafy enough to one acquainted with medicine, would b xvii

have greatly embarraffed the gentleman fludent. Should fome of them be thought too expensive, we defire it may be remembered, that, as we have sludied to cure in the shortest method, perhaps there may be little reason for complaint in the event, especially when the expence of the dearest of them is compared with a farrier's bill : Though we have feldom directed any of this sort, without giving the common cheap forms with them; and left the alternative to the circumstance of the reader, and the value of his borse.

WE beg leave however to observe, that the writers on the diseases of borses are often too sanguine in the virtues they associate to particular medicines, and drugs; and too warm in the associations of their particular success in their practice and experience. But how are we often disappointed, when we come to compare these observations with our own experience! Nor is this so much to be wondered at when we reflect that no man by his own practice can acquire a sufficient knowledge of the virtues of onetenth

tenth part of the fimples in use, so that, of consequence, writers must copy from one another, and report to us many things on tradition.

WHOEVER is at all acquainted with the power of drugs, even from his own experience, knows bow extremely difficult it is to afcertain their medicinal properties; as the fame individual medicine has different effects, not only in different conflictutions, and in different diseases, but also in different stages of the fame defeafe. In thort, there are fo many circumstances, to which we either do not, or perhaps cannot, sufficiently attend, which vary their operation and effects, that we are frequently difappointed in our expectations, even of those medicines with which we are best acquainted:

THESE ingenious hints I thought extremely neceffary, in order to convince gentlemen of the great uncertainty of medicine in general; to the end that they may not be imposed on by the superficial reasonings of farriers in general, b 2 who

who on every occasion are but too ready to poach their borfes with fome numeraing drench or other; nor depend too much them f lves on every receipt with a probatum eft; for if nature or chance removes the diforder, the good effects are but too often attributed to the medicine; and, if the caufe be thereby oggravated, it is then aferibed to the malignity of the difease. In truth, nothing is so difficult to ascertain, as the true virtue of medicines, and our fondness for many of them. but too often rifes in proportion to our credulity, ignorance, or prejudices: for, in our first studies, we have little experience of our own, and must therefore rely on the authorities of others; and before we have gone through the several branches of science, we have usually swallowed so many creeds implicitly, that it is perhaps with difficulty (fo deeply rooted are our prejudices) we ever get the better of them, and far the greater part perhaps are misled for life. It then the profellors of medicine, whole lives are devoted to the fludy of the art, are liable to thefe. deviations and incertitudes, how much more must the gentleman be imposed on, robo

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who depends on the authority of a favourite author, or a traditionary receipt, without being at all acquainted with the uncertain operation of drugs in general, or the difeafe in cure; for this we may venture to affirm, that the effects of medicine rather take their force from a proper judgment, in the due application of them, than from any confiant and inberent virtue of their own; and that it is the judicious timing and adapting the medicine to the circum/tance of the difeafe, that conflitutes it either a beneficial remedy, or a de/tructive poifon.

THESE observations, it is boped, will be of fome use to gentlemen, and ferve to convince them, that neit' er themfelves or borses need, on every slight occasion, be crammed with medicine; but that abstinence, and proper nursing will in many cases be the best remedy; as they will give nature and the constitution sufficient opportunities to relieve themfelves, and of course avail more than the loathsome doses, that are so constantby given, with so little judgment, and lefs success.

THE

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XXIII

THE chapters on Glanders and Nicking, with the Plates and Explanations annexed, it is boped, will prove both ufeful and entertaining; though we have been informed, that the operation of Trepanning Glandered Horfes was attempted in England many years before M. La Fosse's book was published; and probably was difcontinued, for want of a thorough knowledge of the parts affected in this disease, or from unfuccessful trials made on borfes, that might be in the last flages of this distemper, and of course from the nature of them, incurable; but the strong probability of fuccess, in most cases, it is hoped, will now be a Sufficient inducement to follow the method bere laid down, till further experience. can recommend a better; and be alfo a fariber incentive to our industry, in bringing to perfection the cure of a disease, the most nauseous and dangerous to our borfes, and that hitherto has been a reproach to the art of farriery.

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THE

XXIII

THE chapters on Alteratives and Humours, we hope will be attended to, and particularly the use of Nitre so Strongly recommended therein, which by frequent experience, fince our last edition, we have given to the quantity of half a pound a day, or more ; particularly in Fevers, Inflammatory Cafes, and Staggers; nor will it be found lefs ufeful as an alterative, by means of which it is boped the too frequent use of strong purges, may in time be difcarded; for we doubt not, when gentlemen are once convinced of the nature and power of alteratives, and guarded against the absurd notions of farriers, in relation to humours, the preference will be given to the alteratives, and a practice established as innocent and fuccessful, as that of purging is dangerous and uncertain.

MANY improvements have been made on a revifal of this edition for the prefs, and M. La Fosse having lately published a treatise on the diseases of the feet and shoeing horses, which is esteemed particularly curious; we have added an

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The PREFACE.

an abstract of it to this edition, in a distinct Appendix.

P.S. By long experience of the use of Nitre, it is now recommended to be given in much larger quantities than was at first advised; viz. to three or four ounces for a dose, and this quantity well diluted with water-gruel may, in fevers, and many cases, be given thrice a day.



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Synthemical Version

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THE

Gentleman's Farriery, &c.

CHAP. I.

Some General Dirctions in regard to Horses.

E T it be laid down as a general rule, Medicines to give horfes as few medicines as are impoffible; and by no means comply proper for horfes in with the ridiculous cultom of fome, who health. are frequently *Bleeding*, *Purging*, and giving *Balls*, though their horfes are in perfect health, and have no one indication that requires fuch treatment.

Proper management in their Feeding, Exercife, and Dreffing, will alone cure many diforders, and prevent most; for the fimplicity of a horfe's diet, which chiefly confists of grain and herbage, when good in kind, and dispensed with judgment, fecures him from those complicated diforders, which are the general B effects

General Directions in

effects of intemperance in the human body.

Foreign- In France, Germany, and Denmark, ersdepend horfes are feldom purged; they depend more on there much on Alteratives; the use of the alteratives liver of antimony, we have from the ing medi- French, which is in general a good medicines cine for that purpose, and may, in many cafes, often be substituted in the room of purging.

The beft As Hay is fo material an article in a hay fhould be procured. procure the beft; when it is not extraordinary, the duft fhould be well fhook out, before it is put in the rack; for fuch hay is very apt to breed vermin.

Caution Beans afford the ftrongeft nourifhment concerning beans. horfes; except on particular occafions. In fome feafons they breed a kind of vermin called the red bugs, which is thought to be dangerous; the beft method, in fuch cafe, is to procure them well dried and fplit.

Cautions in the ufe of bran. Bran scalded is a kind of Panada to a fick horfe; but nothing is worfe than a too frequent use of it, either dry or scalded; for it relaxes and weakens the bowels

regard to HORSES.

bowels too much. The bots in young horfes may be owing to too much mufty bran and chaff, given with other foul feed to make them up for fale : particular care therefore should be taken that the bran be always fweet and new.

Oats, well ripened, make a more hear- Oats the ty and durable diet than *Barley*, and are best diet much better fuited to the constitutions of horses. English horses, as appears by experience. A proper quantity of cut ftraw and hay mixed with them, is fometimes very ufeful to horfes troubled with bots, indigeftion, Bc.

The method fome have of giving An ufeful to young horfes, oats, or peafe, Gc. in remark. the ftraw, is attended, amongst others, with this inconvenience, that their pulling out the ftraw, in order to find the corn, teaches them a bad cuftom, which they never after forget, of pulling most of their hay out of the rack into the manger or on the floor, with the same expectation.

Horfes who eat their litter, fhould par- Obfervaticularly have cut ftraw and powdered tion. chalk given them with their feed, as it is a fign of a depraved ftomach, which wants correcting.

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The

General Directions in

The good of faltmarthes.

The Salt-Marfbes are good pafture, reproperties markably fo for horfes who have been furfeited, and indeed for many other diforders ; they purge more by dung and urine than any other pasture, and make afterwards a firmer flefh : their water is for the most part brackish, and of course, as well as the grafs, faturated with falts from the fea-water.

Seawater, its ule.

The great advantages that arife from drinking Sea-water, fo much recommended (among us) of late, may have taken the hint from the good effects it was observed to produce, in obstinate chronical cases, on morbid horfes; who are as frequently fent to the marshes, when all other means are defpaired on, as confumptive people are to Briftol, and as often recover beyond expectation.

Grafs often necelfary.

A fummer's grafs is often neceffary; more particularly to horfes glutted with food, and who use little exercise, but a month or two's running is proper for most; those especially who have been worked hard and have ftiff limbs, fwelled legs, or wind-galls. Horfes, whole feet have been impaired by quitters, bad fhoing, or any other accidents, are also best repaired at grafs. Those lameneffes particularly

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ticularly require turning out to grafs, where the muscles or tendons are contracted or fhrunk; for by the continual gentle exercise in the field, with the affistance of a pattin-shoe on the opposite foot, the fhortened limb is kept on the firetch, the wasted parts are reftored to their usual dimensions, and the limb again recovers its usual tone and firength.

Where it can be done with conveni-What ence, the pafturing them in May and months to June is in general most adviseable: as the grafs in those months is to be preferred, and the grafs in those months is to be preferwhy. red; and the feason is less infested with flies and heat, which in July and August are apt to be very troubless and frequently fo tease and torment a horse at pasture, that, with stamping and kicking, his gourdiness and wind-galls will often rather be increased than diminished.

The *Fields* which lie near great towns, Cautions and are much dunged, are not proper fpect to pasture for horses; but, on observation, pasture. appear very injurious to them, if they feed thereon all the summer.

Horfes may be kept abroad all the Mofthorfyear, where they have a proper ftable, or es would fhed, to fhelter them from the weather, broad all B 3 and the year.

General Directions in

and hay at all times to come to. So treated, they are feldom fick, their limbs always clean and dry; and with the allowance of corn will hunt, and do more bufine is than horfes kept conftantly at houfe.

Morfes taken up from grafs how managed.

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If, when horfes are taken up from grafs, they fhould grow hot and coffive, mix bran and chopt hay with their corn; and give them fometimes a feed of fcalded bran for a fortnight, or longer: let their exercife and diet be moderate for fome time, and both increafed by degrees.

Antimonials and alteratives fometimes neceffary.

Equal quantities of antimony and fulphur, are fometimes given in their corn or marfhes, to fweeten the blood, and keep the body open. The liver of antimony is frequently directed for this purpofe, to the quantity of half an ounce at a time; but it is thought by fome to fucceed beft after the blood has been gradually warmed and fufed by the above or with antimony and gum-guaiacum, previoufly taken for ten or twelve days.

Caution concerning liver of antimony. It is worth observing, that when this medicine is given in larger quantities, inflead of promoting a kind moifture, and free perspiration through the skin, it 3 fometimes

regard to HORSES.

fometimes creates a heat and drynefs; when therefore a kindly moift breathing is not diffinguished by the feel of the skin, on the use of this medicine, it must be fuspended, till this falutary evacuation is reftored by the above remedies.

These antimonials should not be given should grofsly powdered, as is generally practifed, be finely but ground very fine; otherwise little powder'd. of them will pass into the blood, but will fometimes, when given in large dofes, fcour themfelves off without entering the mafs at all.

When horfes are filed in the stable, Whathercare should be taken that the herbage bage the is young, tender, and full of fap; whe futeft for foiling. ther it be green barley, tares, clover, or any thing elfe the feafon produces, and that it be cut fresh once every day at least, if not oftener; for, when herbage 18 old and fibrous, it is divefted of the fap, has a tendency to putrefaction, and frequently caufes obstructions in the bowels; which are fometimes of bad confequence, unlefs an evacuation is procured, when the dung has often appeared not unlike what has laid a confiderable time, mellowing and rotting on a dunghill.

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When

General Directions in

Cautions When horfes lofe their flefh much in in foiling. foiling, they fhould in time be taken to a more folid diet; for it is not in foiling as in grazing, where, though a horfe lofes his flefh at firft, yet, after the grafs has purged him, he foon grows fat.

Horfes No general directions can be laid down fhould be for the *feeding* of horfes, but this; that fed inproportion to theirwork, be well fed; others fhould be fed in proportion to their exercife, and not kept to certain regular feeds, whether they work or not.

How to prevent their cribbiting.

Young horfes, who have not done growing, mult be indulged more in their feeding than those come to their maturity; but if their exercise is so little, as to make it necessary to abridge their allowance of hay, a little fresh straw should constantly be put in their racks, to prevent their nibling the manger, and turning cribbiters: they should also sometimes be strapped back, in order to cure them of this habit.

Exercife recommended. A due degree of exercife is of the utmost confequence to maintain a horfe in perfect health and vigour. But let it be observed, that a horfe is never to be rode hard, or put

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put on any violent exercise, when he has a belly full of meat or water : move him gently at first, and he will naturally mend his pace.

It is obvious to every one, what care should be taken of a horse after violent exercife, that he cools not too faft, and drinks no cold water, &c. for which reafon we shall wave particular directions.

The usual method of feeding coach- Bran and horfes on the road, by giving them bran beans, with a few beans before their oats, is not when proamils; because their work makes them per. perfpire fo much, that without fomething of this kind, they would be faint, or apt to grow coffive. The bran keeps their body open, and the beans prevent its fcouring, which horfes of weak bowels are fubject to on a journey.

Moft horfes fed for fale, have the in- Horfes terflices of their mulcles fo filled with fat, newly that their true fhapes are hardly known, from the For which reason, a horse, just come dealers, out of the dealer's hands, fhould at first how to be be gently used. He ought to lose blood, managed. and have his diet lowered, though not too much : walking exercise is most proper at first, two hours in a day; in a week or

General Directions, &c.

or fortnight two hours at a time, twice a day; after this ufage for a month, bleed him again, and give him two or three times a week fealded bran, which will prepare him for purging phyfick, that may now be given fafely, and repeated at the ufual intervals.

Obfervation. When a horfe comes out of a dealer's hands his cloathing muft be abated by degrees, and care taken to put him in a moderately warm ftable : otherwife the fudden transition would be attended with the worft confequences.

Signs of healthand amendment.

It is a certain proof of amendment in a horfe's confliction, when his craving 'after water abates; for while his blood is thick or fizy, his mouth is generally dry and clammy, and his fecretions imperfect. Another good fign is, when on exercife his fweating abates, and does not turn white like foap lather, but runs off like water: this is in general a fure fign that the blood and juices are attennuated and amended: for while they continue in their vifcid ftate, the fweats of courfe will be frothy and clammy,

CHAP.

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CHAP. II.

Some General Directions in regard to Bleeding, Purging, &c.

H ORSES who ftand much in ftable, Directions and are full fed, require bleeding concernnow and then, effectially when their eyes ing bleedlook heavy, dull, red, and inflamed; as alfo, when they feel hotter than ufual, and mangle their hay.

Young horfes fhould be bled when they In what are fhedding their teeth, as it takes off cafes ufethofe feverifh heats they are fubject to at thofe times. But the cafes that chiefly require bleeding, are colds, fevers of most kinds, falls, bruifes, hurts of the eyes, ftrains, and all inflammatory diforders, \mathfrak{Sc} .

It is right to bleed a horfe, when he begins to grow flefhy at grafs, or at any other time when he looks heavy: and it is generally proper to bleed before purging.

Let your horfe always be bled by mea- To bleed fure, that you may know what quantity measure. you take away: two or three quarts is always

Directions in regard to

always enough at one time; when you repeat it, allow for the diforder, and the horfe's conftitution.

Observation. Let the blood, when cold, be carefully examined, both as to colour and confifence, whether black, florid, fizy, &c.

Cautions concerning purging.

Purging is often neceffary in groß full horfes, in some diforders of the ftomach, liver, &c. but should be directed with caution. Before a purge is given to any horfe, it is neceffary fome preparation fhould be made for it, in order to render the operation more fafe and efficacious ; thus a horfe that is full of flefh fhould first be bled, and at the same time have his diet lowered for a week, efpecially those that have been pampered for fale; feveral mathes of fealded bran thould alfo previoully be given, in order to open the bowels, and unload them of any indurated excrement; which fometimes proves an obftacle to the working of the phyfick, by creating great ficknefs and griping.

Remarkable obfervations.

Let it be remembered that a horfe is purged with difficulty; that the phyfick generally lies, twenty-four hours in the guts before it works; and that the tract of bowels it has to pass through, is above thirty Bleeding, Purging, &c. thirty yards: and lying horizontally, confequently refinous and other improper drugs may, and often do, by their violent irritations, occafion exceflive gripings and cold fweats, fhave off the very mucus or lining of the guts, and bring on inflammations, which often terminate in mortifications, and death.

It is remarkable too, that the ftomach and guts of a horfe are but thin, compared to fome other animals of the fame bulk, and therefore must be more liable to inflammation and irritation,

Horfes kept much in the ftable, who Purges, have not the proper benefit of air and when proexercife, in proportion to their food, perfhould in Spring have a mild purge or two, after a previous preparation by bleeding, lowering their diet, and fcalded mathes.

Horfes that fall off their ftomach, whether it proceeds from too full feeding, or require it ingendering crudities and indigefted matter, fhould have a mild purge or two.

Horfes of a hot temperament will not bear the common aloctic purges; their phyfick therefore fhould be mild and cooling.

Purging

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Directions in regard to

Purging is always found very beneficial in flubborn dry coughs; but mild mercurials joined with them, make them yet more efficacious.

Horfes that have those forts of lameneffes, that are faid to proceed from bumours flying about (which are of the rbeumatic kind, and in young horfes proceed from fizy blood, and occasion lameness in every limb) require frequent purging; and should also have, between whiles, medicines that attenuate and thin the fluids.

Horfes of a watery conflictution, who are fubject to fwelled legs, that run a fharp briny ichor, cannot have the caufes removed any ways fo effectually as by purging.

The first purge you give to a horse should be mild, in order to know his constitution.

Some miftakes concerning purges.

It is a miftaken notion, that if a properprepared purge does not work to expectation, the horfe will be injured by it; for though it does not pass by ftool, its operation may be more efficacious, as an alterative, to purify the blood, and it Bleeding, Purging, &c. it may pass by urine, or other fecretions.

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Purging medicines are very fuccefsfully given in finall quantities, mixed with others; and act then as alteratives.

If mercurial phyfick is given, care Cautions. fhould be taken that it be well prepared; and warmer cloathing, and greater circumspection is then required.

Purges should be given early in the The manmorning upon an empty stomach: about nerof givthree or four hours after the horse has ing perges taken it, he should have a feed of scalded and workbran; and a lock or two of hay may ing off. then be put into his rack. The same day give him two more masses; but should he refuse warm meat, he may be allowed taw bran.

All his water fhould be milk warm, and have a handful of bran fqueezed in it; but if he refules to drink white water, give it him without bran.

Early the next morning, give him another mafh; but, if he refules to eat it, give him as much warm water as he will drink : let him be properly cloathed, and rode gently about, This should be done two

. Directions in regard to

two or three times a day, unlefs he purges violently, and then once or twice will be fufficient: at night give him a feed of oats mixid with bran.

During the working, a horfe fhould drink plentifully ; but, if he will not drink warm water, he must be indulged with cold, rather than not drink at all.

We shall here infert some general forms of purges.

purges.

Forms of TAKE Succotrine aloes ten drams, jalap and falt of tartar each two drams, grated ginger one dram, oil of cloves thirty drops; make them into a ball with fyrup of buckthorn.

Or,

TAKE aloes and cream of tartar each one ounce, jalap two drams, cloves powdered one dram, fyrup of buckthorn a fufficient quantity.

Or,

The following, which has an eftablished character among fportfmen.

TAKE aloes, from ten drams to an ounce and a half, myrrh and ginger Bleeding, Purging, Sc.

ger powdered each half an ounce, faffron and oil of anifeed each half a dram. 17

Mr. Gibson recommends the following.

TAKE Succotrine aloes ten drams, myrrh finely powdered half an ounce, faffron and frefh jalap in powder, of each a dram; make them into a ftiff ball with fyrup of rofes, then add a fmall fpoonful of rectified oil of amber.

The Succotrine aloes fhould always be Obfervapreferred to the Barbadoes, or Plantation tion. aloes, though the latter may be given to robuft ftrong horfes, but even then fhould always be prepared with the falt, or cream of tartar; which by opening its parts, prevent its adhefion to the coats of the ftomach and bowels; from whence horrid gripings, and even death itfelf, has often enfued. This caution is well worth remarking, as many a horfe hath fell a facrifice to the neglect of it.

Half an ounce of Caftile foap, to a horfe of a groß conftitution, may be added to any of the above; and the proportions may be increased for ftrong horfes. C When

Directions in regard to

Howmercurials fhould be given.

When mercurial phyfic is intended, give two drams of calomel over night, mixed up with half an ounce of a diapente, and a little honey, and the purging ball the next morning.

The following, when it can be afforded, is a very gentle and effectual purge, particularly for fine delicate horfes; and if prepared with the Indian rhubarb, will not be expensive.

A mild purge. TAKE of the fineft Succotrine aloes one ounce, rhubarb powdered half an ounce or fix drams, ginger grated one dram; make into a ball, with fyrup of rofes.

The following purging drink may be given with the utmost fafety : it may be quickened or made stronger, by adding an ounce more of sena, or two drams of jalap.

A cooling purging erink. TAKE fena two ounces, infufe it in a pint of boiling water two hours, with three drams of falt of tartar; pour off, and diffolve in it four ounces of Glauber falts, and two or three of cream of tartar.

This

Bleeding, Purging, Sc.

This laft phyfic is cooling, eafy, and Obfervaquick in its operation, and greatly preferable in all inflammatory cafes to any other purge, as it paffes into the blood, and operates also by urine.

When horfes lofe their appetites after Remedies purging, it is neceffary to give them a for overwarm ftomach drink, made of an infufion of camomile flowers, anifeeds, and faffron : or the cordial ball may be given for that purpofe.

Should the purging continue too long, give an ounce of diafcordium in a pint of Port wine, and repeat it once in twelve hours, if the purging continues. Plenty of gum Arabic water thould alfo be given, and in cafe of violent gripes, fat broth glyfters, or tripe liquor, thould be often thrown up, with an hundred drops of laudanum in each.

The Arabic folution may be thus prepared.

TAKE of gum Arabic and tragacanth Drink for of each four ounces, juniper berries gripes. and caraway feeds of each an ounce, cloves bruifed half an ounce; fimmer gently in a gallon of water, till C_2 the

Directions in regard to

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and a surrent of

the gums are diffolved: give a quart at a time in half a pail of water: but if he won't take it freely this way, give it him often in a horn.

When a horfe fwells. When a purge does not work, but makes the horfe fwell and refufe his food and water; which is fometimes the effect of bad drugs, or catching cold; warm diuretics are the only remedy; of which the following are recommended.

A diuretic drink. TAKE a pint of white wine, nitre one ounce, mix with it a dram of camphor diffolved in a little rectified fpirit of wine; then add two drams of oil of juniper, and the fame quantity of unrectified oil of amber, and four ounces of honey, or fyrup of marfh-mallows.

Or,

A diureticball. TAKE Venice turpentine one ounce, incorporate with the yolk of an egg: nitre one ounce: then add juniper berries, and frefh anifeeds pounded, each half an ounce, unrectified oil of amber two drams; make into a ball with fyrup of marfh-mallows.

Observation. When a horse fivells much with phytion. fick, do not fuffer him to be rode about till

Bleeding, Purging, &c. till he has fome vent, but rather lead him gently in hand, till fome evacuation is obtained.

As it is obferved, that horfes more Horfes willingly take fweet and palatable things, drinks to than those that are bitter and of an ill be made tafte, care should be taken that the latter palatable. are given in balls, and that their drinks are always contrived to be as little naufe-Ous as poffible, and fweetened either with honey or liquorice. Those that are pre-Pared with the gross powders, are by no means fo agreeable to a horfe, as those made by intufion : as the former often clam the mouth, irritate the membranes about the palate and throat, and frequently occafion the cough they are intended to prevent.

Balls fhould be of an oval fhape, and not Horfes exceed the fize of a pullet's egg : when balls fould not the dofe is large, it fhould be divided into be too two; and they should be dipt in oil, to large. make them flip down the eafier.

As we have given fome general forms of purges, we shall observe the fame rule in regard to glyfters, with fome few cautitions and remarks.

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Let

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Directions in regard to

Horfes fhould be raked before their glyfters.

Let it be obferved then, that before the administering emollient glyfters in coffive diforders, a fmall hand well oiled fhould be passed up the horfe's fundament, in order to bring away any hardened dung, which otherwise would be an obstacle to the glyfter's passed.

Apipeand A bag and pipe of a proper form, is bag preferable to be preferred to a fyringe, which a fyringe. throws up the glyfter with fo much force, that it often furprizes a horfe, and makes him reject it as fast as it goes in : whereas the liquor, when preffed gently from the bag, gives him no furprize or uneafinefs, but paffes eafily up into the bowels, where it will fometimes remain a long time, and be extremely uletul, by cooling and relaxing them; and will fometimes incorporate fo with the dung, as not eafily to be diffinguished from the other contents of the guts. These emollient glyfters are extremely ferviceable in most fevers, and greatly preferable to purging ones ; which in general are too pungent, and ftimulate too much. especially if aloes are a part of the compolition.

Natritive glyfters.

Nutritive glyfters are very neceffary, and often fave a horfe from ftarving, when his Bleeding, Purging, &c. his jaws are fo locked up by convultions, that nothing can be conveyed by the mouth.

They should not exceed a quart or Their three pints at a time, but be often re-quantity. peated: nor should they be too fat; but made of sheeps heads, trotters or any other meat broth, milk pottage, rice-milk strained, and many other such nourishing things. For an emollient glyster, take the following.

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TAKE marsh-mallows and chamomile An emolflowers each a large handful, bay-lient glyfberries and fweet fennel feeds bruif- ter. ed, each an ounce : boil in a gallon of water to three quarts, pour off into a pan, and diffolve it in half a pound of treacle, and a pint of linfeed oil, or any common oil.

To make it more laxative, add four ounces of lenitive electuary, or the fame quantity of cream of tartar, or common purging falts.

TAKE two or three handfuls of marfh-Apurging mallows, fena one ounce, bitter glyfter. apple half an ounce, bay-berries and anifeed bruifed, each an ounce, falt of tartar half an ounce; boil a C 4 quarter

Directions in regard to, &c.

quarter of an hour in three quarts of water, pour off, and add four ounces of fyrup of buckthorn, and half a pint of oil.

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This glyfter will purge a horfe pretty tion. brifkly, and may be given fuccefsfully, when an immediate difcharge is wanting; efpecially in fome fevers with inflamed lungs; or other diforders, which require speedy relief.

But it is necessary to caution against a Caution. folution of courfe aloes for this purpofe, as it has been found to gripe horfes violently, and excite feverifh and fometimes convulfive fymptoms; and indeed all pungent and ftimulating medicines, as the ftronger purgatives generally are, fhould be given in this form with great

Obfervation.

caution.

But the generality of emollient glyfters, may be prepared with much lefs trouble ; as two quarts of water-gruel, with half a pound of treacle, a pint of oil, and a handful of common falt, will as effectually anfwer every purpofe. The following is a reftringent glyfter.

TAKE

OF COLDS.

TAKE pomegranate bark, or oak A reftrinbark, two ounces, red rofe leaves, gent glyffrefh or dry, a handful, balauftines an ounce; boil in two quarts of water, till one is near confumed; pour off and diffolve in it four ounces of diafcordium; to which may be added a pint of Port wine.

This will answer in all common cafes, where reftringents are neceffary, but fhould never be given in larger quantities; for the longer glyfters of this kind lie in the bowels, the more efficacious they are.

CHAP. III.

Of COLDS.

A S the fource of the generality of Cold the fevers, coughs, and many other first fource diforders, that both men and horfes are of most fubject to, arife originally from taking cold; I have made that diforder the fubject of my first chapter, as introductory to the fubfequent ones, to *Fevers*, *Pleurily*, *Cougbs*, &cc.

The

Perspiramon.

The doctrine of perspiration (which one could wish in general better underftood, becaufe it is to principally concerned in most acute diforders) is now fo evidently demonstrable, that I am almost tempted to explain it, fo far at leaft, as would give my readers a general idea thereof, and of the confequence of its fuppreffion, or being checked : but as it would be breaking through the limits we have prescribed ourfelves, must defire they would have recourfe, for farther fatisfaction on that head, to Chambers's Dittionary, Art. Perspiration.

Taking

By taking cold then, we mean that the coldwhat. pores and outlets of the fkin (which in a natural healthy ftate of body are continually breathing out a fine fluid, like the fleam arifing from hot water, or finoke from fire) are fo far fhut up, that these steams, or perspirable matter, not having a free paffage through them, are hindered from going off in the ufual manner, the confequence of which is. their recoiling on the blood, vitiating its quality, overfilling the veffels, and affecting the head, glands or kernels of the neck and throat, the lungs and other principal parts.

To

OF COLDS.

To enumerate the various caufes of The caucolds, would be endlefs; the molt ufual fes. are, riding horfes till they are hot, and fuffering them to ftand in that condition, where the air is cold and piercing; removing a horfe from a hot ftable to a cold one, and too fuddenly changing his cloathing; hence it is, that horfes often catch fuch fevere colds, after they come out of dealers hands; and by not being carefully rubbed down, when they come in hot, off journeys.

The figns of a horfe's catching cold The fymare, a cough, heavinefs and dulnefs, ptoms. which affect him, more or lefs, in proportion to the feverity of it, the eyes are fometimes moift and watery, the kernels about the ears and under the jaws fwell, the nofe gleets, and he rattles in his breathing; and when the cold is violent, the horfe will be feverifh, his flanks work, and he will both loath his hot meat, and refufe his water. When thefe laft fymptoms are attended with a flimy mouth, ears and feet cold, and a great inward forenefs, there is danger of a bad fever.

But when the horfe coughs ftrong, Good fnorts after it, is but little off his ftomach, fymppricks up his ears, and moves brifkly in toms. his 28

his fall, dungs and fales freely, his fkin feels kindly, and his coat does not flare, he is in no danger, and there will be no occafion for medicines of any kind; but you fhall bleed him about two quarts, keep him warm, and give him feeds of fealded bran, with as much warm water as he will drink, in order to dilute his blood.

The cure. If the diforder should increase, the horfe feel hot, and refufe his meat, bleed him, if a ftrong one, two quarts more; and if you are not fatisfied, without giving medicines, avoid, as you would poifon, a farrier's drench (which is generally compoled of fome hot, nauleous powders, given in a quantity of ale; which too often increales the fever, by overheating the blood, and palls the horfe's ftomach by its loathfomenefs.) And inftead of it, infuse two ounces of anifeeds, with a dram of faffron, in a pint and a half of boiling water; pour off the clear, and diffolve it in four ounces of honey; to which may be added four fpoonfuls of fallad oil: this drink may be given every night; or one of the following balls, provided there is no fever; in which cafe, it always will be more eligible to give two, ot three ounces of nitre, or falt prunella every day in his feeds.

feeds, or water, till it is removed; this method of treating colds we have explained, in our animadverfions on nitre, and the great efficacy of this medicine; but fhould the horfe be inclined to coftivenefs, remember that his body fhould be kept open by emollient glyflers, or cream of tartar diffolved in his water, to the quantity of three or four ounces a day.

TAKE of the fresh powders of ani- The pecfeed, elicampane, caraway, liquorice, turmerick, and flower of brimftone, each three ounces, juice of liquorice four ounces, disfolved in a fufficient quantity of mountain, faffron powdered half an ounce, fallad oil and honey, each half a pound, oil of anifeed one ounce : mix together with wheat flower enough to make them into a paste.

Or, Take the following from Dr.' BRACKEN.

The cor-

TAKE anifeed, caraway feed, and dial ball. greater cardamoms, finely powdered, of each one ounce, flower of brimftone two ounces, turmerick in fine powder one ounce and a half, faffron two drams, Spanifh 4 juice

OF COLDS.

juice diffolved in water, two ounces, oil of anifeed half an ounce, liquorice-powder one ounce and a half, wheat-flower, a fufficient quantity, to make into a stiff paste, by beating all the ingredients well in a mortar.

Obfervations on them.

Thefe balls confift of warm opening ingredients; and given in fmall quantities, about the fize of a pullet's egg, will encourage a free perspiration; but in cafe of a fever, should be cautiously continued. They are much more efficacious, and in all cafes fuperior to the farriers drenches, if diffolved in a pint of warm ale.

General obfervations.

This fimple method, with good nurfing and hot mashes, warm water and cloathing, efpecially about the head and throat, which promotes the running at the noftrils, will anfwer the most fudden colds; and when the horfe feeds heartily, and fnorts after coughing, moderate exercife every day will haften his recovery.

ones.

Particular The fcalded bran should be put hot into the manger, for the fteams conduce not a little to promote a running at the nole, which is often very plentiful, and greatly

OF FEVERS.

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greatly forwards the cure. His manger fhould be kept clean, by filling it with ftraw; his hay well fhook and fprinkled with water, and given in fmall quantities: for his breathing, at this time, taints the hay, and then he will not touch it.

To a horfe loaded with flefh, a rowel may fometimes be neceffary; as may alfo a gentle purge or two, to fome, when the diffemper is gone off.

CHAP. IV.

Of FEVERS in general.

A S I purposely avoid giving descriptions of diseases, or so much as gueffing at the causes within, which bring them about, I shall immediately enter upon the symptoms which denote a simple fever present. These are great results. The symness, the horse ranging from one end of ptoms of his rack to the other; his stanks beat; sever. his eyes are red and inflamed; his tongue parched and dry; his breath is hot, and simells strong; he loses his appetite, and nibbles his hay, but don't chew it, and is frequently simelling to the ground; the whole whole body is hotter than ordinary (though not parched, as in fome inflammatory diforders ;) he dungs often, little at a time, ufually hard, and in finall bits ; he fometimes stales with difficulty, and his urine is high coloured; his flanks beat, and he feems to thirft, but drinks little at a time, and often ; his pulfe beats full and hard, to fifty ftrokes and upwards in a minute.

thod cure.

The me- The first intention of cure is bleeding, of to the quantity of two or three quarts, if the horfe is ftrong, and in good condition; then give him a pint of the following drink four times a day; or an ounce of nitre, mixed up into a ball with honey, may be given thrice a day, inftead of the drink, and washed down with three or four horns of any finall liquor.

The fever balls and drink.

TAKE of baum, fage, and camomile flowers, each a handful, liquorice-root fliced half an ounce, fal. prunel, or nitre, three ounces; infuse in two quarts of boiling water ; when cold, ftrain off, and fqueeze into it the juice of two or three lemons, and fweeten with honey.

A remark. As the chief ingredient to be depended on in this drink is the nitre, it may perhaps haps be as well given in water alone; but as a horfe's ftomach is foon palled, and he requires palatable medicines, the other ingredients may in that refpect have their ufe. Soleyfel for this purpofe advifes two ounces of falt of tartar, and one of fal armoniac to be diffolved in two quarts of water, and mixed with a pail of common water, adding a handful of bran or barley flower to qualify the unpleafant tafte : this may be given every day, and is an ufeful medicine.

The following also may be given for this purpose.

T A K E Ruffia pearl-afhes one ounce, A fever diftilled vinegar one pint, fpring drink, or water two pints, honey four ounces: neutral give a pint three or four times a ^{mixture}. day.

This neutral mixture, and the nitre drink above, may be taken alternately; they are both efficacious remedies, and in fome places may properly enough be joined with the camphor drink, p. 41.

His diet fhould be fealded bran, given The diet in fmall quantities; which, if he refufes, in fevers. let him have dry bran fprinkled with water: put a handful of picked hay into D the the rack, which a horfe will often eat, when he will touch nothing elfe: his water need not be much warmed, but fhould be given often, and in fmall quantities: his cloathing fhould be moderate, too much heat and weight on a horfe being improper in a fever; which fcarce ever goes off in critical fweats (as those in the human body terminate) but by flrong perspiration.

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If in a day or two he begins to eat his bran, and pick a little hay, this method with good nurfing will anfwer; but if he refufes to feed, more blood fhould be taken away, and the drinks continued; to which may be added two or three drams of faffron, avoiding at this time all hotter medicines. The following glyfter fhould be given, which may be repeated every day, efpecially if his dung is knotty and dry.

The emollient glyfter, T A K E two handfuls of marfh-mallows, and one of camomile flowers; fennel-feed an ounce; boil in three quarts of water to two, ftrain off, and add four ounces of treacle, and a pint of linfeed oil, or any common oil.

Two

Two quarts of water-gruel, fat broth Remarks. or pot-liquor, with the treacle and oil, will answer this purpose; to which may be added a handful of falt. These fort of glysters are properer than those with purging ingredients.

The following opening drink is very effectual in these fevers, and may be given every other day, when the glysters should be omitted : but the nitre balls or drink may be continued, except on those days these are taken.

T A K E of cream of tartar and Glau-An openber falts, each four ounces; diffolve ing fever in barley-water, or any other liquor: drink. an ounce or two of lenitive electuary may be added, or a dram or two of powder of jalap, to quicken the operation in fome horfes.

Four ounces of Glauber falts, or cream Others for of tartar, with the fame quantity of leni- that purtive electuary, may be given for the fame pole purpole, if the former should not open the body fufficiently.

In four or five days the horfe gene- The figns rally begins to pick his hay, and has a of recofeeming relifh to food; though his flanks very. D 2 will will heave pretty much for a fortnight : yet the temper of his body, and return of appetite, fhew that nothing more is requifite to complete his recovery, than walking him abroad in the air, and allowing plenty of clean litter to reft him in the ftable.

Practical obfervations.

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This method of treating a fever is fimple, according to the laws of nature; and is confirmed by long experience, to be infinitely preferable to the hot method.

The intention here is to leffon the quantity of blood, promote the fecretions of urine and perfpiration, and cool and dilute the fluids in general.

An ufeful How far vinous cordials, ftrong beerreflection. drinks loaded with fiery powders, and fuch methods, are likely to answer these purposes, is submitted to the judicious observer; as also, whether adopting the cool one in its ftead is not as real an improvement in farriery as phyfick.

A compound fever.

There is another fort of fever that horfes are fubject to, of a more complicate and irregular nature than the former; which, if not properly treated, often proves fatal.

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The figns are a flow fever, with lan- The fymguifhing and great depreffions; the toms. horfe is fometimes inwardly hot, and outwardly cold; at other times hot all over, but not to any extreme; his eyes look moift and languid; he has a continual moisture in his mouth, which is the reafon he feldom cares to drink, and when he does, it is but little at a time. He feeds but little, and leaves off as foon as he has eat a mouthful or two; he moves his jaws in a feeble, loofe manner, with an unpleafant grating of his teeth; his body is commonly open; his dung foft and moift, but feldom greafy; his staling is often irregular, fometimes little, at other times profuse, feldom high-coloured, but rather pale, with little or no fediment.

When a horfe's appetite declines daily, till he refuses all meat, it is a bad fign. When the fever doth not diminish, or keep at a ftand, but increases, the case is then dangerous. But when it fenfibly abates, and his mouth grows drier, the grating of his teeth ceafes, his appetite mends, and he takes to lay down (which perhaps he has not done for a fortnight) these are promising figns. A horse in these tevers always runs at the nofe, but not D 3 the

the kindly white discharge, as in the breaking of a cold, but of a reddifh or greenish dusky colour, and of a confistence like glue, and flicks like turpentine to the hair on the infide of the noftrils: if this turns to a gleet of clear thin water, the horfe's hide keeps open, and he mends in his appetite; these are certain figns of recovery.

The farrier fhould fometimes be confulted.

The various and irregular fymptoms that attend this flow fever, require great fkill to direct the cure, and more knowledge of the fymptoms of horfes difeafes. than the generality of gentlemen are acquainted with. The experienced farrier fould therefore be confulted and attended to, in regard to the fymptoms; but very feldom as to the application of the remedy, which is generally above their comprehension; though it may be readily felected, by duly attending to the obfervations here inculcated.

The cure. First then, a moderate quantity of blood, not exceeding three pints, may be taken away, and repeated in proportion to his strength, fulnefs, inward forenefs, cough, or any tendency to inflammation. After this, the feverdrink, p. 32. may be given, with the addition of an ounce of fnake-root, and three

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three drams of faffron and camphor, diffolved first in a little spirit of wine; the quantity of the nitre may be lessend, and these increased, as the symptoms indicate.

The diet fhould be regular; no oats The diet. given, but fealded, or raw bran fprinkled; the best-flavoured hay should be given by handfuls, and often by hand, as the horse sometimes cannot list up his head to the rack.

As drinking is fo abfolutely neceffary Dilution to dilute the blood, if the horfe refufes to neceffary. drink freely of warm water or gruel, he must be indulged with having the chill only taken off, by standing in the stable; nor will any inconvenience ensue, but oftener an advantage : for the naufeous warmth of water, forced on horfes for a time, palls their stomachs, and takes away their appetites, which the cold water generally reftores.

Should the fever after this treatment When the increase, the horse feed little, stale often, fever inhis urine being thin and pale, and his creases. dung sometimes loose, and at other times hard; should the moisture in his mouth continue, his skin being sometimes dry, and at others moist, with his coat looking D 4 staring,

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ftaring, and furfeited. Upon these irregular fymptoms, which denote great danger, give the following balls, or drink; for in these cases there is no time to be loft.

The compound fever balls.

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TAKE of contrayerva-root, myrrh, and fnake-root powdered, each two drams, faffron one dram, mithridate or Venice treacle half an ounce; make into a ball with honey, which fhould be given twice or thrice a day, with two or three horns of an infufion of fnake-root, fweetened with honey; to a pint and a half of which may be added, half a pint of treacle water, or vinegar, which latter is a medicine of excellent ufe, in all kinds of inflammatory and putrid diforders, either external or internal.

Should thefe balls not prove fuccefsful, add to each a dram of camphor, and where it can be afforded, to a horfe of value, the fame quantity of caftor. Or, the following drink may be fubfituted in their ftead for fome days.

The fever drink. TAKE of contrayerva and fnake-root, of each two ounces, liquorice-root fliced one ounce, faffron two drams; 3 infufe

infuse in two quarts of boiling water clofe covered for two hours, ftrain off, and add half a pint of diffilled vinegar, four ounces of fpirit of wine, wherein half an ounce of camphor is diffolved, and two ounces of mithridate or Venice treacle; give a pint of this drink every four, fix, or eight hours.

A more fimple drink and perhaps full as efficacious may be thus prepared.

TAKE camphor one dram diffolved The camin rectified fpirit of wine one ounce, phor then gradually pour on a pint of di- drink. ftilled vinegar warmed, and give for two dofes. The quantity of camphor may be increased.

Should the horfe be coffive, recourfe Obfervamust be had to glysters, or the opening tion. drink : should he purge, take care not to fupprefs it, if moderate; but if, by continuance, the horfe grows feeble, add diafcordium to his drinks, inftead of the mithridate; if it increases, give more potent remedies.

Let it be remembered, that camphor is a very powerful and effectual medicine, in these kinds of putrid fevers; being both

both active and attenuating, and particularly calculated to promote the fecretions of urine and perfpiration : it has been long celebrated in malignant fevers, as it gives motion to flagnant humours, in the most distant parts, and promotes their expulsion by the common outlets; nitre may be advantageoufly joined with it in many cafes. These are the medicines that are chiefly to be depended on in putrid epidemic fevers, where the circulation is flow and languid, the blood and juices tending to coagulate, putrefy, and run into grumes.

Obfervation.

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A horfe thould drink plentifully to promote the operation of these medicines; but inftead of them to a horfe of fmall value, give an ounce of diapente, and half an ounce of mithridate, and one dram of camphor, with a ftrong infusion of rue, fcordium, and fnake root, in the manner as above directed.

Sympregarded.

Regard fhould alfo be had to his toms to be staling; which if in too great quantities, fo as manifeftly to deprefs his fpirits, fhould be controuled by proper reftrin-gents, or by preparing his drinks with lime-water. If, on the contrary, it happens that he is too remifs this way, and stales fo little as to occasion a fullnefs,

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nefs, and fwelling of the body and legs, recourfe may be had to the following, drink :

TAKE of falt prunel, or nitre, one Adrink to ounce; juniper berries, and Venice promote turpentine, of each half an ounce; urine. make into a ball with oil of amber.

Give him two or three of these balls, at proper intervals, with a decoction of marshmallows, fweetened with honey.

But if, notwithstanding he method we Badsymp-have laid down, a greenish or reddish tome in gleet is difcharged from his noftrils, with fevers. a frequent fneezing: if he continues to lofe his flefh and becomes hide bound; if he altogether forfakes his meat, and daily grows weaker : if he fwells about the joints, and his eyes look fixed and dead; if the kernels under his jaws fwell, and feel loofe; if his tail is raifed and quivers; if his breath fmells ftrong, and a purging enfues with a difcharge of foetid dark coloured matter : his cafe may then be looked on as desperate, and all future attempts to fave him will be fruitlefs.

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Signs of a The figns of a horfe's recovery are horfe's re- known by his hide's keeping open, and covery. his fkin feeling kindly; his ears and feet will be of a moderate warmth, and his eyes brifk and lively; his nofe grows clean and dry; his appetite mends, he lays down well, and both ftales and dungs regularly.

Cautions. Be careful not to overfeed him on his recovery; let his diet be light, feeds small, and increased by degrees, as he gets ftrength : for by overfeeding, horfes have frequent relapses, or great furfeits, which are always difficult of cure.

Practical obfervation.

This is the most fuccessful method of treating these irregular, malignant fevers ; where it is evident, by the various efforts nature makes to relieve herfelf, the wants affistance, and a spur to quicken her motions. For by the use of these warm medicines, a crifis, or termination of the difcafe, is quickened and promoted, as appears by the alteration made both in the urine and fkin; the former of which, by its thickness, shews figns of concoction, as it is called, or of a feparation of the feverish matter from the bood; and the latter, by its fmoothnefs and gloffinefs, proves that a regular and free perfpiration 15

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is obtained : thefe two fecretions are of fuch importance to the welfare of every animal, that the necessity of rectifying them, when difordered, is obvious from the confequences.

If this fever fhould be brought to inter- The cure mit, or prove of the intermitting kind, of an inimmediately after the fit is over, give an fever. ounce of Jefuit's bark, and repeat it every fix hours, till the horfe has taken four or fix ounces : fhould eruptions or fwellings appear, they ought to be encouraged, for they are good fymptoms at the decline of a fever, denote a termination of the diftemper, and that no farther medicines are Wanted.

The true reafons perhaps why fo many Reafons horfes mifcarry in fevers, are, that their why fo masters, or doctors, will not wait with many horpatience, and let nature have fair play : fevers. that they generally neglect bleeding fufficiently at first; and are constantly forcing down fugar fops, or other food in a horn, as if a horfe must be starved in a few days, if he did not eat : then they ply him twice or thrice a day with hot medicines and fpirituous drinks, which (excepting a very few cafes) must be extremely pernicious to a horfe, whofe diet is naturally fimple, and whole ftomach and blood, unaccuftomed to

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to fuch heating medicines, must be greatly injured, and without doubt are often inflamed by fuch treatment.

Of epidemic fevers.

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From the experience we lately had of the epidemic cold and fever among our horfes, and from the obfervations of others in the years 1732 and 1734, it evidently appeared that the fimpleft method of treatment fucceeded beft. Thus it is proper to bleed largely at first, to the quantity of three quarts, if the horfe is full and ftrong: and if it appears that his lungs are not relieved by it, but continue ftuffed and loaded, the bleeding fhould be repeated; and a rowel may be put in his cheft or belly.

Dilute the blood with plenty of water, A general method of or white drink; let his diet be warm bran mashes, and his hay sprinkled. Should cure. the fever rife, which will be known by the fymptoms above defcribed, give him an ounce of nitre thrice a day in his water, or made up in a ball with honey. Let his body be kept cool and open, with the opening drink, given twice or thrice a week; or an ounce of fait of tartar may be given every day, diffolved in his water for that purpofe, omitting then the nitre. After a week's treatment in this manner, the cordial ball may be given once

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once or twice a day, with an infufion of liquorice root fweetened with honey; to which may be added, when the phlegm is tough, or cough dry and hufky, a quarter of a pint of linfeed, or fallad oil, and the fame quantity of oxymel fquills.

As the kernels about the throat are Neceffary greatly fwelled in these cases, I need not cautions. mention the necessity of keeping the head and throat warmer than ordinary, to promote a freer perspiration, and forward the running at the nofe, which in a horfe answers the end of spitting, or expectoration in us: but the noie fhould never be fyringed, as is fometimes done, to promote this difcharge, which it often checks, and occafions bad fwellings in the neighbouring parts and glands : for let it be remembered thefe are critical runnings of nature's own appointments, which by art may foon be fruftrated. The following cooling purge is very proper to give at the decline of the diftemper, and may be repeated three or four times.

TAKE two ounces of fena; ani- A cooling feed and fennel bruifed, each half purge. an ounce; falt of tartar three drams; let them infufe two hours in a pint of boiling water; ftrain off, and diffolve

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diffolve in it three ounces of Glauber falt, and two of cream of tartar; give for a dofe in the morning.

This purge generally works before night very gently; and in fevers, and all inflammatory diforders, is infinitely preferable to any other phyfick.

The pulfe of horfes should be attended to,

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Before we close this chapter on fevers, it may be no improper hint to the curious, to take notice that a horfe's pulle should more particularly be attended to than is cuftomary, as a proper effimate may thereby be made both of the degree and violence of the fever prefent, by obferving the rapidity of the blood's motion, and the force that the heart and arteries labour with, to propel it round. The nigheft calculation that has been made of the quickness of the pulse in a healthy horse, is, that it beats about forty flrokes in a minute; fo that in proportion to the increafe above this number, the fever is rifing, and if farther increased to above fifty, the fever is very high.

How to calculate

How often the pulse beats in a minute may eafily be difcovered by meafuring the pulse. the time with a ftop watch, or minute fand-glafs, while your hand is laid on the horfe's near fide, or your fingers on any

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any artery; those which run up on each fide the neck, are generally to be feen beating as well as felt a little above the cheft; and one within fide each leg may be traced with the finger.

A due attention to the pulse is fo im- The portant an article, in order to form a knowproper judgment in fevers, that it would ledge of appear amazing it has fo much been neg- of great lected, if one did not recollect, that the importgenerality of farriers are fo egregioully ance. ignorant, that they have no manner of conception of the blood's circulation, nor in general have they ability enough to diftinguish the difference between an artery and a vein-With fuch pretty guardians do we intrust the healths and lives of the most valuable of animals !

For which reafon I cannot too much enforce the neceffity of this fludy and practice, as it is evident to every one with what fcrupulous attention the human pulfe is examined in every feverifh ftage, and how often the phyfician's judgment is chiefly directed by it. What difcoveries therefore might not be made by accurate obfervations on the pulfe of horses, both in regard to the quickness of the blood's motion, and to the hardness of the artery; from its difficult vibrations! F. It

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How ufe-It would be a fure guide to diffinguish an inflammatory fever with denfe fizy blood, from an irregular depreffed one; it would direct us more certainly when, and how often we fhould repeat bleeding in fevers, and other diforders, and when we should draw off blood previous to purging; or refrain from the latter, till by lowering the horfe's diet, his conftitution and blood is reduced to a proper temper; for in fuch as are replete and fanguine, without this caution, an inflammation of the bowels is foon brought on by the irritations fuch ftimulating medicines produce on veffels too turgid, and many a horfe's life has been facrificed to this neglect, but more particularly, fine, high fed ones. It would also be of use to difcover whether a horfe has recovered himself in due time, after having been drove hard, either on the chace, or race, Ge. This digreffion, it is hoped, will be more readily pardoned, as it is not a mere matter of speculation, but a practical remark.

CHAP.

CHAP. V.

Of a PLEURISY, and Inflammation of the Lungs, Ec

THESE diforders have fearce been Inflanis mentioned by any writer in far-diforders riery before Mr. Gibfon; who, by fre- are frequently examining the carcaffes of dead quent in horfes, has found them fubject to the dif- horles. ferent kinds of inflammations here defcribed.

He has often discovered matter on the Practical pleura (or membrane which lines the tion, cheft internally) making its way into the cheft; he has found in fome horfes the whole fubftance of the lungs black, and full of a gangreened water; and in others abscelles of various fizes; and, in short, inflammations in every bowel. He has frequently feen the blood veffels fo overloaded, that the blood has burit out of the fmaller veffels, and run over their carcaffes in many places, while the collar-maker was fleaing of their hides, and on cutting open the larger veffels, the blood has gulhed out as from a fountain, filling all the cavity of the body; an evi-E 2 dent

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dent proof that plentiful evacuation had been neglected. In order to diftinguifh thefe diforders from others, we fhall defcribe the fymptoms in Mr. Gibfon's own words.

The figns " A pleurify then, which is an inflamof a pleu- mation of the pleura, and a peripneunify, and mony, which is an inflammation of the lungs, have fymptoms very much alike; lungs. with this difference only, that in a pleurify a horfe fhews great uncafinefs, and fhifts about from place to place; the fever, which at firft is moderate, rifes fuddenly very high; in the beginning he often ftrives to lie down, but ftarts up again immediately, and frequently turns his head towards the affected fide, which has caufed many to miftake a pleuritic diforder for the gripes, this fign being

common to both, though with this difference :

How to "In the gripes a horfe frequently lies diffinguish down, and rolls; and when they are the gripes. violent, he will also have convulsive

twitches, his eyes being turned up, and his limbs firetched out, as if he was dying : his ears and feet fometimes occafionally hot, and fometimes as cold as ice; he falls into profufe fweats, and then into cold damps, firives often to ftale and dung,

Inflammation of the Lungs.

dung, but with great pain and difficulty; which fymptoms generally continue, till he has some relief. But in a pleurify, a horfe's ears and feet are always burninghot, his mouth parched and dry, his pulse hard and quick : even fometimes when he is nigh dying, his fever is continued and increasing; and though in the beginning he makes many motions to lie down, yet afterwards he runs back as far as his collar will permit, and makes not the least offer to change his posture, but ftands panting with fhort ftops, and a disposition to cough, till he has relief, or drops down."

In an inflammation of the lungs, feve- The fymral of the fymptoms are the fame, only ptoms of in the beginning he is lefs active, and lungs. never offers to lie down during the whole time of his fickness; his fever is ftrong, breathing difficult, and attended with a fhort cough; and whereas in a pleurify, a horfe's mouth is generally parched and dry, in an inflammation of the lungs, when a horfe's mouth is open, a ropy flime will run out in abundance; he gleets alfo at the nofe a reddifh or yellowifh water, which flicks like glue to the infide of his noftrils.

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In

Of a PLEURISY, and

In a pleurify, a horfe heaves and works violently at his flanks, with great reftlefnefs, and for the moft part his belly is tucked up; but in an inflammation of the lungs, he always flews fulnefs, and the working of his flanks is regular, except after drinking and fhifting his pofture; and his ears and feet are for the moft part cold, and often in damp fweats.

The cure of a pleurify, and inflamed lungs.

The cure of both thefe diforders is the fame. In the beginning a ftrong horfe may lofe three quarts of blood, the next day two quarts more; and if fymptoms do not abate, the bleedings muft be repeated, a quart at a time; for it is fpeedy, large, and quick repeated bleedings that are in thefe cafes chiefly to be depended on. But if a horfe has had any previous weaknefs, or is old, you muft bleed him in lefs quantities, and oftener. Mir. Gibfon recommends rowels on each fide the breaft, and one on the belly; and a bliftering ointment to be rubbed all over his brifket upon the foremoft ribs.

The medicines neceffary.

The diet and medicines fhould be both cooling, attenuating, relaxing, and diluting; and the horfe fhould have warm mafhes,

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malhes, and plenty of water, or gruel. The following balls may be given thrice a day.

TAKE of fperma-ceti and nitre, of pestoral each one ounce; oil of anifeed balls. thirty drops; with honey enough to make a ball.

A pint of barley-water, in which figs The regi-and liquorice-root have been boiled; and proshould be given after each ball; to which Per, the juice of lemons may be added; and if the lungs are greatly opprefied with a dry fhort cough, two or three horns, full of the decoction, may be given three or four times a day, with four spoonfuls of honey and linfeed oil. A ftrong decoction of the rattle-fnake root is alfo much recommended in pleuritic diforders, and may be given to the quantity of two quarts a day, fweetened with honey. It remarkably attenuates the blood, and disperses the inflammation, and in some parts is deemed a fpecifick for this complaint.

An emollient glyfter fhould be injected Glyfters once a day, to which may be added two necellary, ounces of nitre, or cream of tartar.

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In two or three days he will probably run at the nofe, and begin to feed; but fhould he not, and continue hot and fhortbreathed, you muft bleed him again, and give the following glyfter.

A purging glyfter.

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TAKE fena and marfh-mallows, of each two ounces; fennel and bayberries, each one ounce; boil in five pints of water to two quarts, pour off the clear, and add four ounces of purging falts, two or three of fyrup of buckthorn, and half a pint of linfeed, or any common oil.

If by thefe means he grows cooler, and his pain moderates, repeat the glyfter the next day, unlefs it worked too much; then intermit a day; and when he comes to eat fealded bran and picked hay, leave off the balls, and continue only the decoction, with now and then a glyfter.

Obfervation. But let it be obferved, that a horfe feldom gets the better of thefe diforders, unlefs he has relief in a few days; for if the inflammation is not checked in that time, it ufually terminates in a gangrene, Inflammation of the Lungs. grene, or collection of matter, which for want of expectoration foon fuffocates him.

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But as pleuritic diforders are apt to Thehorleave a taint on the lungs, great care fe's diet fhould be taken of the horfe's exercife and and exerfeeding, which fhould be light and open cife fhould atfor two or three weeks. Thus a quartern tended to. of bran fcalded, with a fpoonful of honey and flower of brimftone, may be given every day, with two or three finall feeds of oats fprinkled with chamber lye. Inftead of the bran, for a change, give about a quart of barley fealded in a double infusion of hot water, that it may be foftened, and the water given to drink. His exercife should be gradual, in an open air and fair weather; and when his ftrength is recovered, a gentle purge or two should be given; that of rhubarb, when it can be afforded, is beft, or the purging drink already recommended for this purpofe.

There is also an external pleurify, or An exterinflammation of the muscles, between the nal pleuribs, which when not properly treated, rify. proves the foundation of that diforder, Cheftfounder, called the *cheft-founder*: for if the inflammation is not difperfed in time, and the viscid blood and juices fo attenuated by

Of a PLEURISY, &c.

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by internal medicines, that a free circulation is obtained; fuch a ftiffnels and inactivity will remain on these parts as will not easily be removed, and which is generally known by the name of *cheft-founder*.

- Thefigns. The figns of this inflammation, or external pleurify, are a ftiffnefs of the body, fhoulders, and fore-legs; attended fometimes with a fhort dry cough, and a fkrinking when handled in those parts.
- The cure. Bleeding, foft pectorals, attenuants, and gentle purges, are the internal remedies; and externally the parts affected may be bathed with equal parts of fpirit of fal armoniac, and ointment of marfhmallows, or oil of camomile.

Obfervation. Thefe outward inflammations frequently fall into the infide of the fore-leg, and fometimes near the fhoulder; forming abfceffes, which terminate the diforder.

The dia-The membrane which feparates the phragm lungs, and more particularly the diaand other phragm, or midriff, is often alfo inflamparts of phragm, or midriff, is often alfo inflamthe cheft ed; which is fearce to be diffinguifhed fubject to from the pleurify, only in this, that when inflammathe midriff is greatly inflamed, the horfe tion. will

Of a COUGH, Sc.

will fometimes be jaw-fet, and his mouth fo much closed, that nothing can be got in : but the method of cure is the fame.

CHAP. IV.

Of a COUGH, and ASTHMA.

THE confequence often of the pre- The cau-ceding diforders injudiciously treat- fes of a ed, are fettled habitual coughs; which fettled frequently degenerate into afthmas, and cough. broken-wind.

Various are the caufes affigned for this last diforder, which, as merely conjectu-ral, we shall wave ; but the appearances on the diffection of broken-winded horfes, will be taken notice of in the proper place.

Nothing has more perplexed practi- Coughsto tioners than the cure of fettled coughs; be diftinthe caufe of which, perhaps, has been guilhed. their want of attention to the different fymptoms which diftinguish one cough from another : for without strict obfervance

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fervance thereof, it is impossible to find out, the true method of cure.

Obfervation.

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Thus if a horfe's cough is of long flanding, attended with lofs of appetite, wafting of flefh, and weaknefs, it denotes a confumption; and that the lungs are full of knotty, hard fubftances, called tubercles, which have often been diffeovered on diffection. *Vide* Confumption.

The figns The following figns denote when the of a moift cough proceeds from phlegm, and flimy cough. matter, that ftop up the veffels of the lungs.

> The horfe's flanks have a fudden quick motion; he breathes thick, but not with his noftrils open, like a horfe in a fever, or that is broken-winded : his cough is fometimes dry and hufky, fometimes moift, before which he wheezes, rattles in the throat, and fometimes throws out of his note and mouth great gobs of white phlegm, especially after drinking, or when he begins or ends his exercife, which discharge commonly gives great relief. Some fuch horfes wheeze and rattle to fuch a degree, and are fo thick-winded, that they can fcarce move on, till they have been out fome time in the air; though

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though then they will perform beyond expectation.

Thefe are properly afthmatic cafes, and ought to be diftinguifhed in their fymptoms from that purfiveness and thick windedness we fee in fome horfes, occafioned by too full, or foul feeding, want of due exercise, or their being taken up from winter's grass. But these two last cases are easily cured by proper diet and exercise; the one by lowering his keeping, and the other by increasing it.

The above affimatic cafe proves often very obfinate; but, if it happens to a young horfe, and the cough is not of long flanding, it is greatly relieved, if not totally cured by the following method.

If the horfe is full of flefh, bleed him The cure. plentifully; if low in flefh, more fparingly; which may occafionally be repeated, on very great opprefiions, and difficulty of breathing, in proportionate quantities.

As mercurial medicines are found te-Mercurimarkably ufeful in thefe cafes, give a als recommercurial ball (with two drams of calo-mended. mel)

Of a COUGH, and

mel) over night, and a common purge the next morning : or the following, which is much recommended by Mr. Gibfon.

An alterative purge TAKE gum galbanum, Ammoniacum, and affa fœtida, of each two drams; fine aloes one ounce, faffron one dram, oil of anifeeds two drams, oil of amber one dram: with honey enough to form into a ball.

They may be repeated at proper intervals, with the ufual cautions. In the intermediate days, and for fome time after, one of the following balls may be given every morning.

Balls for an obftinate cough.

TAKE cinabar of antimony, finely levigated fix ounces: gum Ammoniacum, galbanum, and affa fœtida, of each two ounces : garlic four ounces, faffron half an ounce : make into a paste for balls, with a proper quantity of honey.

Remarks Thefe balls are extremely well calcuon them. lated for this purpose; but if they are thought too expensive, the cordial ball may be given, with an eighth part of powdered

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powdered fquills and Barbadoes tar; or equal quantities of the above, and cordial ball may be beat up together ; and where they can be afforded, balfam of Peru, balfam of fulphur, and flowers of Benjamin, would undoubtedly, added to the cordial ball, make it a more efficacious medicine in cafes of this fort, as thus :

TAKE of the pectoral or cordial ball An efficaone pound, ballam of Peru half an cious ball ounce, balfam of fulphur anifated for a cough. an ounce, honey as much as is fufficient to form them into a paste; give the fize of a pigeon's egg every morning.

Exercife in a free open air is very fer- Exercife viceable, and the diet should be mode- and diet rate. Horfes fubject to any inward op- particuprefions of the lungs, fhould never be larly recomfuffered to have a belly full; that is, they mended. fhould never be permitted fo to diftend their ftomach with meat or water, as to prefs against the midriff; which of courfe would hinder respiration. Their hay should even be abridged, given in small quantities, and fprinkled with water; and their ufual allowance both of corn and water, fhould be divided into feveral portions : 4

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Of a COUGH, and

portions: by fuch a regulation in diet, horfes may be fo recovered as to do great fervice; and in all diforders of the lungs it is what fhould principally be attended to.

The following are the fymptoms of a dry cough, or afthma.

The figns of a dry cough or afthma.

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The horfe afflicted with this cough, eats heartily, hunts, and goes through his bufinefs with alacrity, appears well coated, and has all the figns of perfect health; yet he fhall cough at particular times almost inceffantly, without throwing up any thing, except that the violence of the cough will caufe a little clear water to diftil from his nofe. Though this cough is not periodical, yet fome of thefe horfes cough most in a morning, after drinking.

A nervous cough, what. This may properly be filed a nervous afthma in a horfe; as probably it chiefly affects the nerves in the membranous parts of the lungs and midriff; and is a cafe very doubtful, at leaft, if not incurable: but when the horfe is young, the following method may be fuccelsful.

Take

Take away first a moderate quantity The cure. of blood; then give him two drams of calomel, mixed up with an ounce of diapente, for two nights; and the next morning a purging ball. Keep him well cloathed and littered, and feed him with fcalded bran and warm water.

Once in eight or ten days this purge may be repeated, with one mercurial ball only, given over-night.

The following balls may then be taken, one every day, about the fize of a pullet's egg, the horfe fafting two hours afterwards; and fhould be continued two months, or longer, to be of real fervice.

TAKE native cinnabar, or cinna-Balls for bar of antimony, half a pound; an obfigum guaiacum four ounces; myrrh, nate dry and gum Ammoniac, of each two ounces; Venice foap half a pound: the cinnabar must be finely levigated, as before observed, and the whole mixed up with honey, or oxymel fquills.

F

Of a COUGH, and

The following also will be found an ufeful remedy in obftinate dry coughs.

TAKE gum Ammoniacum, fquills, and Venice foap, of each four ounces; balfam of fulphur with anifeeds one ounce; beat up into a mafs, and give as the former.

Obferva-

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These mercurial and ponderous medicines are well adapted to open obstructions in the lungs, and prevent those little knots, or tubercles, which fo frequently ulcerate, and lay the foundation of an incurable malady, or confumption : but the common pectorals alone will avail nothing in old flubborn coughs, their efficacy being loft in the long tour they have to make, before they come to the lungs; and indeed, were it otherwife, without they had fuch powerful openers joined with them, they would be of little confequence; for where there are any expectations from medicines, fuch are chiefly to be relied on, which have a power of diffolving and attenuating the vifcid humours, opening the finall obftructed veffels, and promoting all the natural fecretions.

Before

Before we close this chapter, it may Coughs be neceffary to obferve here that fome in young young horfes are fubject to coughs on horfes, how treatcutting their teeth ; their eyes alfo are af-ed. fected from the fame caufe. In these cafes always bleed, and if the cough is obstinate, repeat it, and give warm mashes; which, in general, are alone fufficient to remove this complaint. But when when the cough is an attendant on worms, from as it often is in young horses, you must worms. give fuch medicines as have a power to deftroy those animals; particularly mercurial phyfick at proper intervals, and intermediately half an ounce of Æthiop's mineral, mixed up with the cordial, or pectoral balls, may be given every day. Vide Chapter on WORMS.

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CHAP. VII.

Of a BROKEN-WIND.

The caufe of broken wind.

THIS diforder hitherto feems to have been little underftood, but Mr. Gibfon is inclined to think, that the fource of it is frequently owing to injudicious, or hafty feeding young horfes for fale; by which means the growth of the lungs, and all the contents within the cheft, are fo increafed, and in a few years fo preternaturally enlarged, that the cavity of the cheft is not capacious enough for them to expand themfelves in, and perform their functions.

Obfer vation.

A narrow contracted cheft with large lungs may fometimes naturally be the caufe of this diforder : and it has been obferved, that horfes rifing eight years old are as liable to this diftemper, as at a certain period of life men fall into afthmas, confumptions, and other chronic difeafes.

The

The reafon why this diforder becomes Why hormore apparent at this age, may be, that fes rifing a horfe comes to his full ftrength and eight. maturity at this time : at fix he com- grow monly finishes his growth in heighth ; brokenafter that time he lets down his belly and winded. fpreads, and all his parts are grown to their full extent; fo that the preffure on the lungs and midriff is now more increafed.

But how little weight foever thefe rea- Obfervafons may have, repeated diffections have tion. given ocular proofs of a preternatural largeness, not only of the lungs of broken-winded horfes, but of their heart and its bag; and of the membrane which divides the cheft; as well as of a remarkable thinnefs in the diaphragm, or midriff.

This difproportion has been observed The parts to be fo great, that the heart and lungs, brokenhave been almost of twice their natural winded fize, perfectly found, and without any horfes. ulceration whatever ; or any defect in the wind-pipe or its glands.

Hence

The pre-Hence it appears that this enormous ternatural fize of the lungs, and the fpace they occupy, by hindering the free action of lungs the the midriff, is the chief caufe of this diforder; and as the fubftance of the lungs was found more flefhy than ufual, they of course must lose a great deal of their fpring and tone.

The difficulty in breathing accounted for,

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chief

caufe.

This flefhinefs and fize of the lungs may in a great meafure be the caufe, why the infpirations in broken winded horfes are difproportionately flow; for we may obferve that they draw in their breath flowly, their flanks filling up, and rifing with difficulty : but that their flanks fall fuddenly, and their breath burfts forth with violence, both from the mouth and nostrils; infomuch that a man in the dark, by holding his hands on a horfe's mouth and nofe, may eafily discover if he is broken-winded.

Brekenwind incurable.

Whoever confiders a broken-wind in this light, must own that it may be reckoned among the incurable diftempers of horfes; and that all the boafted pretenfions to cure, 'are vain and frivolous, fince the utmost skill can amount to no more than

than now and then palliating the fymptoms, and mitigating their violence.

We fhall therefore only lay down fuch methods as may probably prevent this diforder when purfued in time. But if they fhould not fucceed, we fhall offer fome remedies and rules to mitigate its force, and to make a horfe as ufeful as poffible under this malady.

It is usual before a broken-wind ap- The fympears, for a horfe to have a dry obstinate tom cough, without any visible fickness, or which loss of appetite; but, on the contrary, a disposition to foul feeding, eating the wind. litter, and drinking much water.

In order then to prevent, as much as poffible, this diforder, bleed him, and give him the mercurial phyfick above preferibed, which fhould be repeated two or three times.

The following balls are then to be taken for fome time, which have been found extremely efficacious in removing obstinate coughs.

TAKE aurum Mofaicum, finely Balls for a powdered, eight ounces; myrrh and broken. F 4 elicam-

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elicampane, powdered each four ounces; anifeeds and bay-berries, each an ounce; faffron, half an ounce; make into balls with oxymel fquills.

Remarks.

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The aurum Mofaicum is made of equal parts of quickfilver, tin, fal armoniac, and fulphur. We give this medicine, as ftrongly recommended by Mr. Gibson ; but how far the aurum Mofaicum may contribute to its efficacy, may perhaps justly be difputed : as a fubflitute in its room therefore, for this purpole, we recommend the fame quantity of powered fquills, or gum Ammoniacum ; or equal parts of each. For this end alfo the following is offered.

Another for what purpofe. TAKE gum Ammoniacum, galbanum, and affa fœtida, of each two ounces; fquills four ounces, cinabar of antimony fix ounces, faffron half an ounce; make into a paste with honey. Give the quantity of a pullet's egg every morning,

The diet forbroken winded horfes.

Broken-winded horfes fhould eat fparingly of hay, which as well as their corn may be wetted with chamber-lye, or fair

Of a BROKEN-WIND. fair water; as this will make them lefs craving after water.

The volatile falts in the urine may Garlick make it preferable to water, and may be recommended. the reafon why garlic is found fo efficacious in thefe cales : two or three cloves given at a time in a feed, or three ounces of garlick bruifed, and boiled in a quart of milk and water, and given every other morning for a fortnight, having been found very ferviceable ; for by warming and ftimulating the folids, and diffolving the tenacious juices, which choak up the veffels of the lungs, thefe complaints are greatly relieved.

Careful feeding and moderate exercife Brokenhas greatly relieved broken-winded horfes; winded and though for the firft fummer they fould be have not been able to endure much confantly labour, yet many have been found lefs abroad. oppreffed the fecond, and fome fcarce perceptibly affected the third; and even able to bear great fatigue : and could a horfe be kept conftantly in the field, and taken up only when ufed, he might by this management do good fervice for ma ny years.

But

Neceffary caution.

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But whoever expects to cure his horfe, by fending him out to grafs, will find himfelf difappointed; efpecially if he remains abroad after the fpring grafs, for on his return to the ftable and dry meat, he will be more oppressed and short breathed than before, for want of the open air and moift food he had been accultomed to.

Arcmarkable obfervation.

Horses sent to grafs, in order to be cured of an obftinate cough, have often returned completely broken winded, where the pasture has been rich and fucculent, fo that they have had their bellies constantly full. As the ill confequence therefore is obvious, where you have not the conveniency of turning out your horfe for a conftancy, you may foil him for a month or two with young green barley, tares or any other young herbage.

Thick winded horfes, howtreat. ed.

To purfive thick-winded horfes, Barbadoes and common tar have often been given with fuccefs, to the quantity of two spoonfuls mixed with the yolk of an egg, diffolved in warm ale, and given fafting two or three times a week, efpecially those days you hunt or travel.

But

But in order to make all these forts of Their rehorfes of any real fervice to you, the gimen. grand point is to have a particular regard to their diet, observing a just ceconomy both in that and their exercife; giving but a moderate quantity of hay, corn, or water, at a time, and moiflening the former, to prevent their requiring too much of the latter, and never exercifing them but with moderation, as has before been observed. The following alterative ball may be given once a fortnight or three weeks, and as it operates very gently, and requires no confinement but on those days it is given (when warm meat and water are neceffary) it may be continued for two or three months.

TAKE Succotrine aloes fix drams, Analteramyrrh, galbanum, and Ammonia- tive purgcum, of each two drams; bay-berries half an ounce: make into a ball with a fpoonful of oil of amber, and a fufficient quantity of fyrup of buckthorn.

ing ball.

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CHAP. VIII. Of a CONSUMPTION.

The figns of a con-

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WHEN a confumption proceeds from a defect in a horfe's lungs, fumption, or any principal bowel, the eyes look dull; the ears and feet are mostly hot; he coughs fharply by fits ; fneezes much, and frequently groans with it; his flanks have a quick motion; he gleets often at the nofe, and fometimes throws out a yellowish curdled matter; and he has little appetite to hay, but will eat corn, after which he generally grows hot.

The cure.

As to the cure, one of the principal things is bleeding in fmall quantities (a pint, or pint and half, from fome horfes is fufficient) which should be repeated as often as the breath is more than ordinarily oppreffed. Pectorals may be given to palliate prefent emergent fymptoms; but as diffections have discovered both the glands of the lungs, and mefentery to be fwelled, and often indurated, the whole ftrefs lies on mercurial purges, and the

Of a CONSUMPTION.

the following ponderous alteratives, given intermediately.

TAKE native cinnabar, or cinnabar Alterative of antimony, one pound, powder powders. very fine, and add the fame quantity of gum guaiacum and nitre; give the horfe an ounce of this powder twice a day, wetting his feeds.

The fpring grafs is often extremely The falt ferviceable, but the falt-marshes are to marshes be preferred, and given to be more de- mond pended on than medicines; for great alterations are thereby made in the blood and juices, and no fmall benefit arifes from open air, and proper exercife.

But it may be worth observing, that Observaa horfe frequently relapfes, after ap- tion. pearances of amendment; when a yellowish gleet, or curdled matter runs from his nofe, and he grows emaciated, is much addicted to fweat, heaves much with a reduplicated motion, and has a fhort rattling cough; under thefe circumftances there can be little hopes of his recovery, or any future fervices from him; confequently, to fave farther expences, the beft way would be to difpatch him as an incurable.

mended.

An

Of an Apoplexy, or

Aremark. As many of the above medicines in this, and the preceding chapter for coughs, may be thought too expensive for horfes of no great value, tar-water may fupply their place; and perhaps will be found on trial no unworthy medicine, as Barbadoes and common tar has been experienced very effectual in fome fort of coughs, and of great fervice to thick-winded horfes.

CHAP. IX.

Of an Apoplexy, or Staggers, Convulfive Diforders, Lethargy, Epilepfy, and Palfy.

Diforders of the head, how to be difed.

ARRIERS generally include all diftempers of the head under two denominations, viz. Staggers and Convultinguish- fions; wherein they always suppose the head primarily affected. But in treating on these diforders, we shall diftinguish between those that are peculiar to the head, as having their fource originally thence; and

Staggers, &c.

and those that are only concomitants of fome other difeafe, where the head is affected fecondarily by confent of nerves, the fource of this diforder being in the ftomach, bowels, &c. By this method we shall avoid many blunders, which would otherwife arife in practice, for want of knowing the true feat of the diforder.

In an apoplexy a horfe drops down fuddenly without any other fenfe or motion than a working at his flanks.

The previous fymptoms are drowfinels, The watery eyes, fomewhat full and inflamed ; of apoa disposition to reel, feebleness, a bad plexy, or appetite; the head almost constantly staggers. hanging, or refting on the manger; fometimes with little or no fever, and fcarce any alteration in the dung or urine: the horfe is fometimes difpofed to rear up, and apt to fall back when handled about the head, which is often the cafe with young horfes, to which it does not prove fuddenly mortal, but with proper help they may fometimes recover. If the apoplexy proceeds from wounds, or blows on the head, or matter on the brain, befides the above fymptoms, the horfe will be frantick by fits, especially" after

after his feeds, fo as to ftart and fly at every thing. Thefe cafes feldom admit of a perfect recovery; and when horfes fall down fuddenly and work violently at their flanks, without any ability to rife after a plentiful bleeding, they feldom recover.

The cure.

All that can be done is to empty the veffels as speedily as poffible, by flriking the veins in feveral parts at once, bleeding to four or five quarts, and to raife up the horfes's head and fhoulders, fupporting them with plenty of ftraw. If he furvives the fit, cut feveral rowels; giue him, night and morning, glyfters prepared with a ftrong decoction of fena and falt, or the purging glyfter mentioned in the directions; blow once a day up his noftrils a dram of powder of afarabacca, which will promote a great discharge, afterwards two or three aloctic purges shoud be given; and to fecure him from a relapie, by attenuating and thinning his blood, give him an ounce of equal parts of antimony and crocus metallorum for a month; or which is preferable, the fame quantity of cinnabar of antimony and gum guaicum.

Staggers, &c.

If the fit proceeds only from fulnefs of When the blood, high feeding, and want of fuffi- flaggers cient exercife, or a fizy blood (which is are not dangeroften the cafe with young horfes, who, ous, though they reel, ftagger, and fometimes fuddenly fall down, yet are eafily cured by the above method) an opening diet with fcalded bran and barley will be neceffary for fome time; and the bleeding may be repeated in fmall quantities.

As to the other diforders of the head, Lethargy, fuch as lethargy, or fleeping evil, epilepfy, or falling ficknefs, vertigo, frenzy, and madnefs, convultions, and paralytical diforders, as they are most of them to be treated as the apoplexy and epilepfy, by bleeding and evacuations, with the alteratives there directed, we shall wave treating on them feparately, but mention fome particular rules to diffinguish them, according to the plan we laid down, and then offer fome general remedies for the feveral purpofes.

Thus in order to diftinguish epileptic Epilepfy diforders and convultions (which are of- and conten occafioned by worms, bots, and ul- vultions. cerations of the ftomach, bowels and midriff) from those which arise from original

Vertigo.

Of an Apoplexy, or

nal caufes in the head only, we fhall defcribe the fymptoms which diftinguifh them from each other; by which means we fhall be able to avoid any miftake in the application of the remedy: and as epileptic diforders have by ignorant farriers been miftaken for the gripes, we fhall alfo diftinguish these diforders by the fymptoms.

How epileptic d forders are diffinguifhed from gripes.

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In an epilepfy, or falling ficknefs, the horfe reels and ftaggers, his eyes are fixed in his head, he has no fenfe of what he is doing, he stales and dungs infenfibly, he runs round and falls fuddenly; fometimes he is immoveable, with his legs stretched out, as if he was dead, except only a quick motion of his heart and lungs, which caufes a violent working of his flanks; fometimes he has involuntary motions, and fhaking of his limbs, fo ftrong, that he has not only beat and fpurned his litter, but the pavement with it; and with these alternate fymptoms a horfe has continued more than three hours, and then he has as furprizingly recovered : at the going off of the fit, he generally foams at the mouth, the foam being white and dry, like what comes from a healthful lorfe when he champs on the bit.

I

But

But in all kinds of gripes, whether The fymthey proceed from diforders in the guts, of gripes or retention of urine, a horfe is often up defcribed. and down, rolls and tumbles about, and when he goes to lie down, generally makes feveral motions with great feeming carefulnefs, which fhews he has a fenfe of his pain, and if he lays ftretched out for any time, it is generally but for a fhort fpace. *Vide* Chapter on GRIPES.

Epilepfies and convultions may arife Epilepfies from blows on the head, too violent and convultions arife from a fulnefs of blood, or impoverifhed different blood, and furfeits; which are fome of caufes. the caufes that denote the original diforder.

But the head may alfo be affected by fympathy of nerves; for exceffive pain in any part of the body will excite convulfions, efpecially if the nerves and tendinous parts are affected, as by wounds, punctures, and bruifes externally; and by ulcers, gatherings of matter, and by bots and worms, wounding and vellicating the nervous parts internally; long coftivenefs has fometimes alfo occafioned thefe diforders. In all fuch cafes, the G 2 original

Of an Apoplexy, or original caufe must principally be attended to.

The general fymptoms of lethargy.

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In lethargic diforders the horfe generally refts his head with his mouth in the manger, and his pole often reclined to one lide; he will fhew an inclination to eat, but generally falls asleep with his food in his mouth, and he frequently fwallows it whole, without chewing: emollient glyfters are extremely neceffary in this cafe, with the nervous balls recommended for the ftaggers, and convulfions, p. 87: ftrong purges are not re-quifite, nor must you bleed in too large quantities, unlefs the horfe be young and lufty. In old horfes, rowels and large evacuations are improper, but volatiles of all kinds are of use, when they can be afforded; the alterative purge, p. 94. may be given and repeated on his amendment.

The good and bad fymptems.

This diftemper is to be cured by thefe means, if the horfe is not old and paft his vigour. It is a good fign if he has a tolerable appetite, and drinks freely without flabbering, and if he lies down, and rifes up carefully, though it be but feldom.

But

Staggers, &c.

But if a lethargic horfe does not lie down, if he is altogether ftupid and carelefs, and takes no notice of any thing that comes near him; if he dungs and ftales feldom, and even while he fleeps and dozes, it is a bad fign ; if he runs at the nofe thick white matter, it may relieve him, but if a vifcid gleet that flicks to his nostrils like glue, which increasing, turns to a profufe running of ropy, reddifh, and greenish matter; it is an infallible fign of great decay of nature, and that it will prove deadly.

Young horfes, from four to fix years, Young are very fubject to convultions from bots horfes in the fpring ; and the large coach breed fubject to more than the faddle : they are feized convulwithout any previous notice, and if bots bots. and worms are discovered in their dung, the caufe feems to be out of doubt, more efpecially if they have lately come out of a dealer's hands.

When this convultion proceeds from From the a diftemperature of the midriff, or any midriff. of the principal bowels, it is to be diffinguished from bots and vermin by previous symptoms: the horse falls off his ftomach, and grows gradually weak, G 3 feeble,

feeble, and difpirited in his work; and turns fhort breathed with the least exercife.

The lively description of that univer-Convulfons from fal cramp or convultion, called by fome the ftothe ftag-evil, which feizes all the mufmach, and cles of the body at once, and locks up other other principal the jaws, fo that it is impossible almost bowelsde- to force them open, we shall give in fcribed. Mr. Gibson's own words ; who fays, " as foon as the horfe is feized, his head is raifed with his nofe towards the rack, his ears pricked up, and his tail cocked, looking with eagerness as an hungry horfe when hay is put down to him, or like a high spirited horse when he is put upon his mettle; infomuch that those who are ftrangers to fuch things, when they fee a horfe ftand in this manner, will fcarce believe any thing of confequence ails him; but they are foon convinced, when they fee other fymptoms come on apace, and that his neck grows fliff, cramped, and almost immoveable; and if a horfe in this condition lives a few days, feveral knots will arife on the tendinous parts thereof, and all the muscles, both before and behind, will be fo much pulled and cramped, and fo ftretched, that he looks as if he was nailed to the pavement, with

Staggers, &c.

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with his legs ftiff, wide, and ftraddling; his fkin is drawn fo tight on all parts of the body, that it is almost impossible to move it; and if trial be made to make him walk, he is ready to fall at every ftep, unlefs he be carefully fupported : his eyes are fo fixed with the inaction of the mufcles, as gives him a deadnefs in his looks : he fnorts and fneezes often, pants continually with flortnefs of breath ; and this fymptom increases continually till he drops down dead ; which generally happens in a few days, unlefs fome fudden and very effectual turn can be given to the diftemper."

In all these cases the horse should first The cure bebled plentifully, unless he is low in flesh, of convulold, or lately come off any hard continued fions. duty, then you must be more sparing of his blood; afterwards give the following ball.

TAKE affa fœtida half an ounce, The ner-Ruffia caftor powdered two drams, vous ball, valerian root powdered one ounce: make into a ball with honey and oil of amber.

This ball may be given twice a day at first; and then once, washed down with a decoction of misletoe, or valerian; fweet-G 4 ened

Of an Apoplexy, or

ened with liquorice or honey; an ounce of affa fœtida may be tied up in a piece of ftrong coarle linen rag, and put behind his grinders to champ on.

The laxative purges and emollient glyfters fhould be given intermediately to keep the body open; but when the former balls have been taken a week or ten days, the following may be given once a day with the valerian decoction.

Another pervous ball.

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TAKE cinnabar of antimony fix drams, affa fœtida half an ounce, ariftolochia, myrrh, and bay-berrries, of each two drams : make into a ball with treacle and oil of amber.

This is the most effectual method of treating these diforders: but when they are suspected to arise from bots and worms, which is generally the case, mercurial medicines must lead the way. Thus.

A mercurial ball.

TAKE mercurius dulcis, and philonium, of each half an ounce; make into a ball with conferve of rofes, and give the horfe immediately: half the quantity may be repeated in four or five days.

The

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The following infufion fhould then be given to the quantity of three or four horns, three or four times a day, till the fymptoms abate; when the above nervous balls may be continued till they are removed.

TAKE penny-royal and rue, of each An infatwo large handfuls; camomile flow-fion. ers one handful; affa fœtida and caftor, of each half an ounce; faffron and liquorice root fliced, of each two drams : infufe in two quarts of boiling water; pour off from the ingredients as wanted.

If the caftor is omitted, add an ounce of affa fœtida.

The following ointment may be rubbed into the cheeks, temples, neck, fhoulders, fpines of the back and loins, and wherever there is the greateft contractions and ftiffnefs.

TAKE nerve and marfh-mallow oint-An emolment, of each four ounces; oil of lient liniamber two ounces; with a fufficient ment quantity of camphorate fpirit of wine: make a liniment.

Of an Apoplexy, or

To horfes of fmall value give the following.

A nervous infution. T A K E rue, penny-royal, and tobacco, of each a handful; affa fœtida an ounce; boil in a quart of
forge-water: let the decoction fland on the ingredients, and give as the former.

Observation. When the jaws are fo locked up, that medicines cannot be given by the mouth, it is more eligible then to give them by way of glyfter; for forcing open the jaws by violence, often puts a horfe into fuch agonies, that the fymptoms are thereby increafed. The infufion above may be given for this purpofe, or the following.

A nervous glyfter. TAKE rue, penny-royal, and camomile flowers, of each a handful, valerian root two ounces; boil in five pints of water to two quarts : in the ftrained liquor diffolve caftor and affa fœtida, of each half an ounce, or of affa fœtida alone one ounce, common oil four ounces. Give this glyfter once a day.

In

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In this cafe alfohe muft be fupported by Nutritive nourifhing glyfters, made of milk-pot-glyfters, tage, broths, &c. which muft be given to the quantity of three or four quarts a day; glyfters of this kind will be retained, and abforbed into the blood; and there have been inftances of horfes thus fupported for three weeks together, who muft otherwife have perifhed.

Mr. Giblon mentions fome extraordi- Frictions nary inftances of fuccefs in cafes of this very ucfort by thefe methods, and repeated frictions, which are extremely ferviceable in all convultive diforders, and often prevent their being jaw-fet; they fhould be applied with unwearied diligence every two or three hours, wherever any ftiffnefs or contractions on the mufcles appear, for a horfe in this condition never lies down till they are in fome meafure removed.

He takes particular notice of a horfe Aremarkwhofe jaws were fo locked up for three able cafe. weeks, that both food and medicine were forced to be given by glyfter; that not having recovered the ufe of his jaws for a fortnight, though he now moved them with lefs ftiffnefs he was determined, from

Of an Apoplexy, or

from the known relaxing power of opium, to give him half an ounce of it, diffolved in one of his glyfters, the good effects of which were fo evident, by a general amendment, that he was encouraged to continue it in the following manner.

TAKE Mathews's pill, and affa fcetida, of each an ounce : make. into a ball.

This ball he gave for one dole, and repeated once; and by this and the use of the nervous medicines given twice a week, and gentle purging, the horfe was perfectly recovered.

Rowels ofbad confequence.

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The use of rowels in these cases is genefometimes rally unfuccefsful, the fkin being fo tenfe and tight, that they feldom digeft kindly, and fometimes mortify; fo that if they are applied, they should be put under the jaws, and in the breaft.

Remark.

The red-hot iron fo frequently run through the foretop and mane, near the occipital bone, for this purpofe, has often been found to have deftroyed the cervical ligament.

In paralytic diforders, where the ufe of How paralytic diforders, where the ufe of How paralytic a limb or limbs is taken away, the internals above recommended fhould be given, fhould be in order to warm, invigorate, and attenute treated, ate the blood; and the following ftimulating embrocation fhould be rubbed into the parts affected.

T A K E oil of turpentine four ounces, A warm nerve ointment and oil of bays, of timulareach two ounces; camphor rubbed ing linifine, one ounce; rectified oil of amber three ounces; tincture of cantharides one ounce.

With this liniment the parts affected Howaled. fhould be well bathed for a confiderable time, to make it penetrate; and when the hind parts chiefly are lame, the back and loins fhould be well rubbed with the fame: to the nervous medicines above recommended, may be added fnake-root, contrayerva, muftard feed, horfe radifh root, fleeped in ftrong beer, or wine where it can be afforded. Take the following for an example, which may be given to the quantity of three pints a day alone, or two horns full may be taken after the nervous balls.

TAKE

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Of an Apoplexy, or

The paralytic infufion.

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T A K E fnake root, contrayerva, and valerian, of each half an ounce; muftard feed and horfe-radifh root fcraped, of each two ounces; long pepper two drams: infufe in three pints of ftrong beer or wine.

When the horfe is recovering from any of the above diforders, the following alterative purge may be repeated two or three times, as it operates very gently.

An alterativepurge. T A K E Succotrine aloes one ounce, myrrh half an ounce, affa fœtida and gum Ammoniacum, of each two drams, faffron one dram; make into a ball with any fyrup.

How to treat diforders of the head from coftivenefs.

Where a retention of dung is the caufe of this diforder, the great gut fhould firft be raked thoroughly with a fmall hand, after which plenty of emollient oily glyfters fhould be thrown up, and the opening drink given, till the bowels are thoroughly emptied of their imprifoned dung. Their diet fhould for fome days be opening, and confift chiefly of fcalded bran, with flower of brimftone, fcalded barley, $\mathcal{E}c$. This general method we hope will give Obfervafufficient light into the nature of these dif- tion. orders, and their treatment, without minutely entering into their caufes; which in fome cafes, perhaps, are inferutable; and where the most plausible writers have appeared rather as learned triflers than fatisfactory reasoners.

CHAP. X.

Of the STRANGLES and VIVES.

THE firangles is a diffemper to Theffran-which colts and young horfes are gles devery fubject; and begins with a fwelling tcribed. between the jaw-bones, which fometimes extends to the muscles of the tongue; and is attended with fo great heat, pain, and inflammation, that fometimes, till matter is formed, the horfe fwallows with the utmost difficulty.

The fymptoms are extraordinary heat The fymand feverifhnefs, with a painful cough, and a great inclination to drink without being

ptoms.

being able; fome horfes losing their appetite intirely, others eating but little, by reason of the pain which chewing and fwallowing occafions : when the fwilling begins on the infide of the jaw-bones, it is much longer in coming to matter than when more to the middle; when it arifes among the glands, and divides into feveral tumours, the cure is generally tedious, as it breaks in different places; and when it forms upwards on the wind-pipe and gullet, there is fometimes danger of fuffocation, unless the fwelling foon breaks. But the most dangerous kind is, when, befides the above fymptoms, the horfe runs at the nofe; this by fome is called the baftard ftrangles.

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The cure. As this diforder feems to be critical, the most approved method is to affift nature in bringing the fwellings to maturity, by keeping them conftantly moift with ointment of marih-mallows, and covering the head and neck with a warm hood. But as all fwellings in glandular parts suppurate flowly, the following poultice may be applied hot twice a day: it is alfo a very proper one to ripen, or bring any other fwelling to matter. to the second second

TAKE

Staggers, &c.

A fuppu-

T A K E leaves of marfh-mallows^{rating} ten handfuls, white lily root half a ^{poultice.} pound, infeed and fennugreek feed bruifed, of each four ounces; bo'ld them in two quarts of water till the whole is pulpy, and add four onnces of ointment of marfh-mallows, and a fufficent quantity of hogs lard, to prevent its growing ftiff and dry.

In five or fix days, by thefe means, the matter is generally formed, and makes its way through the fkin; and if the difcharge is made freely and with eafe, the opening need not be enlarged; but fhould be dreffed with the following ointment fpread on tow, ftill continuing the poultice over it to promote the digeftion, and prevent any remaining hardnefs.

TAKE rofin and Burgundy pitch, A general of each a pound and a half; honey digeflive and common turpentine, each eight ounces; yellow wax four ounces; hogs-lard one pound; verdigreafe, finely powdered, one ounce: melt the ingredients together, but do not put in the verdigreafe, till removed from the fire; and it fhould be ftir-H red

red in by degrees, till the whole is grown ftiff and cool.

Bleeding If the fever and inflammation run high, fometimes and the fwelling be fo fituated as to enneceffary. danger fuffocation, a moderate quantity of blood mult be taken away, and the remainder diluted with plenty of water-gruel, or warm water, mafhes, &c.

Obfervation. The running at the nofe, which often attends the ftrangles, is dangerous; effecially if it continues after they have ripened and broke, as the horfe will be greatly weakened thereby. To prevent this wafte and decay, give him every day for fome time an ounce of Jefuit's bark; or a ftrong decoction of guaiacum fhavings, which hath been found extremely beneficial in reftraining thefe glandular difcharges when too liberal, and in drying up ulcers of all kinds in horfes. Vide Chapter on GLANDERS.

If a hardnefs remains after the fores are healed up, they may be anointed with the mercurial ointment, and, when the horfe has recovered his flrength, purging will be neceffary.

The vives The vives or ives differ from the deferibed. ftrangles only in this, that the fwellings of

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of the kernels under the ears of the horfe (which are the parts at firft chiefly affected) feldom gather, or come to matter, but by degrees perfpire off, and difperfe, by warm cloathing, anointing with the marfhmallow ointment, and a moderate bleeding or two. But, fhould the inflammation continue, notwithftanding thefe means, a fuppuration muft be promoted by the methods above recommended in the ftrangles.

When these fwellings appear in an old or full-aged horse, they are signs of great malignity, and often of an inward decay, as well as forerunners of the glanders.

The mercurial ointment, above-mentioned, may be prepared thus :

TAKE of crude mercury, or quick-Amercafilver, one ounce; Venice turpentine rial ointhalf an ounce; rub them together in ment. a mortar till the globules of the quickfilver are no longer vifible; then add two onnces of hogs-lard.

Some authors recommend this oint-Obfervament to be used at first, in order to dif-tion. perfe the fwellings, and prevent their coming to matter; bleeding and purg-H2 ing

ing at the fame time for that purpole; but as in young horfes they feem to be critical, the practice by fuppuration is certainly more eligible and fafe; for want of properly effecting which, the humours frequently fettle, or are tranflated to the lungs, and other bowels; or falling on the flefhy parts of the hind quarters form deep impofthumes between the mufcles, which difcharge fuch large quantities of matter, as fometimes kill the horfe, and very often endanger his life.

CHAP. XI.

APT ALL AND A THE ALL AND A TH

Of the Difeases of the EYES.

The difeafes of the eyes diffinguifhed. Norder to make the diforders of the eyes well underftood, we shall confider them as arising from different causes: external injuries affecting the globe of the eye; and from internal causes affecting the humours within the globe. We shall confider also the eye as naturally weak from a bad conformation, which Of the Difeafes of the EYES. which possibly may often be hereditary. TOT

We fhall thus be able to form a proper judgment when wafhes, and external applications, are really useful, and to be depended on; and when it is not only abfurd to apply them, but even extremely pernicious.

In all recent diforders of the eye from The cure external injuries, fuch as blows, bites, $\mathcal{C}c.$ of exterattended with a fwelling of the lid, and a nal injurunning from the eye, you mult firft ries. fponge the part often with cold fpring water and vinegar; and if much fwelled bleed immediately, and apply over it a poultice made of the pulps of roafted or boiled apples, cleared from their feeds and hufks; or of conferve of rofes and vinegar, with a little bole, and the white of an egg. When the fwelling is abated, either of the following waftes will complete the cure.

T A K E white vitriol, half an ounce, A cooling fugar of lead two drams; diffolve in eye-water a pint of fpring water; to which may occafionally be added, when the rheum is very great, and in-H 3 flam102

Of the Difeases of the EYES.

flammation removed, half an ounce of tutty, or compound powder of cerufs.

How used. Let the eye and eye lid be bathed three or four times a day with a clean fponge dipped in this wash; or it may be applied with a feather, leaving a few drops on the eye. When the veins under the eye have been turgid, opening them with a lancet has often been found fuccefsful.

Mr. Gibson from his own experience recommends the following, with which alone he has fucceeded in most common cafes.

repulling eye-water.

Another TAKE two drams of role buds, infuse them in half a pint of boiling water; when cold, pour off the in-fusion, and add to it twenty grains of fugar of lead.

> This is to be used as the former; but I think the quantity of fugar of lead too fmall, and may occafionally be increafed.

> > Sometimes

Sometimes from the violence of the in-Extraorflammation, fucceeding blows, and extermal injuries, the coats of the eye fhall lofe their transparency, thicken, and turn white, or pearl colour; in the latter cafe the horie has fome glimmering of light; in the former he is blind, while the eye continues in this flate.

This appearance may atile from a ftag-How nation of the lymph, or juices circulating caufed. in the cornea, which in their natural ftate are clear and thin, but undergo this change by the heat and inflammation; a white blifter often forms on the cornea, the fize fometimes of a grape; this always proves a relief, and when it breaks, haftens the cure.

In all these diforders, the degree of in-Caution. flammation and obftruction is chiefly to be attended to, which must regulate the preceding remedies in regard to their ftrenth, fo as to proportion them to the exigency of the fymptoms.

If the horfe be flefby, and of a grofs The cure conftitution, bleeding may be repeated; of inflamand a rowel will be necefiary: let his diet be fcalded bran or barley; avoiding for H 4 fome

Of the Difeases of the EYES. fome days oats, beans, or any thing hard to chew.

The cooling opening drink, p. 35. fhould be given every other day, which will anfwer better than aloetic purges.

Obfervation.

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If the eyelids continue fwelled and moift, and the under fide of the eye inflamed, an ounce of honey may be added to four ounces of the above waters; or the part may be well bathed with an ounce of honey of rofes, and half a dram of fugar of lead, diffolved in three ounces of fpring water: to which may be added, when the eye is very watery, a fpoonfull or two of red wine, which will help to thicken the matter and dry it up.

A film how removed. If a film or thick flough fhould remain it may be taken off, by blowing into the eye equal parts of white vitriol and fugarcandy, finely powdered.

Glafs finely powdered, mixed up with honey and a little fresh butter, is much recommended by Dr. Bracken for this purpose; as also the following ointment.

TAKE

T A K E ointment of tutty one ounce, An ointhoney of rofes two drams, white ment forvitriol burnt one fcruple: this with a feather may be fineared over the eye twice a day.

The aq. fapphirina and the juice of celandine are recommended alfo for this purpofe, a few drops of either being put on the eye every day. For the fame purpofe, as alfo for bruifes and other diforders of the eye, the following will be found ufeful.

T A K E eyebright and celandine of An ointeach two handfuls, rofemary tops bruifes, half a handful, rofin half an ounce; &c. chop the herbs and boil them over a gentle fire in three pints of cream, till it comes to a green oil, then flrain through a fine cloth, and keep in agallipot for ufe.

The quantity of a finall bean may be put in the horfe's eye, night and morning.

The next is the famous ointment of Sir Hans Sloane, where I have only taken the 106

Of the Difeases of the EYES. the liberty to double the quantity of aloes.

Sir Hans Sloane's ointment. TAKE of prepared tutty one ounce, of lapis hæmatitis prepared two fcruples, of the best aloes twentyfour grains, of prepared pearl four grains; put into a marble mortar. and mix with a fufficient quantity of vipers fat.

Some ohon it.

This medicine, like other noftrums, fervations was in great efteem while it remained a fecret; but fince the difcovery of it, and an examination of the composition, it appears to vary in nothing from the common practice, except in the fubfitution of the vipers fat for lard, or fresh butter. It ought alfo to be remarked in Sir Han's account, that, in the application, he calls to his affiftance all the means medical practice has hitherto employed in cafes of this kind; as bleeding, cupping, bliftering, iffues, alteratives, &c .- So that either fome of thefe methods must do very little, proportionably to the trouble they give, or his medicine lefs, to render both neceffary. This form may however be preferable to washes, or eye-waters, as it will remain longer on the parts affected.

Let

Let it be remembered, that is has long Proper been obferved in practice, that the eye cautions. in its first state of inflammation is fo very tender, that the eye waters prepared with tutty, and other powders, aggravate the diforder; confequently, during this state, the tinctures of vegetables, and folutions of falts, are greatly preferable.

Wounds of the eye may be dreffed with Wounds honey of rofes alone, or with a little fugar of the of lead mixed with it, adding thereto, eye, how after a few days, an eighth part of tincture of myrrh; all the preceding directions in regard to inflammation being attended to, efpecially bleeding, rowels, and gentle cooling phyfick.

When the humours of the eye are Observathickened, and the diforder is within the tion. globe, fharp external applications are not only useles, but extremely detrimental, by the irritation they occasion, and confequently should be avoided.

In all cafes of this fort, whether moon eyes, which are only cataracts forming, or in confirmed ones attended with a weeping, general evacuations, with internal alteratives, can only take place. Let us defcribe Of the Difeafes of the EYES. deforibe thefe internal diforders with their fymptoms.

The fymptoms of moon eyes and cataracts.

Thefe generally make their appearance, when a horfe is turned five, coming fix; at which time one eye becomes clouded, the eyelids being fwelled, and very often fhut up; and a thin water generally runs from the difeafed eye down the cheek, fo fharp as fometimes to excoriate the fkin; the veins of the temple, under the eye, and along the nofe, are turgid and full: though fometimes it happens that the eye runs but little.

This diforder comes and goes till the cataract is ripe; then all pain and running difappear, and the horfe becomes totally blind, which is generally in about two years. During this time fome horfes have more frequent returns than others; which continue in fome a week or more, in others three or four; returning once in two or three months, and they are feldom fo long as five without a relapfe.

A dry cataract deforibed.

There is another kind of moon blindnefs, which is alfo the forerunner of cataracts, where no humour or weeping attends. The eye is never flut up or closed here, but will now and then look thick

thick and troubled, at which time the horfe fees nothing diffinctly : when the eyes appear funk and perifhing, the cataracts are longer coming to maturity; and it is not unufual in this cafe for one eve to escape.

These cases generally end in blindness Thegeneof one, if not of both eyes: the most pro- ral event. mifing figns of recovery are when the attacks come more feldom, and their continuance grows fhorter, and that they leave the cornea clear and transparent, and the globe plump and full.

The attempts to cure cataracts have The cure hitherto been only palliative, and miti- of catagating the fymptoms; yet early care has rachs. sometimes been successful. To this end the horfe fhould be rowelled and bled at proper intervals; except where the eyes appear funk and perifhing, where it is often pernicious. During the violence of the fymptoms, observe the cooling treatment above recommended, giving him two ounces of nitre every day mixed into a ball with honey, and bathe the parts above the eye with verjuice, or vinegar, wherein role-leaves are infuled; to four ounces of which, half a dram of fugar of lead may be added. The fwelling

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ing on the lid may afterwards be bathed with a fponge dipt in equal parts of lime and Hungary water, mixed together: the cooling phyfick, p. 18, fhould be given every fourth day till the eye becomes clear, and recovers its ufual brightnefs. The following alfo is very proper phyfick for this purpofe:

TAKE lenitive electuary, and cream of tartar, of each four ounces; Glauber's falts, three ounces; fyrup of buckthorn, two ounces.

When the weeping is by thefe means removed, the alterative powders (ch. xxi.) fhould be given every day, till two or three pounds are taken, and, after an interval of three months, the fame courfe fhould be repeated. This method has often been attended with good fuccefs, where the eyes have been full, and no way perifhed; in that cafe bathe or foment them with the following, twice a day.

TAKE crude fal armoniac two drams, diffolve it in a pint of lime-water, and add to it four ounces of brandy, or Hungary water.

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This

This will act as a ftimulus, and may help to thin and rarefy the gummy juices, and bring new supplies of nourishment to the perifhing eyes.

This courfe not fucceeding, in order Mercurimore powerfully to open the veffels of the als recomchrystalline humour (which in these cases mended. is always found opake, and when the cataract is confirmed, intirely lofes its transparency) and hinder as much as possible the forming of obstructions, mercurials are chiefly to be depended on: thus give every other day, for three or four mornings, two drams of calomel, mixed up with conferve of roles; and then purge off with the common ball.

During this course particular care should The altebe taken of the horfe : after repeating this, ratives the alterative powders before-mentioned to be defhould be given, for fome weeks or months, pended if you expect any benefit from them; on. or they may be beat up into a ball with live millepedes, and an ounce and a half given every day : if these should not fucceed, and the horfe is a valuable one, the turbith course, recommended in the chap er on alteratives, feems to be the most promising method left. But to horles

norfes that are not fo, an ounce of antimony ground into an impalpable powder, may be given every day in one of his feeds, for three months or longer; or a firong decoction of guaiacum fhavings may be given for fome time, to which crude antimony may be given in the following manner.

An alterative drink. TAKE guaiacum fhavings one pound, crude antimony tied in a rag, the fame quantity; boil in two gallons of forge-water to one, and give a quart a day, either alone, or mixed with his water.

Dr. Bracken advifes as much as will lie on a fixpence, of the following powder, to be blown up the horfe's noftrils once a day.

A ftimulating fnuff. TAKE turbith mineral two drams, affarabacca powdered, half an ounce ; mix, and keep in a bottle, well corked.

Nor let any one wonder at the tedioufnefs of the courfe here recommended, as the intention in curing is to alter the whole mafs of fluids, to fufe and attenuate them in fuch a manner, that they I may

may circulate freely through the minuteft veffels, particularly those of the eye, which are exquisitely fine; and when the blood is in a viscid state, may be supposed eafily retarded in its circulation through them; the confequence of which, if not foon removed, when once fixed, will be an immediate obstruction, and of courfe occasion total blindnefs.

Tying up the temporal arteries is by Observafome much commended, especially in tions. full eyes; for by this means the circulation of the blood to them is greatly impeded : but to flat depreffed eyes this operation must be injurious, as it would deprive them of their neceffary nourifhment, and tying up the veins would feem here the most proper. But the taking up the veins where the eyes are full, must for the most part prove hurtful, by cutting off the channels which should convey the blood and juices from them into the course of circulation, and confequently increase the diftemper, inftead of abating it.

The haws is a fwelling and fpunginefs The haws that grows in the inner corner of the eye, what. fo large fometimes as to cover a part of the eye. The operation here is eafily perform-T

Of the GLANDERS.

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performed by cutting part of it away; but the farriers are apt to cut away too much: the wound may be dreffed with honey of roles; and if a fungus or fpongy flefh arifes, it fhould be fprinkled with burnt alum, or touched with blue vitriol.

CHAP. XII.

Of the GLANDERS.

The glan- THE caufe and feat of the glanders there but I has till lately been to imperfectly little un- handled, and fo little underftood by the derstood. writers of this diffemper, that it is no. wonder it should be ranked among the incurables: but a new light having been. thrown on this whole affair by the ftudy of M. La Fosse, the King of France's farrier, who has been at the pains to trace out, and discover, by diffections, the fource and caufe of this diforder ; we hope the method he has proposed, with fome further experiments and improvements, will foon bring to a certainty of cure (in most cases at least) a distemper fo

fo dangerous to our horfes, and that hitherto has eluded the force of art.

Before we make mention of this work, which has the approbation of the Royal Academy of Sciences, it will not be unacceptable to our readers, we apprehend, to have a more particular account of the fymptoms of this diforder from M. La Fosse, that we may the better judge of the merit of our author and his difcoveries.

This gentleman then has diflinguished feven different kinds of glanders, four of which are incurable.

The first proceeds from ulcerated lungs, the purulent matter of which comes up the trachea, and is difcharged through the nostrils, like a whitish liquor, fometimes appearing in lumps and grumes: in this diforder, though the matter is difcharged from the nostrils, yet the malady is folely in the lungs.

The fecond is a wafting humour, which ufually feizes horfes at the decline of a difeafe, caufed by too hard labour : this defluxion also proceeds from the lungs. I 2 The

The third is a malignant difcharge, which attends the firangles fometimes, and falls upon the lungs, which runs off by the noftrils.

The fourth is, when an acrimonious humour in the farcy feizes thefe parts, where it foom makes terrible havock.

The fifth kind we fhall defcribe by and by, as arifing from taking cold.

The fixth kind is a difcharge from the ftrangles, which fometimes vents itfelf at the noftrils. Vide STRANGLES, chap. x.

Thefe are the various diforders which have been observed fometimes to throw matter out from the nostrils; let us now defcribe the real glanders.

The general fymp- noftrils of a glandered horfe, is either tomswhite, yellow, or greenifh, fometimes ftreaked, or tingid with blood : when the difeafe is of long ftanding, and the bones are fouled, the matter turns blackifh, and becomes very fœtid; and is always attended with a fwelling of the kernels or glands under the jaws; in every other refpect

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refpect the horfe is generally healthy and found, till the diffemper has been of fome continuance.

It is always a bad fign, when the mat- Particu ter flicks to the infide of the noftrils, fymplike glue or ftiff paste ; when the infide toms. of the nofe is raw and looks of a livid, or lead colour : when the matter becomes bloody, and flinks, and when it looks of an afh colour. But when only a limpid fluid is first difcharged, and afterwards a whitish matter, the gland under the jaw not increasing, and the diforder of no long continuance, we may expect a fpeedy cure; for in this cafe, which arifes from taking cold, after a horfe has been over-heated, the pituitary membrane is but flightly inflamed, the lymph in the fmall veffels condenled, and the glands overloaded, but not yet ulcerated.

From these fymptoms and some ob-Observæ fervations made both by Braken and tion. Gibson, it is plain they were not absolute strangers to the feat of this diforder, though they neglected pushing their enquiries to the fountain-head, and confequently were at a loss to know how to apply the remedy to the parts affected. But Diffections prove the feat of the glanders to be in the cavities of the head, and not in the vifcera.

But our author, after examining by diffection, the carcaffes of glandered horfes, and making a ftrict ferutiny into the ftate of the viscera, affifted for that purpole by ingenious and expert anatomists, for ten years together, affirms this difeafe to be altogether local; and that the true feat of it is in the pituitary membrane, which lines the partition along the infide of the nofe, the maxillary finuffes or cavities of the cheek-bones on each fide the nofe, and the frontal finulfes or cavities above the orbits of the eyes ; that the viscere, as liver, lungs, Gc. of glandered horfes are in general exceeding found; and confequently that the feat of this diforder, is not in those parts, as has been afferted by most authors; nor indeed is it probable it fhould: for how could fuch horfes preferve their appetite. their good appearance, fleek and fhining coats; in a word, all the figns of health for many years together (which many glandered horfes are known to enjoy) with fuch diftempered bowels ?

Ocular cemonfitation of it.

But on nicely examining the heads of fuch horfes, he found the cavities aboveof mentioned, more or lefs, filled with a vifcous flimy matter, the membrane which

which lines both them and the noftrils inflamed, thickened, and corroded with fordid ulcers, which in fome cafes had eat into the bones. These *finuffes* or cavities will be better understood by referring to the annexed plate.

He observes, that when glandered Some curious obfitrils, both fides of the membrane and cavities were affected; but when they ran at one nostril only, that fide only was found diffempered.

It is a curious remark of our author, that the fublingual glands, or the kernels fituated under the jaw-bone, which are always fwelled in this diftemper, do not difcharge their lymph into the mouth, as in man, but into the noftrils; and that he conftantly found their obftruction agreed with the difcharge: if one gland only was affected, then the horfe difcharged from one noftril only, but if both were, then the difcharge was from both.

He fometimes, though rarely, found The bones the bony partition of the nofe carious or fometimes rotten; but that the fpongy bones about rotten. this part must fuffer from the acrimony I 4 of

of matter long pent up, is not at all to be doubted, though the more folid ones may efcape.

The cure bytrepaning.

The feat of this diforder thus difcovered, our author with great ingenuity has paved the way for cure, by trepanning these cavities, and taking out a piece of bone; by which means the parts affected may be washed with a proper injection, and, in fine, the ulcers eterged, healed, and dried up.

By injections and fumigations.

But as from the obfervations fince made by this gentleman, there are different species of the glanders, fo the cure of the milder kinds may first be attempted by injections and fumigations. Thus after taking cold, fhould a horfe, for fifteen or twenty days, difcharge a limpid fluid, or whitifh matter, from one or both noftrils, the glands under the jaw rather growing harder than diminifhing, we may expect it will degenerate into a true glanders. To prevent which, after first bleeding, and treating him as we have directed for a cold, let an emollient injection, prepared with a decoction of linfeed, marsh mallows, elder, camomile-flowers, and honey of rofes, or fuch like, be thrown up as far as poffible

fible with a ftrong fyringe, and repeated three times a day : fhould the running leffen, or be removed in a fortnight by the use of this injection, a reftringent one may now be prepared with tincture of rofes, lime-water, &c. p. 126. and the noftrils fumigated with the powders of frankincenfe, maftich, amber, and cinnabar, burnt on an iron heated for that purpofe; the fume of which may eafily be conveyed through a tube into the noftrils.

This method has been found fuccefsful when used in time ; but the methods of cure depend on the flubbornnefs of the diforder, and when inveterate, recourfe must be had to the operation above defcribed.

This operation he has performed on The fucthree horfes; two of whom difcharged cefs in refrom one noftril only, and the third from gard to both : the two first he trepanned on that the operafide of the head which was affected, and to the other he performed it on both; and found that the wound and perforation filled up with good flefh in twenty-fix days, and that the horfes fuffered no inconvenience from the operation :

tion; though after this experiment they were put to death.

Why not broughtto perfection in France.

The directions and orders of the civil government of France, which hinder people from keeping glandered horfes long, prevented M. La Foffe repeating his attempts, and pufhing his experiments further; but it is to be hoped that fo ufeful a project will be purfued to its utmost extent, as it feems fo promifing in the execution, and is fo important in its confequences: to which end we fhall beg leave to animadvert on what has been faid, and offer our opinion both in relation to the difeafe, the operation, and the manner of conducting the cure.

Proved to arifeoriginally from an inflammation.

In order to prove that a great inflammation of the pituitary membrane is always the caufe of the glanders, M. La Foffe has attempted to bring on an inflammation upon the fame membrane, by a corrofive injection; and when the injection was only thrown into one fide, the maxillary lymphatic glands were fwelled on the fame fide, and that noftril only produced the difcharge; but when both noftrils were injected, thefe fymptons appear on both fides. This gentleman has alfo observed, that the bone of

of the maxillary finus being broke by the kick of another horfe, the ufual fymptoms of the glanders foon appeared, from the inflammation the pituitary membrane fuffered on the occasion.

The original fource and caufe then of The true this diforder, feems to be an inflamma- cause and tion of the glands, and membrane that feat of the lines the noftrils and thefe cavities ; which, glanders. if not difperfed in time, will form matter, and ulcerate and erode the bones. for want of a free difcharge to unload the cavities, and of proper applications to cleanfe and deterge the ulcers: violent colds, or a feverifh translation, fetting here may alfo occafion the fame complaint, and are probably the general caufes.

There is a diforder in men, called ozena, that has great fimilitude to this logy bein horfes, and arifes often from an inflammation in the maxillary finuffes, or cavities in the cheek-bones, from whence enfues a collection of matter ; which ed in the when the cavity is full, or the head properly inclined, runs over into the nofe, and would conftantly difcharge thence like a glandered horfe, was the head continued in the fame polition. The furgical

An anatween the glanders. and mattergathercheekbone of man.

furgical cure is the taking out one or more teeth from the upper jaw, and perforating the cavity with a proper inftrument, in order to make a depending orifice for the matter to flow through; and to make way for fyringing the parts affected with proper injections, which in this cafe are thrown through the cavity into the nofe.

The method of cure in bothmuch alike.

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The fimilarity of these two cases, with the method of cure, and the fuccefs attending the furgical treatment (which was first invented and perfected by our countrymen Drake and Cowper) undoubtedly gave the first hint for trepanning, and fyringing these cavities in horfes; and it is most probable, that when the operation is attempted in time, before the bones become rotten, it will be attended with equal fuccefs; but after opening the cavities, fhould it by probing be difcovered, that the bones are in that state, the best way then would be to difpatch the horfe, to prevent unneceffary trouble and expence.

The parts fixed on for applying the trepan, are pointed out in the plate, and the manner of fawing out the bone will eafily be underftood by a view of the inftru-

Of the GLANDERS. instrument, and the explanation annexed.

The perforations being made, our Directinext bulinefs is to prevent their filling ous to be up too faft; as it may be neceffary to after the keep them open for fome weeks before operation. a cure can be effected; for which purpofe, after the use of the injection, let the upper one be filled up with a piece of cork, waxed over, and adapted exactly to its fize: the lower one may be kept open with a hollow leaden tent, through which there will be a conftant drain of matter fron the finuffes, which will be greatly favoured by this depending orifice, and both be detained by a proper bandage.

If this method should not prevent the Caudicks, granulations, or shoots of the flesh, andcautefrom filling up fo fast as to choak up ry may be the perforation, and by that means hinder the injections passing freely; they must be fuppreffed by rubbing with cauflic medicines, or touching with the actual cautery; as may also the bony edges; which by obliging them to exfoliate or scale off, will retard the healing,

th.

The

Injections recommended.

The injections first made use of, should be of a deterfive nature; as a decoction of birthwort, gentian, and centaury: to a quart of which, if two ounces of Ægyptiacum and tincture of myrrh are added, it may be as proper as any ; and when the discharge is observed to abate, and the colour alter to a thick white matter, the injection may be changed for barley-water, honey of rofes, and tincture of myrrh; and, finally, to dry up the humidities, and recover the tone of the relaxed glands, Bate's alum water, or a folution of colcothar, vitriol, lapis medicamentofus, or fuch like, in lime-water, will most probably compleat the cure. Dr. Bracken recommends the following :

TAKE of alum and white vitriol powdered, of each four ounces; calcine them in a crucible; when cold, powder the calx, and mix it with a gallon of lime-water, and a quart of vinegar: decant the clear for ufe.

Internals But whoever is at all acquainted with neceffary practical furgery, well knows that withtocompleat out the affiltance of internals, especially the cure.

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in glandular diforders, the cure is not fo eafily effected, nor rendered compleat or lafting: I therefore advife a ftrong decoction of guaiacum chips to be given every day, to a quart or three pints, throughout the cure, and when the matter leffens, to purge at proper intervals, and put a rowel into the horfe's cheft, in order to divert the fluids from their old channel: if thefe fhould not fucceed, mercurials may be given with the phyfick; and the alterative powders with lime-water may be taken for a time, if the horfe is worth the expence. Vide Chapter on ALTERATIVES.

An EXPLANATION of the Heads and Trepan.

B. B. two lines reprefenting the bounds of the cerebellum, or back part of the brain, which is very fmall in a horfe, in proportion to that of a man, as well as the brain itfelf, which commences. from the line D.

C. C. a line where the fuperior part of the finus frontalis commences, together with with a view of the bottom of the finus, which terminates between the lines D and E, where there appears a fubftance in the form of a pear, which is the os ethmoides, or fieve-like bone; through which the olfactory nerves pafs, by which the pituitary membrane receives its fenfibility, and the fenfe of fmelling is performed.

E, reprefents the beginning of the maxillary finus, which terminates at M.

The fhaded fpace which may be obferved between thefe two lines, reprefents the great cavities. The oblique ray marked F, is a bony partition, which feparates this finus into two parts, that have no communication : and fometimes it happens (though but rarely) that there are two bony partitions; and for this reafon they are reprefented by the lines marked F and G. It alfo fometimes happens (but ftill more feldom) that there are horfes, in whofe heads we do not find any of thefe bony partitions.

N, points out the place of the cornets or horns. O, the redoubling. P, their middle part. Q, the inferior part of them.

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them. M, the bony canal or pipe which guards the maxillary nerve.

A, A, the feptum narium, or partition which divides the nofe from top to bottom, and conftitutes the two noftrils.

L, in the head that is intire, points out where the trepan should be applied on the frontal finus, when we have reason to believe the glanders is fpread into this finus. However, I think it fafeft to apply it first on E, for the reafons mentioned in the next explanation, and because the brain may be endangered, fhould the finus be miltook.

E, the place where the trepan may be applied, in order to cleanfe the maxillary finus. The round mark between D and E (which is the imprefiion of the trepan) is however on experience preferred by the author, as the propereft place; as one orifice would then be fufficient to wash all the parts both above and below, with the injection.

But in general, when the maxillary finus only is affected, penetrate but the upper part, where the fyringe points, or thereabouts, and your expectations will be K

be anfwered; fhould they not, there feems fo little danger in the operation, that you may again perforate at the places abovementioned, higher up. But a proper number of experiments will foon fettle this point with certainty.

H, in the head that is intire, points out the place where another hole or perforation fhould be made, as a drain to give iffue to the glanderous matter wafhed away by the injection; which could not be difcharged without fuch a depending orifice; and perhaps this perforation alone, in many recent cafes, would be fufficient, provided the injection paffed freely upwards, and the hole was kept open by means of a hollow leaden pipe conftantly retained in it for that purpofe, and to procure a free paffage for the matter.

I, reprefents the injection pufhed in by the fyringe, which flows out by the orifice and the noftril K; during the ufe of the fyringe, it is neceffary to hold the noftrils clofe.

If, in the maxillary finus, inftead of or e, there happens to be two bony partitions, it is abfolutely neceffary to pierce through

through them both, by means of a ftiletto, or fharp-pointed tuck, as in the manner reprefented in the cut of a horfe's head opened; though this conformation feldom occurs.

As thefe bony partitions may in fome particulars vary, fhould the ftiletto not have the defired effect, and the injection thrown in by the fyringe not come out at H; in fuch cafe the liquor fhould be injected upwards, through the orifice made by the ftiletto or trepan at H.

As in young horfes the frontal and maxillary finuffes are very fmall, it will be proper to direct the trepan towards the interior part of the nofe; otherwife theinftrument might work upon the roots of the teeth, which incline towards the finus, and would in fuch cafe be an infurmountable obftacle to the operation.

R, the inftrument or trepan. S, the handle which turns it. T, the faw-part to be applied to the bone.

From a view of this inftrument, the manner of working it will appear fimple and eafy; the cooper's managing his wimble being a proper directory.

K 2

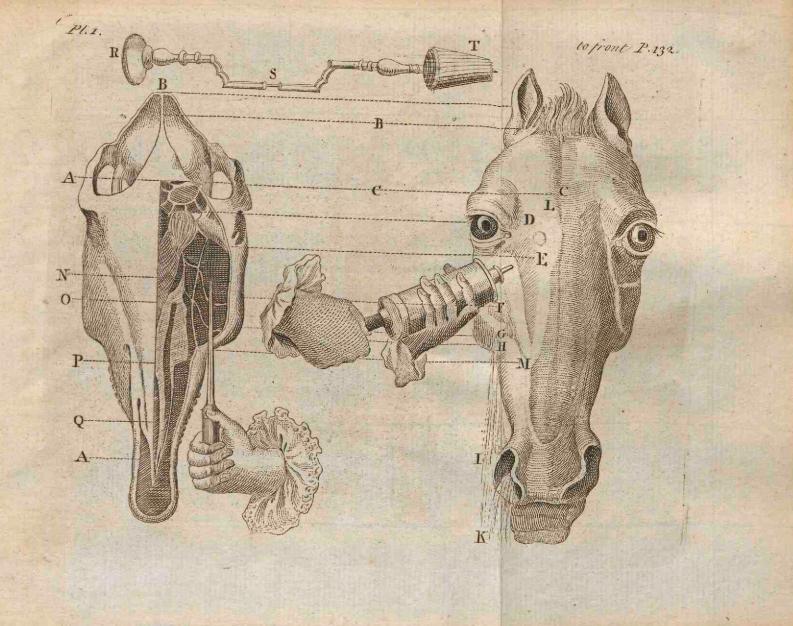
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The inftrument called the *trephine*, which is chiefly ufed by our English furgeons in perforating the skull, will equally answer this purpose; and if any difficulties should arise, notwithstanding this description, the gentlemen of the faculty will soon make it familiar and intelligible.

Before the application of the trepan, or trephine, it is quite neceflary to obferve, that a circular piece of the fkin fhould firft be cut off, with the membrane which covers the bone, about the fize of a half-crown piece; in order to make the inftrument work the eafier, and to prevent the inconveniencies which might arife from the external wound's healing up too faft.

The fyringe fhould be large enough to contain half a pint of injection.

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CHAP. XIII.

Of the CHOLIC or GRIPES, and Pains in the Bowels, from fudden Accidents.

THERE feems to be no diftemper The fo little underftood by the common gripes in farrier, as the cholic or gripes in horfes, little un-one general remedy or method ferving derflood them in all cafes; but as this diforder byfarriers. may be produced by very different caufes, the method of cure must also vary, otherwife the intended remedy injudicioufly applied, will not only aggravate the complaint, but make it fatal. We shall divide this diforder into three different fpecies ; the flatulent or windy, the bilious The diffe-or inflammatory, and the dry gripes ; each rent kinds of which we shall distinguish by their diffe- of gripes. rent fymptoms, and then point out the proper remedies.

The flatulent or windy cholic is thus The fymknown. The horfe is often lying down, ptom of and as fuddenly rifing again with a wind-cho-fpring; he ftrikes his belly with his hinder feet, ftamps with his fore feet, and . refuses K 3

Of the CHOLIC, or

refules his meat; when the gripes are violent, he will have convulfive twitches, his eyes be turned up, and his limbs ftretched out as if dying, his ears and feet being alternately very hot and cold; he falls into profule fweats, and then into cold damps; ftrives often to ftale, and turns his head frequently to his flanks; he then falls down, rolls about, and often turns on his back; this laft fymptom proceeds from a ftoppage of urine, that almoft always attends this fort of cholic, which may be increased by a load of dung preffing on the neck of the bladder.

Cribbing horfes very fubject to this cholic. Thefe are the general fyniptoms of cholic and gripes from wind, drinking cold water when hot, and when the perfpirable matter is retained, or thrown on the bowels by catching cold; in all which cafes they are violently diffended. Cribbing horfes are more particularly fubject to this complaint, by reafon they are conflantly fucking in great quantities of air.

The cure.

The first intention is to empty the ftrait gut with a fmall hand dipt in oil, which frequently makes way for the confined wind to difcharge itself; and by eafing

GRIPES, &c.

eafing the neck of the bladder, the fuppreffion of urine is taken off, and the horfe ftales and gets eafe.

Farriers generally ftrike a fleam into the bars of a horfe's mouth, which feems to be of little or no ufe; for where a quantity of blood is intended to be taken away, the veffels of this part are neither large or numerous enough to furnifh it; fo that it is more eligible to take it from the neck vein, and is always proper in full, fanguine, plethoric, young horfes.

The following ball and glyfter feldom fail of giving relief in thefe cafes.

T A K E Strafburg or Venice turpen- A ball for tine, and juniper-berries, pounded the franof each half an ounce; fal prunella, gury in or falt-petre, an ounce; oil of ju-cholic. niper one dram; falt of tartar two drams : make into a ball with any fyrup. It may be given whole, and walhed down with a decoction of juniper-berries, or a horn or two of ale.

If the horfe does not break wind, or Remark. ftale plentifully, he will find no relief; therefore in an hour or two give him ano-K 4 ther

Of the CHOLIC, or

another ball, and add to it a dram of falt of amber ; which may be repeated a third time, if found neceffary. During the fit, the horfe may be walked and trotted gently, but fhould by no means be harraffed beyond his ability, or dragged about till he is jaded.

A glyfler

The following glyfter may be given, for wind, between the balls, or alone, and repeated occafionally.

> TAKE camomile flowers two handfuls; anife, coriander, and fenel feeds, of each an ounce; long pepper, half an ounce : boil in three quarts of water to two; and add Daffy's elixir, or gin, half a pint; oil of amber, half an ounce; and oil of camomile, eight ounces.

The fublequent balls and drink are alfo very proper for this purpofe, and to remove gripes occasioned by drinking cold water when hot, or catching cold after violent exercife.

A ball for wind.

TAKE powder of anife, cumin, and fennel feeds, of each half an ounce ; camphor two drams; pellitory of Spain, one dram; oil of juniper, fifty drops:

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drops: make into a ball with any fyrup, and wafh it down with a horn or two of ale. 137

Or,

TAKE mithridate, or Venice trea- A drink cle, two ounces; Matthews's pill, for the two drams; camphor, one dram, fame. diffolved in a little fpirit of wine; powder of fresh anifeed one ounce; or the fame quantity of the cordial ball; diffolve in a pint and a half of ale.

Or,

TAKE philonium one ounce, or an Another ounce and half; tincture of fena, or drink. Daffy's elixir, and fallad oil, of each half a pint; give warm for a drink, and repeat it if neceffary.

Either of these medicines are well calculated for this purpose; but, as the ingredients may not always be ready at hand, or procurable, we shall put down a couple of drinks, that have frequently on trial been found successful, and are easily prepared. It is to be observed, that the horse should be well rubbed, cloathed, and littered with clean straw up to his belly.

TAKE

Of the CHOLIC, or

Drinks for the fame eafily prepared. T A K E of Caftile foap, or hard foap, nitre or falt-petre, of each one ounce; juniper-berries and ginger, each half an ounce; Venice turpentine or rofin, diffolved with the yolk of an egg, fix drams: mix with a pint and a half of warm ale, or a decoction of juniper-berries, with a large onion boiled with them. This may be repeated twice or thrice.

Or,

Another.

TAKE a pint of brandy, rum, or geneva, with as much fweet oil, and give for a drink. Should this not fucceed, boil an ounce of pepper or ginger in a quart of milk, and add to it a handful of falt, and half a pint of oil; this given warm, will (according to Burdon) purge in two or three hours.

Signs of a horfe's recovery. The figns of a horfe's recovery, are his lying quiet, without flarting, or tumbling, and his gathering up his legs and ceafing to lath out; and if he continues an hour in this quiet pofture, you may conclude all danger over.

The next species of cholic we shall The bidefcribe, is the bilious or inflammatory; lious or which, befides most of the preceding inflamma-tory cho-fymptoms, is attended with a fever, lic or great heat, pantivg and dryness of the gripes, mouth ; the horfe alfo generally throws described. out a little loofe dung, with a hot fealding water, which when it appears blackilh, or of a reddifh colour, and foetid fmell, denotes an approaching mortification.

In this cafe the horfe fhould immediate- The cure. ly be bled to the quantity of three quarts : and it should be repeated, if the fymptoms do not abate in few hours. The emollient glyfter, with two ounces of nitre diffolved in it, should be thrown up twice a day, to cool the inflamed bowels; plenty of gum Arabic water thould be taken, and a pint of the following drink given every two or three hours, till feveral loofe ftools are procured; and then it fhould be given only night and morning till the diforder is removed.

TAKE fena three ounces, falt of A cooling tartar half an ounce; infuse in a parging quart of boiling water an hour or drink.

Of the CHOLIC,

two; then strain off, and add two onnces of lenitive electuary, and four of Glauber falts.

Bad fymptoms.

If this diforder is not removed by these means, but the inflammation and fever increase, attended with a discharge of the flefh-coloured water above defcribed, the event will most probably be fatal : and the chief thing to be depended on now, must be a strong decoction of Jesuit's bark, given to the quantity of a pint every three hours, with a gill of red Port wine.

Aftrengthter.

A quart of the fame may be used for a ning glyf- glyfter, with two ounces of Venice turpentine, diffolved with the yolks of two eggs, an ounce of diafcordium, and a pint of red wine, and given twice a day : if the horfe recovers, give two or three mild rhubarb purges.

> To a horfe of little value give the following; which in these cases has been found fuccessful.

An alteratiya ball.

TAKE diapente one ounce, diafcordium half an ounce, myrrh in powder two drams; make it into a ball with two drams of oil of amber

GRIPES, &c.

ber, and given twice or thrice a day.

The laft we fhall defcribe is the dry The dry gripes, or the cholic, which arifes often feribed. from coffivenels: it is difcovered by the horfe's frequent and fruitlefs motion to dung, the blacknefs and hardnefs of the dung, the frequent and quick motion of his tail, the high colour of his urine, and his great reftlefsnefs and uneafinefs.

In this cafe the firait gut fhould be ex- The cure, amined, and emptied with a finall hand oiled properly for that purpofe; the emollient oily glyfter, p. 23. fhould be thrown up twice a day; and the above purging drink given, till the bowels are unloaded, and the fymptoms removed.

The diet for a horfe in the gripes The diet. fhould be fealded bran, warm watergruel, or white water, made by diffolving four ounces of gum Arabic in a quart of water, and mixing it with his other water.

From this hiftory and division of gripes Some proand cholics, with their different treat-per caudment, it appears how abfolutely necef- ons and fary it is they fhould be well underflood,

Of the CHOLIC, &c.

flood, in order to be managed skilfully: it is plain too, that violent hot medicines fhould in every species of this diforder be guarded against, and given with great caution and discretion, even in the first kind of flatulent cholic, where indeed they can only be wanted; yet too often, when prepared by the farriers, with oil of turpentine, geneva, pepper, and brine, Ge. they even increase that diforder, by ftimulating the neck of the bladder too forcibly; heating the blood, and inflam. ing the bowels, till a mortification is brought on them. These are in general the conftant appearances of horfes that die of this diforder, whole bowels being examined for that purpole, have been found inflamed, full of red and livid spots, sometimes quite blacked, crifped with extreme heat, and rotten.

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CHAP. XIV.

Of the Lax and Scouring, with other Diforders of the Stomach and Bowels,

TT is fometimes a nice matter to form A purging a proper judgment when to controul not alor encourage a loofenefs, but thefe gene- be ftopt. ral rules may be a direction : If a healthy full horfe, on taking cold, or upon hard riding, overfeeding, eating unwholefome food, or with a flight fever, should have a moderate purging, by no means think of ftopping it; but rather encourage it with an open diet, and plenty of warm gruel: but if it continues long, with gripings, mucus of the bowels coming away, and the horse losing his appetite and flefh, it is then high time to give him proper medicines : if he voids great quantities of flime and greafy matter, give him the following drench, and repeat it every other day for three times.

TAKE lenitive electuary and cream An openof tartar, cf each four ounces; ing drink. yellow

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Of the Lax and Scouring, &c.

yellow rofin finely powdered, one ounce; and four ounces of fweat oil: mix with a pint of water-gruel.

The following alterative ball alone has been found fuccefsful for this purpole, when given twice a week, with fcalded bran and warm gruel.

An alterative ball. TAKE Succotrine aloes, half an ounce; diapente, one ounce: make into a ball with the juice of Spanish liquorice diffolved in water, and a spoonful of oil of amber.

> To this may be added two drams of myrrh, and a dram of faffron, and (where lt can be afforded) half an ounce of rhubarb.

How treated with a fever. When the purging is attended with a fever, rhubarb fhould firft be given, to the quantity of half an ounce, with an ounce and half of lenitive electuary: at night, after the working, give half an ounce or more of diafcordium in a pint of red wine mulled with cinnamon, and repeat it every day, and the rhubarb ball once in two or three.

But

of the Lax and Scouring, &c.

But if the diftemper increases, the horse's flanks and belly look full and diftended, and he appears griped and in pain, let this glyfter be given, and the quantity of diafcordium increafed to an ounce, in his night-drink.

TAKE camomile flowers one hand- A reftrinful, red rofes half a handful, pomc-gent glyfgranate and balauftines, of each an ter. ounce; boil in two quarts of water to one, ftrain off and diffolve in it two or three ounces of diafcordium, and one of mithridate; to which may be added a pint of Port wine. Repeat it once a day.

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If the flux continues violent, give an Various ounce of roach-alum, with an ounce refiringent and a half of bole, twice a day : or dif drinks. folve double this quantity with two ounces of diafcordium, and the cordial ball in two quarts of hartshorn drink; to which may be added a pint of Port; and give the horfe three or four times a day a pint of this drink. For this purpofe alfo a ftrong decoction of oak bark may be given, with either of the above remedies, and to the fame quantity; even by

Of the Lax and Scouring, &c. by itfelf, it will be found on trial no inconfiderable remedy.

Particular fympton.s. When the difcharge is attended with an acrid mucus or flime, the griping and pains are very fevere; the common lining of the bowels being wafhed away; in this cafe the following glyfter fhould frequently be injected warm.

T A K E of tripe-liquor or thin flarch two quarts, oil of olives half a pint, the yolk of fix eggs well broke, and two or three ounces of coarfe fugar.

The figns Some horfes having naturally weak of indigention. Some horfes having naturally weak ftomachs and bowels, throw out their aliment indigented, their dung is habitually foft, and of a pale colour, they feed poorly, and get no flefth: to remedy this complaint, give the following purge two or three times, and then the infufion to the quantity of a pint every morning.

The flomach purge.

TAKE Succotrine aloes fix drams, rhubarb powdered three drams, myrrh and faffron each a dram: make into a ball with fyrup of ginger.

TAKE

Of the Lax and Scouring, &c.

TAKE zedoary, gentian, Winter's The bark, and orange peel, of each two ounces; pomegranate bark and balauftine, of each an ounce; camomile flowers and centaury, each a handful; cinnamon and cloves, each an ounce: infuse in a gallon of Port or firong beer.

The bloody flux is a diffemper horfes The are not very fubject to; however, as it bloody fometimes does occur, whenever blood flux deis difcharged, attended with gripings, feribed. and great pain in bowels, if the flux is not fpeedily reftrained, the horfe probably may foon be loft; we recommend therefore the following glyfter and drink for that purpofe.

TAKE oak bark four ounces, tor-Areftrinmentil root two ounces, burnt hartf- gent glyfhorn three ounces; boil in three quarts of forge-water to two: ftrain off, and add two ounces of diafcordium, four ounces of ftarch, and half a dram of opium.

A glyfter may alfo be prepared with the fame quantity of fat broth, ftarch, and opium, in order to plaifter over the L 2 coat s

Of the Lax and Scouring, Be.

coats of the bowels, and abate their violent irritations. Alfo,

A reftringing drink. T A K E foft chalk two ounces, mithridate or diafcordium one ounce, powder of Indian root half a dram, liquid laudanum fifty or fixty drops; diffolve in a pint of hartfhorn drink, and add to it four ounces of cinnamon water, or red wine. Give it twice a day.

Gum Arabic diffolved in hartshorn drink, or in common water, should be the horse's usual drink.

It may necessary in this place to A neceffary obser- observe, that those scourings that fucceed vation. long continued fickneffes, fuch as farcies, putrid fevers, or an inflamed state of blood, where proper bleedings have been neglected, in general end fatally ; especially if the discharge is a foetid flime, of a dirty brown colour like brine; and the fame matter runs from their nofes; for in fuch cafes the texture of the blood is diflolved, and the whole mais of fluids is become putrid, and runs off through these outlets: and as they refemble the colliquative diarrhœas that terminate confumptive cafes in the human body,

Of the Lax and Scouring, Ec. body, fo like them also are they incurable.

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When horfes are apt to be coffive, Remedies from whatever caufe it arifes, gentle for cofopeners fhould be given, fuch as cream tivenefs in horfes. of tartar, Glauber falts, and lenitive electuary: four ounces of any two of thefe diffolved in warm ale, whey, or water, given every other morning for two or three times will answer this purpofe; especially if affisted by an oily emollient glyfter, prepared with a handful of falt : scalded bran, or barley, with an ounce of fenugreek, and linfeed, occafionally given, will prevent this complaint. But where it is conflictutional, Obfervaand proceeds from the power and force tion, of digeftion in the ftomach and guts, as it fometimes happens, and the horfe is otherwife in perfect health, no inconvenience will arife from it ; and it is obferved that fuch horfes are able to endure great fatigue and labour.

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C H A P. XV.

OF WORMS and BOTS.

rent kinds

The diffe- A UTHORS have defcribed three different forts of worms that afof worms fect horfes, viz. Bots, which young horfes described. are often troubled with in the fpring : the Rotundi, or those refembling earthworms; and the Afcarides, or those about the fize of the largeft fewing-needle, with flat heads.

ftomachs of horfes deferibed.

Bots in the The bots which breed in the ftomachs of horfes, and are fometimes the caufe of convultions, appear to be very large maggots, composed of circular rings, with little fharp prickly feet along the fides of their bellies (like the feet of hoglice) which by their fharpnefs (like the points of the finest needles) feem to be of use to fasten them to the part where they breed and draw their nourishment, and to prevent their being loofened from fuch adhefion, before they come to maturity. The eggs from whence thefe bots are produced, are difperfed into clufters all round the lower orifice of the ftomach, and are laid under the inner coat.

OF WORMS and BOTS.

coat, or thin membrane of the ftomach; fo that when the animals come to form and life, they burft through this inner coat with their breech and tail firait outwards, and their trunks fo fixed into the muscular, or fleshy coat of the flomach, that it fometimes requires a good pull to difengage them; from the blood of this last coat they draw their nourifhment, which they fuck like fo many leeches, every one ulcerating and purfing up the part, where it fixes like a honey-comb : and they often make fuch quick havock, as to deftroy the horfe.

The fymptoms of worms are various. The figns The bots that many horfes are troubled of worms. with in the beginning of the fummer, are always feen flicking on the flrait gut, and are often thrust out with the dung, with a vellowifh coloured matter like melted fulphur; they are no ways dangerous there, but are apt to make a horfe reftlefs and uneafy, and rub his breech against the pofts. The feafon of their coming is usually in the months of May and June, after which they are feldom to be feen, and rarely continue in any one horfe above a fortnight or three weeks. Those that take their lodgment in the ftomach, are extremely dangerous, by caufing convultions; L4

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Of WORMS and BOTS.

vulfions; and are feldom difcovered by any previous figns before they come to life, when they throw a horle into violent agonies. Vide Convultions. The other kinds are more troublefome than dangerous; but are known by the following figns. The horfe looks lean and jaded, his hair ftares as if he was furfeited, and nothing he eats makes him thrive; he often strikes his hind feet against his belly, is fometimes griped, but without the violent fymptoms that attend a cholic or ftrangury; for he never rolls and tumbles, but only fnews uneafinefs, and generally lays himfelt down quietly on his belly for a little while, and then gets up and falls a feeding : but the fureft fign is when he voids them with his dung.

The cure of bots. For the cure of bots in the flomach, we have already taken notice that calomel fhould first be given in large quantities, and repeated at proper intervals; wide p 88: Æthiop's mineral, or fome of the under-mentioned forms, may be given afterwards.

But bots in the firait gut may be cured by giving the horfe a fpoonful of favin cut very fmall, once or twice a day in his oats or bran moiftened; and three or

Of WORMS and BOTS.

or four cloves of garlic may be added to advantage. Give also an aloetic purge between whiles. The following stands recommended.

T A K E fine Succotrine aloes, ten A purge drams; frefh jalap, one dram; arif-for worms tochia, or birthwort and myrrh powdered, of each two drams; oil of favin and amber, of each one dram; fyrup of buckthorn enough to form into a ball.

But as the fource of worms in gene- Thegeneral proceeds from a vitiated appetite and ral cure of a weak digeftion, recourse must first be worms. had to mercurials, and afterwards to fuch things as are proper to firengthen the ftomach, promote digeftion, and by deftroying the fupposed ova, prevent the regeneration of these animals. Thus, Mercurial two drams of calomel may be given with purges half an ounce of diapente, and mixed up proper. with conferve of wormwood over-night; and the next morning the above purge : thefe may be repeated in fix or eight days. Or the following mercurial purge may be given, which will be lefs troublefome, and no lefs efficacious.

TAKE

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Of WORMS and BOTS.

A mercurial.

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T A K E crude quickfilver, two drams; Venice turpentine, half an ounce; rub the quickfilver till no gliftening appears: then add an ounce of aloes, a dram of grated ginger, thirty drops of oil of favin, and a fufficient quantity of fyrup of buckthorn to make a ball.

One of these balls may be given every fix days, with the usual precautions in regard to mercurial physick; and these powders intermediately.

A wormpowder. TAKE powdered tin and Æthiop's mineral, of each half an ounce; give every night in a mash, or his corn.

Various worm medicines secommended.

The various preparations of antimony and mercury must be given feveral weeks together, in order to get entire riddance of these vermin. The Æthiop's mineral may be given to the quantity of half an ounce a day; the mercurius alkalifatus to two drams a day, incorporated with a bit of cordial ball. The cinnabar powders, as directed in the farcy, are no less effectual: and when worms are bred from high feeding, or unwholesome food,

Of WORMS and BOTS.

food, rue, garlick, tanfy, favin, box, and many other fimples, may be given fuccefsfully, being for that purpofe mixed with their food ; as alfo, cut tobacco, from half an ounce to an ounce a day.

As the generation of worms perhaps A bad diprincipally proceeds from a weak fto- gettion mach, and bad digeftion, if the horfe be of a tender conftitution, and a bad feeder, the following bitter drink should be given to ftrengthen his ftomach, and mend his digeftion; which will prevent the formation of thefe animals, interpoling now and then a gentle ftomach purge, prepared with an ounce and half of hiera picra made up into a ball, with fyrup of buckthorn.

TAKE gentian root, zedoary, and Aftomach galangals, of each two ounces; ca- drink. momile flowers, and tops of centaury, of each two handfuls; Jefuit's bark powdered, two ounces; filings of iron half a pound ; juniper-berries four ounces : infuse in three gallons of ale for a week, fhaking the veffel now and then; and give a pint of this night and morning.

the caufe,

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To

Of the YELLOWS, or

To answer this purpose also, an ounce of filings of steel, finely powdered, has been successfully given every day for a fortnight, or longer, in the horse's corn.

CHAP. XVI.

Of the YELLOWS, or JAUN-DICE.

The fymptoms of the jaundice deferibed.

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TORSES are frequently fubject to this diftemper : which is known by a dufky yellownefs of the eyes ; the infide of the mouth and lips, the tongue and bars of the roof of the mouth, looking alfo yellow. The horfe is dull, and refuses all manner of food; the fever is flow, yet both that and the yellownefs increase together. The dung is often hard and dry, of a pale yellow, or light pale green. His urine is commonly of a dark dirty brown colour, and when it has fettled fome time on the pavement, it looks red like blood. He ftales with fome pain and difficulty; and if the diftemper

JAUNDICE.

temper is not checked foon, grows delirious and frantick. The off-fide of the belly is fometimes hard and diftended; and in old horfes, when the liver has been long difeafed, the cure is fearce practicable, and ends fatally with a wafting diarrhœa : but when the diffemper is recent, and in young horfes, there is no fear of a recovery, if the following directions are observed.

First of all bleed plentifully; and give The cure, the laxative glyfter, p. 34. as horfes are apt to be very coffive in this diffemper; and the next day give him this purge.

TAKE of Indian rhubarb, powdered, A purge one ounce and a half; faffron, two for the drams ; Succorrine aloes fix drams ; jaundice. fyrup of buckthorn a fufficient quantury.

- If the rhubarb should be found too expensive, omit it, and add the fame quantity of cream of tartar; and half an ounce of Caltile foap, with four drams more of aloes. This may be repeated two or three times, giving intermediately the following balls and drink.

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TAKE

Of the YELLOWS; or

Theopening ball

T A K E of Æthiop's mineral, half an ounce; millepedes the fame quantity; Caflile foap, one ounce; make into a ball, and give one every day, and wash it down with a pint of this decoction.

Theopening drink, TAKE madder root and turmerick, of each four ounces; burdock root fliced, half a pound; Monk's rhubarb, four ounces; liquorice fliced two ounces: boil in a gallon of forge-water to three quarts; ftrain off, and fweeten with honey.

Balls of Castile foap and turmerick, may be given also for this purpose, to the quantity of three or four ounces a day; and will in most recent cases fucceed.

Mercurials fometimes neceffary.

By these means the diftemper generally abates in a week; which may be discovered by an alteration in the horse's eyes and mouth; but the medicines must be continued till the yellowness is entirely removed. Should the distemper prove obstinate, and not submit to this treatment, you must try more potent remedies, viz. mercurial physick repeated two

JAUNDICE.

two or three times at proper intervals; and then the following balls.

TAKE falt of tartar two ounces, cin-Alterative nabar of antimony four ounces, balls for live millepedes and filings of fteel, the jaunof each three ounces: faffron half an ounce, Caftile or Venice foap half a pound: make into balls the fize of a pullet's egg with honey, and give one, night and morning, with a pint of the above drink.

It will be proper on his recovery to give two or three mild purges, and if a full fat horfe, to put in a rowel.

CHAP. XVII.

Of the Diforders of the Kidneys and Bladder.

THE figns of the *kidneys* being hurt The fymor affected, are a weaknefs of the proms back and loins, difficulty of ftaling, of hurts in faintnefs, lofs of appetite, and deadnefs the kidneys. in the eyes; the urine is thick, foul, and fometimes

Of the Diforders of

fometimes bloody, especially aster a violent strain. A horfe difeased in his kidneys can feldom back, that is, move straight backwards, without pain, which is visible as foou as he is put to the trial: the same thing is observable indeed in horses, whose backs have been wrang and wrenched, but with this difference, that in the latter there is feldom any defect or alteration in the urine, except that it is higher coloured.

The remedy. Bleeding is the prime remedy, and that plentifully, in order to prevent inflammation, and the more fo, if a fever attends a difficulty in ftaling, for then we may fufpect the kidneys already inflamed. A rowel in the belly has been found ufeful, and the following balls may be given twice or thrice a day, with a pint of marfh-mallow decoction, in which half an ounce of gum Arabic is diffolved, with an ounce of honey.

Aftrengthning ball. TAKE Lucatelli's balfam one ounce, fperma ceti fix drams, fal prunellæ half an ounce; mix into a ball with honey: if the urine is bloody, add half an ounce of Japan earth.

Should

the Kidneys and Bladder.

Should the fever continue, bleed largely, give emollient glyfters, and the cooling opening drink, p. 32. till is abates.

If the urine paffes with difficulty and pain, notwithstanding these means, give this ball, and repeat it twice or thrice a day, till the horse states freer and without pain, his urine becomes of a right confistence, and is free from any purulent fettlement.

TAKE balfam of Copivi, or Straf-Adiaretic burgh turpentine, and Venice foap, ball. of each one ounce; nitre fix drams, myrrh powdered two drams; make into a ball with honey, and wafh it down with the marfh-mallow decoction.

But if this method should not be fuc-Observacefsful, and the urine continues turbid, tion. grows coffee-coloured or feetid, the horse losing his appetite and fless; it is a fure fign of ulceration in the kidney; which if the above remedies do not foon remove, you may depend on it the horse will go into a confumption, and is incurable.

As.

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Of the Diforders of the

The cauf- As a fuppression of urine arises somees of fup- times from an inflammation of the kidprefiion of ney; fo at others, from a paralytic difurine.

order; difabling them in their office of feparating the urine from the blood; in this latter cafe the bladder is ufually empty, fo that a horfe will make no motions to stale, and if he continues a few days in this condition, his body will fwell to a great degree, breaking out in blotches all over, and death will foon close the fcene.

The cure. If it arifes from inflammation, bleed largely, and treat the horfe as above recommended ; but if not, give ftimulating glyfters, and ftrong diuretics, fuch as the following balls, once in four hours; for if a horfe stales not in thirty hours, his danger must be great.

A ftimulating diuretic ball.

TAKE juniper-berries powdered one ounce, fal prunellæ fix drams, ethereal oil of turpentine half an ounce, camphor one dram, oil of juniper two drams; make into a ball with honey, and give after it three or four horns of the marsh-mallow decoction and honey.

Or.

Kidneys and Bladder.

Or,

TAKE fquills powdered two or three Another. drams, nitre half an ounce, or fix drams; make into a ball with honey.

Or,

The following, which is more forcing, and fhould be given with caution.

TAKE cantharides well dried, from Another one fcruple to half a dram; camphor diffolved in oil of almonds, ting. from one dram to two; nitre and Venice foap, of each an ounce; mix into a ball with fyrup of marfh-mallows.

When this last ball is given, the horfe should be made to drink plenty of water, with gum Arabic diffolved in it; the following glyster may also be given at the fame time.

TAKE of Barbadoes aloes two Affimulaounces; the fame quantity of Venice ting glyturpentine, beat up with the yolks fler. of two eggs: jalap powdered two drams; juniper and bay-berries, each a handful, bruifed and boiled M 2 in

Of the Diforders of the

in two quarts of a decoction of mallows; ftrain off, and mix by degrees with the above, to which add a pint of linfeed oil.

An embrocation and ftimulating poultice.

If the complaint is not removed by thefe means, rub the horfes reins well with two parts of oil of turpentine, and one of oil of amber; and apply a poultice of garlick, horfe-radifh, multard feed, camphor, and green foap, fpread on thick cloth, over them. Give the horfe alfo two drams of calomel over night, and a moderate purge the next morning. Thefe, perhaps, are the chief and beft remedies that can be given in this generally fatal diforder.

The flrangury how a to be treated.

When the *ftrangury* in a horfe does not arife from wind, or dung preffing on the neck of the bladder (as was obferved in the chapter on cholick) the caufe is from inflammation, or too long a retention of the urine. Such horfes make frequent motions to ftale, ftand wide and ftraddling, are full, and have their flanks diftended. In this cafe bleed largely; give the following drink, and repeat it every two hours, for two or three times, till the horfe is relieved.

TAKE

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Kidneys and Bladder.'

TAKE Venice turpentine broke with A drink the yolk of an egg one ounce, nitre for the or fal prunellæ fix drams, half a ftrangury. pint of fweet oil, and a pint of white wine.

If this drink fhould not have the defired effect, the diuretic ball above mentioned may be given in the fame manner, omitting the myrrh.

Give the horfe plenty of the marshmallow decoction; in a quart of which diffolve an ounce of nitre and gum Arabic, and two of honey.

Horfes fubject to a *diabetes*, or profufe Adiabetes ftaling, if old, or of weak conflitution, how treatare feldom cured; they foon lofe their ed. flefh and appetite, grow feeble, their coat ftaring, and they die rotten. Of a young horfe there are more hopes; but he muft not be indulged with too much water, or moift food. Give him the following:

TAKE Jefuit's bark four ounces, A drink biftort and tormentil root of each for a diatwo ounces; boil in two gallons of betes. lime-water to the confumption of M 3 half, Of the Diforders. &cc.

half, and give a pint three times a day.

Others for pole.

Let the horfe drink two or three quarts that pur- a day of lime-water ; and if these medicines should not succeed, give a quart of ftrong alum poffet, three or four times a day.

> This method is proper alfo for a horfe who stales blood; or the following balls may be given for that purpole, if the bleeding is profuse.

Balls for piffing blood.

TAKE bole armoniac one ounce, Japan earth half an ounce, roach-allum two drams, elixir of vitriol one dram; make into a ball with conferve of roles, and give it every fix hours.

As this diforder generally proceeds from too violent exercife, over ftraining, &c. repeated bleedings in fmall quantities are abfolutely neceffary, till the mouths of the veffels clofe up.

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CHAP. XVIII.

OF MOLTEN-GREASE.

B Y molten-greafe is meant a fat or Molten-oily difcharge with the dung, and greafe arifes from a colliquation or melting what, down of the fat of the horfe's body, by violent exercife in very hot weather. It The fymis always attended with a fever, heat, ptoms. reftleffnefs, flarting, and tremblings, great inward fickness, fhortness of breath, and fometimes with the fymptoms of a pleurify. His dung will be extremely greafy, and he will fall into a fcouring; his blood will have a thick fkin or fat over it when cold, of a white or yellow hue, but chiefly the latter; the congealed part, or fediment, is commonly a mixture of fize and greafe, which makes it fo extremely flippery, that it will not adhere to the fingers, and the fmall portion of ferum feels alfo flippery and clammy. The horfe foon lofes his flefh and fat, which probably is diffolved and abforbed into the blood : and those that furvive this flock, commonly grow hidebound for a time, their legs fwelling M 4 both

OF MOLTEN-GREASE.

both before and behind, and continue in this flate till the blood and juices are rectified; and if this is not done effectually, the farcy, or fome obflinate furfeit, generally follows, very difficult to remove.

The cure.

In the first place bleed plentifully, and repeat it for two or three days fucceffively in fmaller quantities; two or three rowels should also be immediately put in, and the cooling emollient glysters, p. 34. daily thrown up to abate the fever, and drain off the greasy matter from the intestines. By the mouth give plenty of warm water, or gruel, with cream of tartar, or nitre, to dilute and attenuate the blood; which in this case is greatly difposed to run into grumes, and endanger a total stantion.

Purging when neceffary. When the fever is quite gone off, and the horfe has recovered his appetite, gentle aloetic purges fhould be given once a week, for a month or fix weeks, in order to bring down the fwelled legs; but if the purgative ingredient does not exceed half an ounce, or fix drams of fine aloes, it only opens the belly gently; and, with the other medicines joined with it, paffes into the blood, acts as an alterative, and operates

OF MOLTEN-GREASE.

operates both by urine and perspiration ; as will appear by the horfe's staling plentifully, and the kindly feel of his fkin. To this end give the following, which, repeated for fome time, will entirely remove this diforder

TAKE of Succotrine aloes fix drams, An alteraof gum guaiacum powdered half an tive purge ounce, of diaphoretic antimony, and powder of myrrh, of each two drams: make into a ball with fyrup of buckthorn.

Or, it may be prepared with an ounce of aloes, fix drams of diapente, and a spoonful of oil of amber.

Thefe will feldom take a horfe from his business above two or three days in a week ; neither will he lofe his flefh or appetite with them ; but, on the contrary, mend in both : which cannot be obtained by any other method of purging; and gives this greatly the preference in many cafes.

Two ounces of nitre mixed up into a Alterative ball with honey, and a dram of camphor, balls. will also be found an excellent medicine for this purpofe, as it will powerfully attenuate the blood, and promote the due

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Of Surfeits, Mange, and

due fecretions ; to which end it fhould be given every day for a fortnight, or three weeks.

CHAP. XIX.

Of Surfeits, Mange, and Hide-Bound.

OUrfeits arife from various caufes : but are commonly the effects of fome difeases not attended to, or that have been ill cured.

Surfeits

A horfe is faid to be furfeited, when defcribed. his coat ftares, and looks rufty and dirty, though proper means has not been wanting to keep him clean. The fkin is full of fcales and dander, that lays thick and mealy among the hair, and is conftantly fupplied with a fresh succession of the fame, for want of due transpiration. Some horfes have hurdles of various fizes, like peas or tares ; fome have dry fixed fcabs all over their limbs and bodies : others a moisture, attended with heat and inflammation; the humours being fo fharp,

Hide-Bound.

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fharp, and violently itching, that the horfes rub fo inceffantly, as to make themfelves raw. Some have no eruptions at all, but an unwholefome look, and are dull, fluggifh, and lazy; fome appear only lean and hide-bound; others have flying pains and lamenefs, refembling a rheumatifm: fo that in the furfeits of horfes, we have almost all the different fpecies of the fcurvy and other chronical diftempers.

The following method is ufually at-The cure. tended with fuccels in the dry fpecies. First take away about three or four pounds of blood; and then give the following mild purge, which will work as an alterative, and should be repeated once a week, or ten days, for fome time.

TAKE Succotrine aloes fix drams, or An alteraone ounce; gum guaiacum half an tivepurge. ounce; diaphoretic antimony, and powder of myrrh, of each two drams: make into a ball with fyrup of buckthorn.

In the intermediate days, an ounce of the following powder should be given, morning and evening in his feeds.

TAKE

Of Surfeits, Mange, and

ative powders.

The alter- TAKE native cinnabar, or cinnabar of antimony, finely powdered, half a pound; crude antimony, in fine powder, four ounces; gum guaiacum alfo in powder, four ounces : make into fixteen doles for eight days.

> This medicine muft be repeated till the horfe coats well, and all the fymptoms of furfeit difappear. If the horfe is of fmall value, two or three common purges fhould be given, and half an ounce of antimony, with the fame qauntity of fulphur, twice a day, or the alterative balls with camphor and nitre, as directed in the preceding chapter.

If the little fcabs on the fkin do not peel off, anoint them with the mercurial ointment; during the time of using which, it will be proper to keep the horfe dry, and to give him warm water. This ointment properly rubbed into the blood, with the affiftance of purging phyfick, has frequently cured thefe kind of furfeits, without any other affiftance.

The

The wet furfeit, which is no more than The moitta moift running fcurvy, appears on diffurfeit daferent parts of the body of a horfe, attended fometimes with great heat and inflammation; the neck oftentimes fwells fo in one night's time, that great quantities of a hot briny humour iffues forth, which, if not allayed, will be apt to collect on the poll or whithers, and produce the poll-evil or fiftula. This difeafe alfo frequently attacks the limbs, where it proves obflinate, and hard to cure; and in fome horfes fhews itfelf fpring and fall.

In this cafe bleed plentifully, avoid The care, externally all repellers, and give cooling phyfick twice a week; as, four ounces of lenitive electuary, with the fame quantity of cream of tartar; or the latter, with four ounces of Glauber falts, quickened, if thought proper, with two or three drams of powder of jalap, diffolved in water-gruel, and given in a morning fafting.

After three or four of these purges Nitre retwo ounces of nitre made into a ball with commendhoney, may be given every morning for ed, a fortOf Surfeits, Mange, and a fortnight; and, if attended with fuccefs, repeated for a fortnight longer.

How given.

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The powders above-mentioned may alfo be given with the horfe's corn; or a ftrong decoction of guaiacum fhavings, or logwood, may be given alone to the quantity of two quarts a day. Thefe, and indeed all alterative medicines, mult be continued for a long time, where the diforder proves obftinate.

Hidebound, how treated,

The diet fhould be cool and opening, as fealded bran or barley; and if the horfe is hide-bound, an ounce of fenugreek feeds fhould be given in his feeds for a month or longer: and, as this diforder often proceeds from worms, give the mercurial phyfick too, and afterwards the cinnabar powders, as above directed; but as in general it is not an original difeafe, but a fymptom only of many, in the cure, regard must be had to the first cause: thus, as it is an attendant on furfeits, fevers, worms, $\mathcal{Ec.}$ the removal of this complaint must be variously effected.

The In a mangy horfe the fkin is generally mange de tawny, thick, and full of wrinkles, efpeferibed. cially about the mane, the loins, and tail; and

Hide-Bound.

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and the little hair that remains in those parts flands almost always flraight out or briftly: the ears are commonly naked and without hair, the eye and eyebrows the fame; and when it affects the limbs, it gives them the fame afpect; yet the fkin is not raw, nor peels off, as in the hot inflamed furfeit.

Where this diftemper is caught by in-How fection, if taken in time, it is very eafily cared. cured: and I would recommend a fulphur ointment as most effectual for that purpofe, rubbed in every day. To purify and cleanse the blood, give antimony and fulphur for some weeks after. There are a great variety of external remedies for this purpose, such as train-oil and gunpowder, tobacco steeped in chamber-lye, tSc. Soleysel recommends the following.

TAKE burnt alum and borax in Ointment fine powder, of each two ounces; for the white vitriol and verdigreafe powdered, of each four ounces; put them into a clean pot, with two pounds of honey, flirring till they are incorporated; when cold, add two ounces of flrong aqua fortis.

But

Of Surfeits, Mange, and

But when this diforder is contracted by low feeding, and poverty of blood, the diet muft be mended, and the horfe properly indulged with hay and corn. The following ointments are effectually ufed for this diforder, rubbed into the parts affected every day.

Ointments for the mange.

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T A K E powdered brimftone, train-oil, and tar, of each equal quantities; to which may be added ginger, or white hellebore.

Or,

T A K E fulphur vivum half a pound, crude fal Armoniac one ounce, hogslard, or oil, a fufficient quantity to form into an ointment.

Or,

TAKE quickfilver, and oil of vitriol, of each one ounce; hogs-lard one pound, fulphur vivum four ounces, oil of turpentine one ounce and half.

These are both very powerful remedies for this diforder, and can scarce fail of fuccess.

To the two first, occasionally, may be added a third part of mercurial ointment; but as fulpher is in general allowed to be the specific in the itch, and being found both more fafe and efficacious than mercury, fo we apprehend it will fufficiently answer the purpose here; for as this diforder feems best accounted for by Lewen- Observahoeck, from certain fmall infects he dif- tion. covered in the puftules by the microfcope; fo it feems as if they were deftroyed by the fleams of brimftone, though only raifed by the heat of the body; for in the human body, the itch may be cured by partial fulphureous unctions on the legs only; but where the mange proves ob-. flinate in horfes, let the parts be washed with the fublimate water in Chap. xxv. before the application of the ointment, and fubjoin the internal ufe of fulphur, in order to diffuse the steams more certainly through the fkin; there being reason to believe, as in the itch, that the animalcula may fometimes lie too deep, to be thoroughly deftroyed by external applications only.

N

CHAP.

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CHAP. XVII. Of the FARCIN or FARCY.

The farcy THE true farcy is properly a diftemdeferibed. per of the blood veffels, which generally follows the track of the veins, and when inveterate, thickens their coats and integuments, fo that they become like fo many cords. I shall not describe the different forts of farcies, feeing they are only degrees of one and the fame diftemper; but proceed to paint the diftemper by its fymptoms, which are pretty manifest to the eye.

Thefymp. toms.

At first one or more finall fwellings, or round buds like grapes or berries, fpring out over the veins, and are often exquifitely painful to the touch; in the beginning they are hard, but foon turn into foft blifters, which, when broke, difcharge an oily or bloody ichor, and turn into very foul and ill-disposed ulcers. In fome horfes it appears on the head only; in fome on the external jugular; in others on the plate vein, and runs downwards on the infide of the fore-arm towards

towards the knee, and very often upwards towards the brifket; in fome the farcy fhews itfelf on the hind parts, about the pafterns, and along the large veins on the infide of the thigh, rifing upwards into the groin and towards the fheath; and fometimes the farcy makes its appearance on the flanks, and fpreads by degrees towards the lower belly, where it often becomes very troublefome.

When the farcy appears on the head When only, it is eafily cured; efpecially when most fait is feated in the cheeks and forehead, vourable. the blood-veffels being here fmall; but it is more difficult when it affects the lips, the noftrils, the eyes, and kernels under the jaws, and other foft and loofe parts, efpecially if the neck vein becomes corded. When it begins on the outfide of the fhoulder or hips, the cure is feldom difficult; but when the farcy arifes on the plate vein, and that vein fwells much, and turns corded, and the glands or kernels under the arm pit are affected, it is hard to cure; but more fo when the crural veins within-fide of the thigh are corded and befet with buds, which affect the kernels of the groin, and the cavernous body of the yard. When the farcy begins on the pafterns or lower No limbs,

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limbs, it often becomes very uncertain unlefs a timely ftop is put to it; for the fwelling in those dependent parts grows fo excellively large in fome conflitutions, and the limbs fo much disfigured thereby with foul fores and callous ulcerations, that fuch a horfe is feldom fit for any thing afterwards, but the meaneft drudgery: but it is always a promifing fign, wherever the farcy happens to be fituate, if it fpreads no further. It is ufual to affect only one fide at a time, but when it paffes over to the other, it fhews great malignancy; when it arifes on the fpines, it is then for the most part dangerous, and is always more fo to horfes that are fat and full of blood, than to those that are in a more moderate cafe. When the farcy is epidemical, as fometimes happens, it rifes on feveral parts of the body at once, forms rafty foul ulcers, and makes a profule running of greenifh bloody matter from both noftrils; and foon ends in a miferable rot.

General fpecifics of little. ufe. From this defcription of the farcy, it will appear how greatly those may be disappointed, who depend on some single specific drink or ball for a certain cure; for the symptoms are sometimes to favourable, that it is easily conquered by a very

very fimple management; and when it arifes fuperficially upon the fmaller veffels, it will often go off with moderate labour without any other means than bleeding. Such inftances as thefe mayeafily give a reputation to things of no great efficacy, and bring them into efteem; but whoever has acquired any true notion of the farcy, will know that this diffemper is not to be conquered but by fuch things as are fitly adapted to the various fymptoms that occur in the different ftages of it. To avoid therefore the perplexity that arifes from the various complications fo ufual in the farcy, we shall confider it in its different states, or degrees, viz. when it feizes only the fmaller veffels; when the larger veins are corded, and the feet, pafterns, and flanks affected; and laftly, when the farcy, beginning on one fide only, breaks out on the other alfo, and affects the whole body.

When the farcy makes its first ap- The first pearance on the head, it rifes on the flage of cheeks and temples, and looks like a net- the farcy. work, or fmall creeping twigs full of berries. Sometimes it inflames the eye, and fometimes little blifters or buds run along the fide of the nofe. It arifes often on

N 3

on the outfide of the fhoulder, running along the fmall veins with heat and inflammation; and fometimes a few fmall buds appear near the withers, and on the outfide of the hip. In all thefe appearances, the difeafe being fuperficial, and affecting only the fmaller veffel, is eafily conquered by the following method, when taken in time; for the fympleft farcy, if neglected, may degenerate into the worft fort.

Bleeding almost always necessary.

This diftemper then being of an inflammatory nature, and in a particular manner affecting the blood-veffels, muft neceffarily require large bleeding, particularly where the horfe happens to be fat and full of blood. This always checks the beginning of a farcy, but is of fmall fervice afterwards; and if a horfe is low in flefh, the lofs of too much blood fometimes proves injurious. After bleeding, let the horfe have four ounces of cream of tartar and lenitive electuary; which may be given every other day for a week, to cool the blood, and open the body; and then give nitre three ounces a day, for three weeks, or a month; and anoint the buds and fwellings with the following ointment twice a day.

TAKE

TAKE ointment of elder four ounces, An ointoil of turpentine two ounces, fugar ment for of lead half an ounce, white vitriol the buds. powdered two drams; mix together in a gallipot.

The buds fometimes by this method are dispersed, leaving only little bald fpots, which the hair foon covers again. When they break and run, if the matter be thick and well digefted, they will foon be well; but in order to confirm the cure, and to difperfe fome little lumps which often remain for fome time on the fkin without hair, give the liver Liver of of antimony for a month; two ounces antimony a day for a fortnight, and then one a recomday for the other fortnight: by follow- mended. ing this method, a farcy which affects only the fmall vefiels, may be ftopped in a week or ten days, and foon after totally eradicated.

When the farcin affects the larger When the blood veffels, the cure is more difficult; larger but let it always be attempted early: veins are therefore, on the plate, thigh or neck the core veins appearing corded, bleed imme- is more diately on the oppofite fide, and apply difficult. the following to the corded vein.

N 4.

TAKE

A liniment to anoint the corded veins.

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T A K E oil of turpentine in a pint bottle fix ounces; oil of vitriol three ounces; drop the oil of vitriol into the oil of turpentine by little at a time, otherwife the bottle will burft; when it has done fmoking, drop in more oil of vitriol, and fo on till all is mixed.

This mixture is one of the beft univerfals in a beginning farcy; but where it is feated in loofe fleihy parts, as the flanks or belly, equal parts of the oil of vitriok and turpentine are neceffary.

How ufed.

Rub the parts first with a woollen cloth, and then apply fome of the mixture over the buds, and wherever there is any fwelling, twice a day. Give the cooling phyfick every other day, and then three ounces of nitre every day for fome time. This method must be continued till the buds digeft, and the cord diffolves; and when the fores run plentifully, the matter digefts well, and the lips and edges are no ways thick or callous, may expect a fpeedy recovery; yet to confirm the cure, and prevent a relapfe, give the liver of antimony, or crude antimony, as above directed; and to

Of the FARCIN or FARCY. to heal the fores and fmooth the fkin. drefs with bees-way and oil.

When the farcy begins on the flanks, The farcy or towards the lower belly, it often takes on the its rife from a fingle puncture of a fharp difficult fpur. The pain and fmarting is one fure of cure. fign to diftinguish the farcy from common accidents: the flaring of the hair, which flands up like a tuft all round the buds or blifters, and the matter that iffues from the buds, which is always purulent and of a clammy, greafy confiftence, are other certain figns. After bathing with the mixture above-mentioned till the ulcers are fmooth and healing, fhould the fwelling not fubfide, to prevent the fpreading of the buds, and to difperfe them, bathe with either of these mixtures as far as the center of the belly; and at the fame time give a coarfe of antimonials, as will prefently be prefcribed.

TAKE fpirits of wine four ounces; Difeut-oil of vitriol and turpentine, of each repelling two ounces; white wine vinegar or wafnes. verjuice, fix ounces.

Or,

Or the following:

TAKE fpirits of wine rectified four ounces, camphor half an ounce, vinegar or verjuice fix ounces, white vitriol diffolved in four ounces of fpring water, one ounce; mix together.

The farcy how diltinguithed from thegreafe.

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In the lower limbs the farcy lies, fometimes concealed for a great while, and makes fo flow a progrefs, that it is often mistaken for greafe, or for a blow or kick, and goes by the general appellation of an humour fettled there. In order to diffinguish the one from the other. we fhall observe, that a kick or bruife is generally attended with a fudden fwelling, or a contused wound, which for the most part digefts easily: the greafe is alfo a fmooth fwelling that breaks cut above the bending of the pafterns backwards; but the farcy begins on the paftern joint ufually with one bud, and runs upwards like a knotty crab-tree.

The general method of eure. Very fimple means has fometimes ftopped it, before it has begun to fpread; a poultice with bran and verjuice bound round the part, and renewed once a day, will often alone fucceed; and if proud flefh

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flesh should arife, touch it with oil of vitriol, or aqua fortis, an hour before you apply the poultice; for when the diffemper is local, as we suppose it here, it is to be conquered by outward applications.

When the diffemper grows inveterate, and refifts the obove method, and the vessels continue corded. Gibson recommends the following mixture.

TAKE linseed oil, half a pint; oil A mixture of turpentine and petre, of each for an inthree ounces; tincture of euphor-farcy. bium and hellebore, of each two drams: the foldier's ointment, two ounces, or oil of bays; oil of origanum, half an ounce; double aqua fortis, half an ounce; after the ebullition is over, add two ounces of Barbadoes tar.

Rub this into the corded veins, and wherever there is a fwelling, once in two or three days; but if the orifices are choaked up with proud flefh, or the fkin fo much thickened over the ulcers How the as to confine the matter, in either cafe it buds is neceffary to make an open paffage dreffed. with a fmall hot iron, and deflroy the proud

proud flefh, after which it may be kept down by touching with oil of vitriol, aqua fortis, or butter of antimony. A falve may alfo be prepared with quickfilver and aqua fortis, rubbing any quantity of the former with enough of the latter to the confiftence of a liniment; fimear the ulcers with this whenever they appear foul, and you will find it preferable to most other eating med cines.

Cautions in regard to the ufe of fublimate.

Our farriers, after opening the buds, put in ufually a finall quantity of corrofive fublimate or arfenick, which they call coring out the farcy: this may answer where the buds are few, and not fituated near large blood-veffels, joints, or tendons; others use roman vitriol, or fublimate and vitriol, in equal quantities; but let it be remembered, that many a horfe has been poifoned by thefe medicines ignorantly ufed, and in too large quantities; which should be a caution to huntfinen not to fuffer their hounds to feed on the carcafes of farcied horfes, as the greatest part of a pack have been poifoned by that means.

Very defperate methods uled in

I fhall now mention fome of the defperate methods, and more violent kinds of medicines given by fome internally: 4 thus,

thus, from four to eight ounces of lapis the cure calaminaris, to which two ounces of tutty of the finely powdered is added, with other me- farcy. tallic substances, have been given. Some give a pound of barrel foap boiled in Itale beer, with favin, rue, and other herbs of that intention. Others go yet further, being determined to kill or cure, by giving drinks prepared with green vitriol, roach-allum, Roman vitriol, oil of vitriol boiled in chamber-lye, with hemp-feed, hemlock and common falt. Those who use nothing but the decoctions or juices of herbs, fuch as wormwood, rue, or elder particularly, ftand a much better chance for a cure, if given in time; but when the diffemper is grown inveterate, nothing comes in competition with mercurial and antimonial medicines.

The following balls are proper in every flate of the farcy, and when the diftemper has been in its infancy, before the fkin was much defaced, has often cured it in a week or two, by giving them only once or twice a day: but in an old farcy they fhould be given for two or three months together.

TAKE

The alterative balls

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TAKE of native cinnabar, or cinnabar of antimony, eight ounces; long birthwort and gum guaiacum powdered of each four ounces; make into a pafte with honey, and form into balls of the fize of a large walnut, and roll them in liquorice powder.

Mercurials generally fucceisful. when given

The tedioufnefs of this courfe has encouraged the giving of mercurials, and indeed where they are directed with skill, they must be attended with fucces; the ftronger preparations, as the red and with skill, white precipitates, and turbith, being combined with fharp faline parts, may be hazardous aud injurious; but the latter given in fmall quantities have been found very fuccefsful in fuch kind of inveterate diforders. Mr. Gibson fays, he has given it to a dram at a dole, where the limbs have been greatly fwelled; that in fortyeight hours the fores were all dried up, and the limbs reduced : but that it made the horfe fo violently fick for feveral days, and fcoured him to fuch a degree, that it could not be repeated.

One would have thought that the fuc-Turbith cefs attending this medicine fo fuddenly, fhould be given in might have encouraged Gibson to have Mail made

made further trials in fmaller quantities, quantities which had he done, it is more than pro- at a time. bable he would not have been difappointed: for the grand fecret in giving mercurials as alteratives, is the introducing them into the blood, without operating on the flomach and bowels; and to do this effectually, they muft be given in fmall quantities, and fo bridled, as to controul their force on the first passages: taken in this manner, they will mix gradually with the blood and juices, and operate both effectually and fafely.

The method I would recommend is as Balls with follows: give one fcruple or half a dram turbith of turbith, mixed into a ball with an reconaounce of Venice loap, every other night for a fortnight; then ablain a week or ten days, and repeat it again. Should this ball purge, or make the horfe fick, mix it up with two drams of philonium, or with four or five grains of opium, or camphor; with these restrictions it may be given for fome weeks; but should the horfe's mouth be found tender or fore, you must refrain giving, till that complaint is removed by gentle purges; and then return to it again in fmaller quantities; for as the effects of mercurials are very different in the different conftitutions.

mended.

IQI

tutions, both of horfes as well as men; fo the quantity must be varied, in proportion to the operation, which is not intended here to be fensible, but to work imperceptibly on the blood and juices, correcting them as a powerful alterative: during the whole courfe, particular care should be taken that he gets no cold. *Vide* Chapter on ALTERATIVES.

An alterative mercurial ball. Two ounces of quickfilver divided with an ounce of turpentine, and made up into four balls, with diapente and gum guaiacum of each two ounces, and a fufficient quantity of honey, have for this purpofe been fuccefsfully given, one ball twice a week; but gentle purgatives fhould be interpofed, to prevent a falivation, which fome horfes are very prone to, on taking mercurials, though in fmall quantities.

Dr. Bracken recommends the knots and cords to be rubbed with the mercurial ointment before they break, in order to difperfe them, and after breaking, to drefs the fores with equal parts of Venice turpentine and quickfilver: if by thefe means the mouth fhould become fore, treat as above.---This method feems to be effectual with proper care.

The

The following is also recommended by the fame gentleman.

TAKE butter of antimony and be-Analterazoar mineral, of each one ounce; tive ball. beat up with half a pound of cordial ball, and give the bignefs of a walnut, or three quarters of an ounce, every day for two or three weeks, fafting two or three hours after it.

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As most preparations from antimony are of use in the farcy, so from two drams of antihecticum Poterii to half an ounce, may be given with a bit of cordial ball, every other day, for some time; for in these obstinate cases the very crass of the blood must be altered, which can only be effected by degrees, and of course is a work of time.

We fhall here take notice of what is Thewater called the water farcy, which has no re- farcy, or femblance to a true farcy, either in its dropfy. caufe, fymptoms, or effects, but has only obtained this name through cuftom and ignorance.

This water farcy then is of two kinds; The dropone the product of a feverifh difpolition, fy of two O termi-kinds, 194

Of the FARCIN or FARCY.

terminating on the fkin, as often happens in epidemical colds; the other is dropfical, where the water is not confined to the belly and limbs, but fhews itfelf in feveral parts of the body, by foft fwellings, yielding to the preflure of the finger. This laft kind ufually proceeds from foul feeding, or from the latter grafs and fog, that often comes up in great plenty with continual cold rains, and breeds a fluggifh viscid blood. In the former cafe, I have feen the limbs and whole body enormoufly fwelled, and very hard, the belly and fheath greatly diftended; which were as furprizingly reduced in four and twenty Scarifying hours, by flight fearifications, within fide the leg and thigh, with a fharp penfometimes knife, and three or four frokes on the fkin of the belly on each fide the fheath; from these searifications there was a conftant and furprizing large dripping of water, which foon relieved the horfe; when a few purges compleated his recovery.

The geders.

the fkin,

very effec-

tual.

In the other species of dropfy, the curaneral cure tive intentions are to discharge the water, cal difor- recover the crafis or ftrength of the blood, and brace up the relaxed fibres throughout the whole body. To this end, purge once a week or ten days; and give intermediately

Of the FARCIN or FARCY. mediately either of the following drinks, or balls.

T A KE black hellebore frefh gather-An alteraed, two pounds; wafh, bruife and tivedrink. boil in fix quarts of water to four; then firain out the liquor, and put two quarts of white wine on the remaining hellebore, and let it infufe warm forty-eight hours; then firain off, mix both together, and give the horfe a pint night and morning.

TAKE nitre two ounces, fquills pow- The diadered, three drams, or half an ounce; retic balls. camphor one dram, honey enough to form into a ball: to be given once a day alone, or wafhed down with a horn or two of the above drink.

TAKE of the leaves and bark of elder, A diuretic of each a large handful; camo-drink. mile flowers half a handful, juniper berries bruifed two ounces: boil in a quart of water, to a pint and a half; to which add honey and nitre, of each one ounce.

Give this drink every night, or night and morning; and to compleat the cure, and firengthen the whole body, give a O 2 pint

pint of the fublequent infusion every night and morning for a fortnight, fasting two hours after it.

Aftrengthning drink.

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T A K E gentian root and zedoary, of each four ounces; camomile flowers and the tops of centaury, of each two handfuls; Jefuits bark powdered, two ounces; juniper berries, four ounces; filings of iron, half a pound : infufe in two gallons of ale for a week, fhaking now and then the veffel.

Before we clofe this chapter, we think proper to lay down the fymptoms of an incurable farcy, that the owners of fuch horfes may fave themfelves unneceffary expence and trouble in their endeavours to obtain a cure.

The fymptoms of or by neglect, has fpread and increased, an incurable farcy. and after long continuance refifted the medicines above recommended; if fresh buds are continually fprouting forth, while the old ones remain foul and illconditioned; if they rife on the fpines of the back and loins; if the horfe grows hide-bound, and runs at the nofe; if abfceffes are formed in the fleshy parts between

tween the interflices of the large mufcles; if his eyes look dead and lifelefs; if he forfakes his food, and fcours often, and his excrements appear thin and of a blackifh colour; if the plate or thigh vein continues large and corded after firing, and other proper applications, thefe fymptoms denote the diftemper to have penetrated internally, and that it will degenerate into an incurable confumption: it is moft probable alfo, that the whole mafs of fluids are tainted, and become irremediable by art.

CHAP. XXI.

Of Alterative Medicines.

B Y alteratives, or altering medicines, What is are to be underftood fuch as, having no immediate fenfible operation, gradually gain upon the conftitution, by changing the humours or juices from a ftate of diftemperature to health. This intention in fome cafes may perhaps be effected by correcting the acrimony of O_3 the

the juices, and accelerating the blood's motions; and in others by attenuating, or breaking its particles, and dividing those cohefions which obstruct the capillaries, or finer veffels; and fo promote the due fecretions of the various fluids. It is certain that many have but an indifferent opinion of a medicine, that does not operate externally, and gratify their fenses with a quantity of imagined bumours injected from the body : but let fuch people remember, that there are good humours as well as bad, which are thrown off together; that no evacuating medicine has a power of felecting, or feparating the bad from the good: and confequently that they are thrown out only in a proportionate quantity. These few hints may be fufficient to convince the judicious reader of the great advantages arifing from alteratives, and the preference due to them, in most cases, over purgatives; unlefs it could be proved, as already mentioned, that the latter could cull out, and feparate from the blood the bad bumours folely, leaving the good behind ; but this elective power has long been justly exploded as ridiculous and uncertain, fince it is plain, that all kinds of purging medicines differ only in degree of ftrength, and operate otherwife upon different ually efficacious bumours,

Are often to be preferred to purges.

humours, than as they ftimulate more or lefs.

We shall therefore take this opportu- Nitre renity of recommending fome alterative commedicines, which are not fo generally mended as known as they ought to be; and that tive. too on the fureft grounds, a proper experience of their good effects in repeated trials. The first then is nitre, or purified falt-petre, which has long been in great efteem, and perhaps is more to be depended on in all inflammatory fevers than any other medicine whatever: but befides this extensive power of allaying inflammatory diforders, it is now offered as a remedy, taken in proper quantities, as an alterative for furfeits, molten-greafe, hide-bound, greafe-heals, &c. And, as it has been known to fucceed even in the cure of the farcy, what other diftempers in horfes, arifing from vitiated fluids, may it not be tried on, with a ftrong probability of fuccefs ? This great advantage will arife from the ufe of this medicine over most others, that, as its operation is chiefly by urine, it requires no confinement or cloathing; but the horfe may be worked moderately throughout the whole courfe. This medicine has been found equally efficacious (by 04 many

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Of Alterative Medicines.

many trials made in one of our holpitals) in correcting the acrimony of the juices, and difpoling the most obstinate and inveterate fores to heal up; and hence probably it came recommended as an alterative to our horse,

Obfervations on them.

One of our most eminent physical writers is very copious in the praise of this medicine, and my Lord Bacon had fo high an opinion of it, that he believedit would prolong life; it is very certain, that it is a great refifter of putrefaction, which our very cooks are no ftrangers to: if then it will preferve the flefh of dead animals, why not the blood and juices of living ones? That it renders them more fluid, may be proved by mixing a folution of it with blood fresh drawn, which will not only prevent the coagulation, but change its very colour, from a dark black to an elegant florid red, and preferve it fo for fome time. Malpighius has informed us, that he injected it into the very blood-veffels of a dog, where it intimately mixed with the blood without any detriment, or remarkable alteration, except a more copious discharge of urine. Its power also of deftroying worms is very remarkable. In fhort, a more ufeful medicine perhaps fcarce exifts, and there 19

is no doubt to be made, when it comes into more general use, its own merit and good effects will fufficiently recommend itself. We should not have prefumed to fay fo much in its favour, were we not thoroughly convinced of its great utility, and believe it to be, in many cafes, one of the best and fafest alteratives we have.

We have already taken notice of its A good great efficacy in removing fevers, and medicine think that in the beginning of colds, in colds. (which are the forerunners of fevers) was this medicine given early, inftead of pectoral drinks, or the ufual balls, those complaints would be much fooner removed, without incurring any danger of the diftemper's fettling on the lungs, which the tampering too long with those forts of medicines too often lays a foundation for: we must confess it would be a difficult undertaking, to perfuade most farriers, that their healing drinks, or horfe balls, are very improper on thefe occafions, but more efpecially when given at first; but gentlemen will readily perceive the force of reafon, when they find that the intention here aimed at, is to cool and attenuate in general the whole mais of fluids; by which method, the.

the blood, which is now become too thick to circulate freely through the finall veffels of the lungs (and is the original caufe both of the cough, ftuffing up, and laborious breathing) is rendered fufficiently fluid for that purpofe, by the use of this medicine; as all the fecretions are promoted by it at the fame time.

Nitre. given.

too mile

The quantity of nitre given at a time how to be fhould be from two to three ounces a day; let it be finely powdered, and then mix with it, by little at a time, as much honey as will form it into a ball; give it every morning fafting for a month; or it may be given at first for a fortnight only, intermitting a fortnight, and then repeat it. If it be observed that the horse shews an uneafinefs at the ftomach after taking it, a horn or two of any liquor should be given after it, or it may be diffolved at first in his water, or mixed with his corn : though the ball, where it agrees, is the eafieft method of giving.

> Befides the mercurial medicines recommended in the farcy, which we have already animadverted on ; in very obftinate cafes, the following method of giving turbith has been found extremely fuccefsful, after

Of Alterative Medicines. after bleeding the horfe twice or thrice, if full of blood, and in fiefh.

TAKE turbith mineral one dram, A mercucamphor half a dram, diapente half rial alteraan ounce; make into a ball with tive, honey.

Give one of these balls every other morning for a fortnight; reft a fortnight, and then repeat them in the fame manner. During this courfe, the horfe fhould be kept warm, in order to heighten the peripiration; and particular care should be taken that he catches no cold : let him be bled once in ten days about two quarts ; and those days the balls are omitted, take him out for half an hour, if the weather is fair, and when he comes in, let him be well curried for an hour ; after this courfe is finished, give him a quart of hemp-feed in his corn every day for a month: but as the horfe's mouth will probably be fore, his feed should be boiled oats, barley, and fcalded bran.

As the operation of mercurials both Mercuriin men and horfes is very precarious, if als operate uncertainly horfe, or purges him, inftead of the diapente, mix it up with two drams of philonium,

lonium, or half a scruple of opium, or camphor; fhould it affect his mouth fo much as to render him incapable of eating even foft food, the purging drink should be given him, fo as to procure three or four ftools every day, and the ball forborn till this complaint is removed. But this medicine, I think, may in fome horfes fucceed better, by giving the turbith in lefs quantities, and for a longer time, a fcruple every night, or half a dram every other night; which method I think fafeft to begin with, in order to judge of the horfe's conftitution; and as we have more particularly explained in the chapter on FARCY. After this course, a strong decoction of guaiacum, or the alterative powders, thould be given for a month; or limewater may be given for his conftant drink, at first mixed with his water, afterwards alone.

The guaiacum decoction may be prepared thus:

The fweetning drink.

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TAKE of the fhavings of guaiacum two pounds, liquorice root fliced four ounces, crude antimony, grofly powdered, and put into a bag, one pound; boil in three gallons of fpring water for Of Alterative Medicines. for an hour, and keep the decoction upon the ingredients in a clean earthen pan for use.

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This is both a cheap and efficacious In what medicine in all foulness of the fkin, and cafes to be very proper to be given after a course of given. mercurials; for it will fweeten and correct the blood and juices, and, by promoting the fecretions, dry up fuperfluous humidities on particular parts, as in the ftrangles, all glandular diforders, and old running fores. Four horns full fhould be given twice or thrice a day, and continued two or three months in obstinate cafes, intermitting now and then a week, that the horfe may not be cloyed with continual drenching.

When horfes take drinks with great reluctance, powders muft be given in their feeds; thus crude antimony, or liver of antimony finely powdered, may be given to the quantity of half an ounce, night and morning; but in all furfeits, gum guaiacum mixed with antimony is found more efficacious. Thus,

TAKE of crude antimony finely The alpowdered, or, where it can be af-terative forded, cinnabar of antimony, and gum

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gum guaiacum, of each a pound ! mix together with an oily peftle, to prevent the gum's caking: divide the whole into thirty-two dofes, viz. an ounce each dofe: let one be given every day in the evening feed.

Or, in bold an Par b- incitato

An altera- TAKE of cinnabar of antimony, gum tive ball. guaiacum, and Caftile or Venice foap, of each half a pound; falt of tartar four ounces; beat them up into a mass, and give an ounce every day. To thefe may be added very advantageoufly, an ounce and a half of camphor.

Thefe are excellent alterative medicines, particularly for furfeited horfes; they will rectify the fluids, open the horfe's hide, promote the fecretions, and make him coat well; they will likewife fufe and thin the blood, and therefore are extremely proper when the juices are too vifcid and fizy, which often occafion lameness in various parts : in fhort, thefe fort of medicines are to be preferred to most others of this kind, as they are given with greater fafety, and

Of Alterative Medicines. and require no confinement, or particular diet.

They feem well calculated alfo for run- Are proning-horfes (efpecially the latter) whofe per for fluids of courfe, from the violence of horfes. their exercife, are often subject to great alterations; which will with more fafety. and lefs inconvenience, be remedied by these means, and a gentle alterative purge given once a week or ten days, than the ufual method of treating them with ftronger purgatives ; which befides difqualifying them for their exercise for some time, will not alone answer this intention, till the blood has been faturated with medicines of this kind.

Æthiop's mineral given to the quantity Æthiop's of half an ounce a day, is a very good mineral fweetener and corrector of the blood apt to fali-and juices; but it has been observed, af-horses. ter having been taken a week or ten days, to make fome horfes flabber, and unable to chew their hay and oats; and the fame fymptoms have arofe, where only two drams of crude mercury has been given, and continued about the fame fpace of time.

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Whenever

The caufe.

Whenever therefore mercurial preparations are given to horfes, they fhould be well attended to, and fufficient intervals be allowed, to prevent a flux on the mouth and nofe. The reafon why thefe kind of mercurials will flux horfes fooner than men, may be owing to the mouths of the lacteals in horfes being more open, large and free, than those in men; whose orifices may alfo be furred up by vifcid oily things, to which inconveniences horfes are not fo liable, by reafon of their fimple diet; besides, the horizontal situation of the guts of horfes may contribute not a little to it, by preventing the mercury from paffing through them fo quick as in men; and the depending fituation of the horfe's head, may occafion its being fo foon affected, when the blood is once faturated with mercurial particles.

Impracticable to falivate horfes. But as it has been found impracticable to carry a horfe through a falivation, or even to keep him one week under it, by reafon of the great plenitude or fullnefs brought on all the veffels of the head, fo that the horfe can neither chew his food, nor fwallow liquids; whenever fuch fymptoms appear, the medicine muft be Of Alterative Medicines. be laid afide, till by purging, as before mentioned, they are removed.

The following mercurial alterative ball may be given under the above reftrictions, in obflinate cafes.

TAKE crude mercury one ounce, An altera-Venice turpentine three drams; rub tive merthem together in a mortar, till the curialball. quickfilver is thoroughly divided, and then add of gum guaiacum, finely powdered, two ounces; diagridium in powder half an ounce: mix with honey, and divide into eight balls: give one every other night for a month, or longer. During this courfe, care fhould be taken that the horfe gets no cold, for which it is beft profecuted in fummer.

As may also the following antimonials in the like cafes.

TAKE of the glass of antimony, Alterative finely powdered, two ounces; crocus antimonimetallorum, finely powdered, four ounces; Venice foap fix ounces: make into twelve balls with honey, and give one every night.

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Be Lind white, sill by

Purging medicines given in fmall quantities are alfo good alteratives.

The great inconveniences that attend the purging of horfes in the ufual manner, make the following method of giving those kind of medicines eligible in most cases; for though their operation by the bowels is thereby greatly leffened, yet the other fecretions are more advantageoully increased; for by giving them in fmall quantities, or combined with alteratives adapted to the cafe, they pafs into the blood, and (as has been before explained) act more powerfully, by breaking the cohefions of the vifcid fluids. cleanfing the finer veffels, where probably obstructions are formed, than when they act more fenfibly on the bowels.

Thus in furfeits, flying lameneffes, $\mathcal{C}c$. give the following mass divided into eight balls; one may be taken twice or thrice a week, according to their operation.

An alterative purge TAKE lenitive electuary eight ounces, jalap and fcammony powdered, of each one ounce; cinnabar, and gum guaiacum, of each two ounces; camphor half an ounce, fyrup of buckthorn a fufficient quantity to form them.

4

Or,

TAKE aloes fix drams, gum guai- Forms of acum half an ounce, diaphoretic fuch medicines. two drams; make into a ball with any fyrup.

Alfo,

TAKE the fineft Succotrine aloes half an ounce, or fix drams; cream of tartar half an ounce; powder of jallap and falt of tartar, of each one dram: make into a ball with oil of amber.

One of these may be given every week for a month or fix weeks, with scalded bran, and warm water; the first day it will operate by urine, the next day both ways, but very gently by stool, unless it should meet with a redundancy of slime in the bowels.

Six drams of aloes, with half an ounce Alterative of diapente and falt of tartar, may be purges. given as an alterative purge in moltengreafe, \mathfrak{S}^{c} .

Or,

Or,

Hiera picra and coloquintida with falt of tartar may be given in the fame manner; and for obftructions in the lungs, and to thick-winded horfes, take the following.

A gentle purge for thick wind. Galbanum, Ammoniacum, and affa fœtida, of each two drams; fine aloes half an ounce, or fix drams; faffron one dram; honey a fufficient quantity.

But, as we have already occafionally offered various forms of this kind, we fhall avoid giving here any more fpecimens.

Forms of diet drink. A decoction of log-wood, prepared like that of guaiacum, is alfo fuccessfully given in furfeits.

Lime-water, prepared with flavings of faffaphras and liquorice, is a good diet drink, to fweeten and correct a horfe's blood; and may be given with the nitre balls for that purpofe.

Tar-warter alfo, as has before been hinted, may in many cafes be well worth trial:

OF HUMOURS:

trial: but let it be remembered, that all medicines of this kind fhould be continued a confiderable time, in obstinate cafes.

CHAP. XXII.

OF HUMOURS:

THE word bumours (which has an The term unbounded latitude both in physick humours and farriery, and is too often a proper but little fanctuary for the ignorant to fly to in flood. both professions) seems to be strangely misapplied, and in general but little underftood; otherwife it would not be fo indeterminately used as it is, when the diforder is not in the fluids, but merely in the veffels.

Thus it is often affirmed, that bumours Vervimfall down on the limbs, when with more properly propriety it might be faid, they cannot faid fomefo well rife up, or circulate fo freely in times to perpendicular as in diagonal canals; for fall down. the force of the heart is the fame, whether to raife a column of blood in an upright or

P 3

Swellings often owing to relaxed veffels.

or horizontal direction, though it is not the fame in refpect to the fituation of the veffels : for when any animal is erect, the blood veffels in the legs are more on a ftretch by far than when he lies down; in the legs and if the veffels are in a lax ftate naturally, or relaxed by external injuries, they are not able to propel the fluids forward, and hence from a retarded circulation arifes a fwelling in the part affected.

> Dr. Bracken (to whom all true lovers of horfes are much indebted for the pains he has taken to explode falle notions, and embellish true ones) has endeavoured to fet this matter in the clearest light; which indeed he has done to the fatisfaction of the unprejudiced, and of every one who can understand, and does not wilfully fhut his eyes on fo clear a doctrine.

The ftudy of anatomy abfolutely

It would be to little purpole therefore to enforce it, unless the reader would be at the pains to form to himfelf a clear neceffary. idea of the blood's circulation, with the fecretions from it; and confider the folids as composed of elastic fibres, or fpringy threads, which are fometimes in a lax or loofe state, and at others in a tight or firm one.

This

This knowledge would foon convince him, that the extreme parts may be fwelled without humours falling down upon them, from a difficulty in the circulation (as before explained) to puth on blood in perpendicular columns, or from a laxity of the veffels themfelves.

In order to make this doctrine as fa- The fallmiliar as poffible, let us fuppofe that a ing down man, or horfe, in perfect health, whofe of hu-mours ex-blood and juices are in the beft condi-plained tion, receives a violent blow on the leg, by a fathe confequence of which is a bruife, and miliar fwelling: if the limb of either is kept in cafe. a perpendicular fituation with little or no motion, the fwelling will continue; and we may fay, if we pleafe, the bumours are fallen into it: but change only the polition, and continue the limb of either in a fupine or level one; the fwelling will then foon abate, and the bumours difappear. In this cafe, where were the bumours before the accident; how came they fo fuddenly to the injured limb, and fo foon to difappear ? Is it not more rea-fonable to fuppofe the fwelling arofe from accounted a retarded circulation in the part injured, for from the veffels by the violence of the blow retarded having loft their tone, and were fo pre- circula. terna- tion. P4

Exemplified in dropfical habits.

ternaturally diftended by the ftagnantblood, that a free circulation through the part was thereby interrupted; and that this fwelling would have continued, had not the obftruction been removed by a different pofture, affifted by proper applications? and is it not obvious in dropfical, and other fwellings, in the extreme parts, from lax fibres, that though the legs fhall be enormoufly fwelled, after having been in an erect pofture all the day; yet that after laying twelve hours in a fupine one, they fhall recover their natural fhape?

This is by no means intended to prove, Theblood and juices that there are no bad humours, or juices, often viin the blood, or that they do not attend, tiated. and affect fome particular parts; (daily experience would contradict fuch an affertion, particularly in cancerous, fchrophulus, venereal, and fcorbutic cafes in the human body, and the farcy, furfeits, strangles, &c. in horfes ;) but only to guard against the promiscuous use of the term, and to evince, that in many cafes where the humours are faid to abound, and cause swellings, the fault is in the veffels, which have not force enough to propel the circulating fluids, or a perpendicular column of blood; as often

happens

OF HUMOURS. happens to the veffels of the legs and extreme parts.

Thus we fee that a languid circulation, Limbs relaxed veffels, and want of muscular may be power to puth on the fluids, may, by re-without tarding the circulation, occasion fwellings humours. in the extreme parts, without any fufpicion of bad humours, or the blood's being at all in fault. This might be farther illustrated by those fwellings in man, called the piles, where the afcent of the venal blood interrupted by its own weight, the want of force in the veffels, and of affiftance from the circumiacent parts to pulh on the circulation : but, we hope, what has already been faid, will fufficiently anfwer our defign.

The inference to be drawn from hence The cure is, that the cure must be differently di- must be rected when the fwelling proceeds from directed the blood and juices, and when from the accordfolids or veffels. In the former cafe, evacuations and alteratives are neceffary to leffen their quantity, and rectify their quality; in the latter, externals, proper exercife, and good diet.

Conformably fwelled legs, arifing from Muft be poverty of blood, laxity of veffels, and varied in different low habi

low diet, would be increafed by evacuations, and cured by recruiting the conflitution. But fwelled legs from a großs conflicution, where the veffels are too replete, and the blood in bad condition, will feldom be cured without bleeding, purging, roweling, and alteratives; unlefs, perhaps the horfe is turned out to grafs.

humours ftrangely farriers.

The word To treat this fubject properly, and prove in a strict fense what ought to be abufed by underftood by the word humours, would take up more time than the brevity we have prescribed ourfelves will admit on; but thefe hints may be fufficient to expose the abfurd cant of farriers, who are eternaily mifapplying a term they by no means understand, and making the word humours fubfervient to all purpofes.

tions on

Obferva- We shall conclude this chapter however with observing, that there are more humours, than thirty different juices, or bumours, conftantly floating in, and feparated from the blood; the chief of which are the bile, perspirable matter, fweat, faliva, urine, lymph, feed, &c. which, when properly mixed and thrown off in due quantity from it, are extremely neceffary to the health, and welfare of the animal; but

OF HUMOURS.

but when once perverted, irregularly carried on, or fuppreffed, they then become noxious, and are productive of many and various diforders. Thus from an obstruction of the bile, the yellows, How they St. Anthony's fire, eryfipelatous fevers become and fwellings may be occafioned; the con- noxiousfequence of fo acrimonious a fluid mixing unduly with the blood : by colds, or a fudden checking of fweats, or perfpiration, that matter which fhould freely flow off through the pores, is fuddenly thrown back on the blood, which increases its quantity, and vitiates its quality; from hence the ferum of the blood may become acrid and fharp; the mass of fluids in general may thus be tainted, and by thickening, form obstructions in the glands, or fine veffels : the other juices, or humours, may also be perverted by various caufes, as foul feeding, improper diet. &c. and produce variety of difeafes, by rendering the blood too thick, thin, or acrimonious. Thus much we have thought neceffary to observe in relation to humours; wherein may be obferved, how much the term is mifunderftood and abused; as in their natural state, they are not only amicable, but neceffary : yet when obstructed or perverted, they are the caufe of almost all difeases :

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OF ROWELLING.

difeafes; that, in fine, health confifts in a due temperature, or mixture of them, and the predominancy of any one, is fufficient to excite a morbid flate in that conflictution.

CHAP. XXIII.

OF ROWELLING.

Rowelling HERE feems to be no remedy fo defined. HERE feems to be no remedy fo much made ufe of, and fo little underftood by farriers in general, as rowels; for which reafon we fhall endeavour to fet the whole affair in a clearer light, than hitherto it has appeared in.

> We shall begin then by defcribing rowelling, which is an astificial vent made between the skin and steff, in order to unload and empty the vessels in general, and thereby relieve particular parts, when too much oppressed by a fulness or redundancy.

Thegeneral notion concerning rowels ling, in fome meafure makes this chapter abfurd.

OF ROWELLING.

the more neceffary, as it is too notorious how impertinently they talk on this fubject: for, in fhort, with them, a rowel is to draw off all the bad and corrupt humours from the blood, by a fort of magick.

It is neceffary to obferve, that the matter generally difcharged by a rowel, is nothing more than an ouzing from the extremities of the veffels divided in the making of it; in fact then, it is blood, which lofes its colour, by being fhed out of the veffels, the warmth of the part, and its confinement.

If this is granted, it will evidently ap- The afe pear, that the good effects enfuing this of rowels, operation muft be owing to a gradual depletion, or emptying of the veffels in general; by which means the furcharge, or load on a particular part, is taken off and removed; and impurities, or bad juices (generally called humours) run off with the good in proportion to their quantity in the blood.

To imagine *particular bumours* are Particular thus feparately, and alone difcharged humours from the blood, through thefe orifices, not difis an opinion but too generally received, by them. though

OF ROWELLING.

though a very abfurd one; and muft be very pernicious in its confequences, from the bad effects it may have in practice; as muft the fame reafoning alfo in regard to purging.

Rowels, when improper.

Thus to lean hide-bound horfes, and those of a dry hot conflictution, the difcharge, by depriving the conflictution of fo much blood and fluids, is daily exhaufting the ftrength of the animal, and may be productive of bad confequences, by defrauding the conflictution of a neceffary fluid.

When proper. But in diforders from fulnefs, attended with acrimony, or fharpnefs of the juices, and with defluxions on the eyes, lungs, or any part of confequence; the gradual difcharge, brought on by thefe means, will contribute to leffen the fulnefs on the parts affected, and give the veffels an opportunity of recovering their tone, while evacuating and alterative medicines are doing their office.

Obfervasions. It may be neceffary, however, to obferve, that there is a wonderful communication between the veffels of the cellular membrane under the fkin, which remarkably appears, by inflating those of fheep,

OF ROWELLING.

theep, calves, &c. by the butchers; hence probably it is that fome diforders of this integument are fo apparently relieved by iffues, or rowels, without our having any recourse to that general depletion of the veffels, we have just obferved, to account for it; and hence alfo How ufemay be deduced their utility, fometimes fulin in draining off any extravafed fluids, firains. which may lodge between the interffices of the mulcles, after violent strains of the shoulder; also in discharging such vitious, or fharp fluids, as are thrown on the membranes, and occasion those flying pains, and lameneffes, which we find are often removed by this local remedy.

These observations, with some few interfperfed in the preceding chapters, it is hoped, will be of fome ufe to reconcile a very vague term to fome meaning.

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CHAP.

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CHAP. XXIV.

Of Strains in Various Parts.

· 101 131

fcribed.

Strainsde- TT is neceffary to observe, that in all Arains, the mulcular or tendinous fibres are overftretched; and fometimes ruptured, or broke. To form therefore a true idea of these diforders, let us first confider every muscle and tendon as composed of fpringy, elastic fibres, which have a proper power of their own to contract and extend themfelves; or, to make their action more familiar, let us compare them to a piece of catgut, that we may the better judge with what propriety oily medicines are directed for their cure. Thus then, if by a violent extension of this cat-gut, you had fo overftretched it, as to deftroy its fpringinefs or elafticity, and was inclined to recover its loft tone; would you for that purpofe think of foaking it in oil? And for frains, is not the method of treating ftrains, or overstretched muscles and tendons, full as prepofterous, when you bathe or foak them in oily medicines, at a time that they want reftringents to brace them up? Yet

Oily medicines improper

Yet cuftom has fo eftablifhed this practice, and fallacious experience feemingly fo confirmed it, that it would be a difficult tafk to convince the illiterate and prejudiced, of the abfurdity; who, by attributing effects to wrong caufes, are led into this error, and the oils ufurp the reputation that is due only to reft and quiet : they feem, however, to be aware of the ill confequences, by their adding the hot oils, as fpike turpentine, and origanum; which though they in fome measure guard againft the too fuppling quality of the other oils, yet the treatment is ftill too relaxing to be of real fervice.

And indeed, in all violent ftrains of Bandage either tendon or mufcles, whatever opinion we may entertain of bathing and firains. anointing with favouring noftrums, which often fucceed in flight cafes, where perhaps bandage alone would have done; yet it is the latter, with proper refting the relaxed fibres, till they have thoroughly recovered their tone, that are the chief things to be depended on; and frequently fome months are neceffary for effecting the cure.

Q

All

Time and All violent ftrains of the ligaments, turning to which connect the bones together, efpegrafs often cially those of the thigh, require time,

and turning out to grafs, to perfect a recovery. External applications can avail but little here, the parts affected laying too deep, and fo furrounded with mufcles, that medicines cannot penetrate to them. The fooner, in these cases, a horse is turned out to grafs, the better, as the gentle motion in the field will prevent the ligaments and joint-oil from thickening, and of courfe the joint itfelf from growing fliff; nor do I believe that firing, fo commonly practifed in this cafe, is of half the confequence as reft, and turning out for a confiderable time; which, by the bye, is always advifed at the fame time the horfe is fired. I could not avoid faying thus much, in order to fhew the great advantages of reft in all ftrains, and that no horfe fhould be worked till he is thoroughly recovered.

The figns When a horfe's fhoulder is overftrained, of a firained he does not put out that leg as the other, but to prevent pain, fets the found foot hardily on the ground to fave the other; even though he be turned fhort on the lame fide, which motion tries him the moft

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most of any. When trotted in hand, instead of putting his leg forward in a right line, he forms a circle with the lame leg; and when he stands in the stable, that leg is advanced before the other.

In order to cure this lamene's, first The cure. - bleed him, and let the whole shoulder. be well bathed three times a day with hot verjuice or vinegar, in which may be diffolved a piece of foap; but if the lamenes continues without swelling, or imflammation, after refling two or three days, let the muscles be well rubbed for a confiderable time, to make them penetrate, with good opodeldoch, or either of the following mixtures.

T A K E camphorated spirits of wine, Mixtures two ounces; oil of turpentine, one for strains. ounce; this proportion will prevent the hair coming off.

Or,

TAKE the best vinegar, half a pint; fpirit of vitriol, and camphorated spirit of wine, of each two ounces.

When the fhoulder is very much fwell- A fomened, it fhould be fomented with wollen tation. Q 2 cloths

cloths (large enough to cover the whole) wrung out of hot verjuice and fpirit of wine; or a fomentation prepared with a ftrong decoction of wormwood, bayleaves, and rofemary; to a quart of which may be added half a pint of fpirit of wine.

Boring and pegging condemned.

A rowel in the point of the shoulder in this cafe often does great fervice; efpecially if the strain has been very violent, and the fwelling very large ; but as to boring up the fhoulder with a hot iron, and afterwards inflating it, is both a cruel and abfurd treatment; and the pegging up the found foot, or fetting on a patten-fhoe, to bring the lame shoulder on a stretch, is a most preposterous practice, and directly calculated to render a horfe incurably lame; for it can only be neceffary in cafes the very oppofite to this, where the mufcles have been long contracted, and we want to ftretch them out.

Reftringent poultices very proper in ftrains.

Where poultices can be applied, they al- are at first undoubtedly very effectual, y after bathing with hot vinegar or verjuice, and are to be preferred greatly to cold charges, which, by drying fo foon on

on the part, keep it stiff and uneasy: let them be prepared with oatmeal, ryeflower, or bran, boiled up in vinegar, ftrong beer, or red wine lees, with lard enough to prevent their growing ftiff; and when by thefe means the inflammation and fwelling is brought down, bathe the part twice a day with either of the above mixtures, opodeldoch, or camphorated fpirits of wine; and roll the part three Bandage or four inches, both above and below, advised. with a ftrong linen roller, of about two fingers width; which will contribute not a little to the recovery, by bracing up the relaxed tendon; and perhaps is more to be depended on than the applications themfelves.

As opodeldoch is varioufly made, and those usually fold in the shops do not feem to well calculated for horfes, we shall infert the following, as better adapted to this purpole, and recommend it to be kept ready prepared for the use of the ftable; it being not only very proper for the above use, but for bruiles, cold fwellings, benumbed parts, and for difperfing many other fuch fort of tumours : it may occafionally alfo be given internally for the gripes from wind, or taking cold; for the strangury, alfo and as a cordial : Q3

cordial; one ounce or more may be taken for a dole in a pint of ale.

A warm liniment, or opodeldoch. T A K E Jamaica pepper, four ounces; Winter's bark, caraway feeds, laurel, and juniper-berries bruifed, of each two ounces; rofemary, marjoram, and lavender flowers, of each one ounce; rectified fpirit of wine, three pints: let them digeft in a warm place ten days, then ftrain off the tincture, and diffolve in it Venice foap a pound and a half; camphor, three ounces; Barbadoes tar, four ounces; oil of turpentine, fix ounces; oil of amber, two ounces: mix and make a liniment.

Signs of ftrains in the coffin. In ftrains of the *coffin-joint*, that have not been difcovered in time, there will grow fuch a ftiffnefs in the joint, that the horfe will only touch the ground with his toe; and the joint cannot be played with the hand: the only method here is repeated bliftering, and then firing fuperficially.

Strains in Strains of the back finews are very the back common, and are eafily difcovered by howknown the fwelling, which extends fometimes and cured, from the back fide of the knee down to the

the heel, but for the most part the horse fets that leg before the other. The tendon should be well bathed three or four times a day with hot vinegar; and if much fwelled, apply the poultices above recommended; and when the fwelling is down, bathe with the mixtures above, or with camphorated fpirit of wine and oil of amber, in which is diffolved as much camphor as the fpirits will take up; and roll up the tendon with a proper bandage, or laced flocking; which laft properly fitted to the limb, might be wore to great advantage, not only in these fort of injuries, but in most others, where there is a difposition to the greafe, or other fwellings of the limbs, from weak and relaxed fibres. Currier's fhav- Remedies ings wetted with vinegar have been found for ftrains ufeful for this purpole : as has alfo tar and spirit of wine; but where the tendon has fuffered by repeated injuries of this kind, the cafe will demand bliftering, firing, and proper reft.

Strains of the knees and pasterns arife fre- Strains of quently from kicks, or blows; if they are the knees much fwelled, apply first the poultices; and pafterns, and when the fwelling is abated, bathe with the above, or the following.

Q 4

TAKE

Mixtures for ftrains, TAKE vinegar, one pint; camphorated fpirits of wine, four ounces; white vitriol, diffolved in a little water, two drams.

TAKE the whites of three or four eggs, beat them into a froth with a fpoon; to which add an ounce of roach-alum, finely powdered; fpirit of turpentine, and wine, of each half an ounce: mix them well together.

The following is alfo much recommended by the French writers, and has been found very fuccefsful in fome old ftrains, when other remedies have failed.

A poultice for old ftrains. T A KE one pound of tar, and two of rectified fpirit of wine : flir them together over a fire till they incorporate (but take care the flame does not catch the fpirits :) then add two ounces of bole, finely powdered ; and a fufficient quantity of oatmeal to bring it to the confiftence of a poultice; to which add lard enough to prevent its growing dry : apply it ipread on cloth twice a day.

Or,

As great weaknefs remains in the paf-Turning terns after violent ftrains, the beft method out to is to turn the horfe out to grafs till he is proper. perfectly recovered ; when this cannot be complied with the general way is to blifter and fire.

When a horfe is lame in the *ftifle*, he The figns generally treads on his toe, and cannot of lamefet the heel to the ground. Treat him at nefs in the firft with the vinegar and the cooling re-*Aifle*. ftringents; but if a large fwelling, with puffinefs, enfues, foment it well with the difcutient fomentation till it difperfes; and then bathe the part with any of the above medicines.

A lamenefs in the *whirle-bone* and The figus hip is difcovered by the horfe's drag-of lameging his leg after him, and dropping nefs in the backward on his heel when he trots. If *whirl*backward of his heel when he trots. If *bone*, the mufcles of the hip are only injured, this kind of lamenefs is cured eafily; but when the ligaments of the joint are affected, the cure is often very difficult, tedious, and uncertain. In either cafe, at firft bathe the parts well with the cooling medicines, four or five times a day; in the mufcular ftrain this method alone may fucceed; but in the ligamentous, it is

Of Strains in Various Parts. is reft and time only can reftore the injured parts to their proper tone.

Strains in the hock.

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Strains in the back are to be treated by foaking the parts with coolers and repellers; but when the ligaments are hurt, and they are attended with great weaknefs and pain, ufe the fomentation. a hardness should remain on the outlide, it may be removed by repeated bliftering; if within it may be out of the power of any external applications to remove ; however, the joint should be fired gently with fmall razes or lines pretty clofe together, and then covered with a mercurial plaister. To the discutient fomentation above mentioned may be added crude fal armoniac, with a handful of wood afhes boiled in it.

The bliftering ointment for the above purpofes may be found in the chapter of *Bone-Spavin*; but the fublimate fhould be omitted.

Firing for The *firing* ufed for the ftrengthening ftrains on the finews how it only on the fkin, which by contracting fhould be and hardening it all round the finews, performed. The bow men of old fubmitted

to

to this operation, in order to give firength to the muscles and tendons of their arms. A proper degree of skill is very requifite to perform it effectually on a horfe; for a due medium should be obferved, and the inftrument neither fo flightly applied, as to fcarify the fkin only fuperficially, nor fo deep as to wound or cauterize the finew or its fheath : in the former cafe, the wounds not penetrating the fkin at all, the fcars would not be hard enough to act with a fufficient preffure on the tendon; and in the latter, the fire being given too deep, might flough off the tendon itfelf, the confequence of which would be a lofs of fubstance, and of course a lameness would enfue from a contracted finew. The lines should be drawn pretty close together on each fide of the joint or finew, following the courfe of the hair ; no crofslines fhould be made, as they but disfigure the horfe afterwards, without any real ufe. The firing inftrument, or knife, ought to be a little rounded on the edge, gradually thickening to the back, that it may retain the heat for fome time. but fhould not be applied till the flaming rednefs is partly gone off. The cauterized parts may be bathed with fpirit of wine at first, and anointed afterwards with bees-

OF TUMOURS and

bees-wax and oil; which alone is fufficient to complete the cure.

CHAP. XXV.

OF TUMOURS and IMPOSTHUMES.

UMOURS, or fwellings arife either from external injuries, or internal caufes.

Swellings from external caufes, how treated.

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Swellings caufed by external accidents, as blows and bruifes, fhould at firft be treated with reftringents; thus let the part be bathed frequently with hot vinegar or verjuice, and, where it will admit of bandage, let a flannel wetted with the fame be rolled on; if by this method the fwelling does not fubfide, apply, efpecially on the legs, a poultice with red wine lees, ftrong-beer grounds, and oatmeal, or with vinegar, oil, and oatmeal; either of thefe may be continued twice a day after bathing, till the fwelling abates; when, in order to difperfe it entirely, the vinegar

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vinegar fhould be changed for camphorated fpirit of wine, to four ounces of which may be added one of fpirit of fal armoniac; or it may be bathed with a mixture of two ounces of crude fal armoniac boiled in a quart of chamber-lye, twice a day, and rags dipped in the fame may be rolled on.

Fomentation made by boiling worm-Fomentawood, bay-leaves, and rolemary, and tions often adding a proper quantity of fpirits, are neceffary. often of great fervice to thin the juices, and fit them for transpiration; especially if the injury has affected the joints.

But in bruifes, where the extravafated blood will not by these means be difperfed, the shortest way is to open the skin, and let out the grumes.

Critical tumours, or fwellings, which Observaterminate fevers, should by no means be tion. dispersed; except when they fall on the pastern or coffin-joint, so as to endanger them: in this case the discutient fomentation, p. 227. should be applied three or four times a day, and a cloth or flannel frequently wrung out of the same should be bound on, in order to keep the joint continually breathing.

But

Critical fwellings fhould be brought to matter.

But if the fwelling fixes under the jaws, behind the ears, on the poll, withers, or in the groins and sheath, &c. it should be encouraged and forwarded by ripening poultices, wherever they can be applied; oatmeal boiled foft in milk, to which a proper quantity of oil and lard is added, may answer this purpose ; or the poultice recommended in the chapter of Strangles : thefe may be applied twice a day till the matter is perceived to fluctuate under the fingers, when it ought to be let out; for which purpofe let the tumour be opened with a knife, or ftrong launcet, the whole length of the fwelling, if it can be done fafely; for nothing contributes fo much to a kind healing, as the matter's having a free difcharge, and the openings being big enough to drefs to the bottom.

The fore how dreffed. Pledgets of tow fpread with black or yellow bafilicon (or the wound ointment) and dipped in the fame, melted down witha fifth part of oil of turpentine, fhould be applied to the bottom of the fore, and filled up lightly with the fame, without cramming; it may be thus dreffed once or twice a day, if the difcharge is great, till a proper digeftion is procured,

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cured, when it fhould be changed for pledgets fpread with the red precipitate ointment, applied in the fame manner.

Should the fore not digeft kindly, but Fomentarun a thin water and look pale, foment tions and as often as you drefs, with the above fo- poultices mentation; and apply over your dreffing recommended the ftrong-beer poultice, and continue mended this method till the matter grows thick, digettion. and the fore florid.

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The following ointments will generally answer your expectations in all common cases, and may be prepared without, as well as with, the verdigrease.

T A K E Venice turpentine and bees- The wax, of each a pound; oil of olives, wound one pound and a half; yellow rofin, ^{ointment} twelve ounces: when melted together, two or three ounces of verdigreafe, finely powdered, may be flurred in, and kept fo till cold, to prevent its fubfiding.

TAKE of yellow bafilicon, or the The red above ointment, without verdi-precipigreafe, four ounces; red precipitate, tate ointfinely powdered, half an ounce : mix ment. them Of **TUMOURS** and them together cold, with a knife or fpatula.

This laft, applied early, will prevent a Howufed. fungus, or proud flefh, from flooting out; for if you drefs too long with the above digeftive, the fungus will rife faft, and give fome trouble to fuppress it ; when it will be neceffary to walh the fore, as often as you drefs, with a folution of blue vitriol in water, or to fprinkle it with burnt alum and precipitate. If thefe fhould not be powerful enough, touch with a cauftick, or wash with the The fublin fublimate water, made by diffolving half matewafh. an ounce of corrofive fublimate in a pint of lime-water.

Ob'ervation.

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But this trouble may in a 'great meafure be prevented, if the fore is on a part where bandage can be applied with comprefies of linen cloth : for even when these excress regerminate, as it were, under the knife, and spring up in spite of the causticks above mentioned, they are to be subdued by moderate compresfion made on the sprouting fibres, by these means.

Wherein authors are deficient Authors on farriery have in general given very proper receipts to answer every every intention of this kind by medicines; but as they have not, I think, laid down fufficient rules for their application in those cafes where they are most wanted, I hope the following general directions will not be unacceptable ; as the difficulty in healing fome kinds of fores arifes frequently from the unskilful manner of dreffing them.

It may be neceffary then to observe How fores here once for all; that the cures of most found be fores are effected by the fimpleft methods, and that it is often of much more confequence to know how to drefs a fore, than what to drefs it with; and in this confifts indeed the chief art of this branch of furgery; for the most eminent in that profettion have long fince difcovered, that variety of ointments and falves are unneceffary in the cure of most wounds and fores, and they have accordingly difcarded the greatest part, formerly in repute for that purpole; repeated obfervations having taught them, that after the digeftion, nature is generally difpofed to heal up the wound fast enough herfelf, and that the furgeon's chief care is to prevent a luxuriency commonly called proud flefb; which all ointments, wherein lard or oil enters, are but too R prone

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prone to encourage, as they keep the fibres too lax and fupple: and which dry lint alone, early appled, as eafily prevents, by its abforbing quality, and light compression on the forouting fibres.

Some particular directions for that rp of e.

Thus, if a hollow wound or fore is crammed with tents, or the dreffings are applied too hard, the tender fhoots of flefh from the bottom are prevented puffaing Jp; and the fides of the fore in time from this diffention may grow horny, and turn fiftulous : nor has the matter by this method a free difcharge.

On the other hand, if fores of any depth are dreffed fuperficially, the external parts being more difpoled to heal and come together than the internal, they will fall into contact, or heal too foon; and the fore not filling up properly from the bottom, will break out afrefh.

Hence we may juftly conceive what little ftrefs is to be laid on famous ointments, or family falves, unfkilfully appled; for unlefs this due medium is obferved, or obtained in the dreffing, no hollow fore can heal up properly.

I thought

IMPOSTHUMES.

I thought it neceffary to be a little ex- Frequent plicit on this head, as gentlemen fo fre- difapquently complain of being difappointed pointin their cures, notwithstanding the ex-happen cellency of their ointment, or balfam; from drefand to convince them, that lefs confidence fing unfhould be put in these favourite medicines than is generally imagined; for where the habit is found, and the blood and juices in good condition, there are few fimple dreffings that will not fucceed; and when otherwife, the most pompous will not avail, till these are rectified by proper internal medicines.

As foon then as a good digeftion is The figns procured (which is known by the thick- of good nefs and whitenefs of the matter difcharg- digettion. ed, and the florid red colour at the bottom of the fore) let the dreffings be changed for the precipitate medicine; or the fore may be filled up with dry lint alone, or dipped in lime-water with a little honey and tincture of myrrh, or brandy; about a fifth part of the latter to one of the former : a pledget of lint dipped in this mixture should also be applied to the bottom of the fore, which fhould be filled up with others to the furface or edges, but not crammed in too R 2 hard

fkilfully.

Of TUMOURS and

hard as before observed, nor yet applied too loofely.

Digeflive be continued too long.

By this method, the fore would incarn ointments or heal up properly, and foft fpongy flefh fhould not would be prevented or suppressed in time; whereas, when ointments or falves are too long continued, a fungus, or proud flefh, is thereby fo encouraged in its growth, that it requires fome time to deftroy and eat it down again : a proper compress of cloth, and a linen roller, is abfolutely neceffary both for this purpofe, and to fecure on the dreffings, wherever they can conveniently be applied.

An overreach defcribed.

To illustrate what has been faid, I fhall take this opportunity of fhewing how a wound from an over-reach fhould be treated, as I find it fometimes proves very difficult of cure. This wound is caufed by the point of the hind fhee's cutting into the horfes fore heel; and when it is only superficial, or flight, is in general eafily cured by washing it clean, and applying the wound-ointment : but it should be observed, from the nature where and manner of the injury, the blow has been fmart, that it differs widely from a common cut; the part here being both torn and bruifed; and confe-

IMPOSTHUMES.

confequently it requires to be properly digested in order to lay a good foundation for healing.

For this purpole, after walhing out How any dirt or gravel with foap fuds, &c. cured. let the wound be digefted, by dreffing it with doffils of lint dipped in an ounce of Venice turpentine, divided with the yolk of an egg, to which half an ounce of tincture of myrrh may be added ; over this dreffing I should advise the turnep-poultice, or that with ftrong-beer grounds and oatmeal, to be applied three or four times, or oftener, till the digeftion is procured, which is known by the figns abovementioned, and then both thefe dreffings may be changed for the precipitate medicines, or the lime-water mixture, obferving always to apply the doffils carefully to the bottom to fill up the fore with the fame even to the furface, and to bind all on with a compress and roller : and if any cavities appear, that cannot conveniently be dreffed to the bottom, they should always be laid open, or no proper foundation for healing can be obtained. The hoof also should be kept fupple, or pared away, when the growth of it interrupts this end, as fometimes is the cafe.

R₃

CHAP.

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C H A P. XXVI.

of WOUNDS in General.

The lips of all fresh Wounds fhould be brought into contact.

T N all fresh wounds made by cutting inftruments, there is nothing more required than bringing the lips of the wound into contact by future or bandage, provided the part will allow of it; for on wounds of the hips, or other prominent parts, and across fome of the large mufcles, the flitches are apt to burft on the horfe's lying down and rifing up in the stall; in fuch cafes the lips should not be brought close together : one flitch is fufficient for a wound two inches long; but in large wounds, they fhould be at an inch or more diftance; and if the wound is deep in the muscles, care should be taken to pais the needles proportionably deep, otherwife the wound will not unite properly from the bottom.

How bleeding fbould be flopped.

Should the wound bleed much from an artery divided, the first step should be in wounds to fecure it, by paffing a crooked needle underneath, and tying it up with a waxed thread : if the artery cannot be got at

at this way, apply a button of lint or tow to the mouth of the bleeding veffel, dipped in a ftrong folution of blue vitriol, ftyptic water, oil of vitriol, or hot oil of turpentine, powdered vitriol, or colcothar, &c. and remember always to apply it close to the mouth of the bleeding veffels, and take care that it is kept there by proper comprefs and bandage till an efchar is formed ; otherwife it will elude your expectations, and frequently alarm you with fresh bleedings.

In a memoir prefented to the Royal Theeffi. Academy of Sciences by M. La Poffe cacy of he gives an account of the fuccefs he had puff-balls. met with in stopping the bleedings of very confiderable arteries in horfes by the application of the powder of puffballs, the arteries cicatrizing by this means only, without any fucceeding hæmorrhage. This Lycoperdon, or puff-ball, was made use of for this purpose in human subjects, about 160 years ago, by Felix Wurtz, a famous old furgeon in Germany; but he does not feem to have a thought of trufting to it in fuch confiderable arteries, as M. La Fosse mentions, viz. those of the leg and thigh, the bleedings from which divided veffels he ftopt in a few minutes by the use of this powder R 4

der only. The agarick of the oak may alfo be used for this purpose, where it can be retained by a proper bandage.

How ftyp. ticks act.

These applications, as indeed all ftypticks, feem to act by conftringing the extremity of the veffel, or choaking it up, till a grume of blood is formed internally, which plugs up the orifice ; and has been found to adhere to it fo, as to conftitute one body with the veffel. M. La Foffe has proved this by flitting an artery up longitudinally, when he found that the little grume of clear blood was of a firm confiftence, of a lively red, in form of a cone or fugar-loaf, the bafis of which adhered to the little inclofing membrane, which shut up the artery without; the pocar of which floated in the cavity of the veffel.

Observations. I purpofely avoid fetting down any famous receipts for frefh wounds, whether ointments, or Fryar's balfams, being well affured, that in a healthy found conftitution, nature furnifhes the beft balfam, and performs herfelf the cure, which is fo often attributed to the medicine : when it is otherwife, and the blood is deprived of its balfamic ftate, as will appear from the afpect of the wound, and its manner of

of healing, it must be rectified by proper internal medicines, before a good foundation for healing can be laid by any external applications whatever.

The lips of the wound then being Fresh brought together by the needle or ban-wounds, dage, it needs only to be covered with how drefrags dipped in brandy, or a pledget of fed. tow spread with the wound-ointment, in p. 239. the directions in the preceding chapters being observed, and the wounded part kept as much as possible from motion.

Remember to drefs all wounds of the Obfervajoints, tendons, and membranous parts, with terebinthinate medicines; to which may be added honey and tincture of myrrh; and avoid all greafy applications whatever: fomentations and poultices are alfo generally here of great ufe; the former thin and attenuate the impacted fluids, greatly promote a free perfpiration in the limb, and facilitate the unloading the furcharge on the veffels, by quickening the motion of the fluids; while the latter, by relaxing the veffels, abate their tenfion, and relieve the obftruction, by promoting digeftion.

Punctured wounds, how treatcl.

Swellings from bleeding, bow treatcd.

Punctured wounds from thorns, or any other accidents, should be treated in the fame manner; applying the beer, or bread and milk poultice over the dreffing, till fome figns of digeftion appear, and This fomenting the part well every day. method is also very fuccessfully used to those fwellings, which often arife on the neck from bleeding, the fores being fprinkled with precipitate, and burnt alum powdered, to fetch out the core, or fungus, which choaks up the orifice. The ufual method is to introduce a piece of vitriol, or fublimate, which often brings on a plentiful discharge, fetches out the core, and makes a cure; but it is often with the loss of the yein, and it fometimes leaves a large fwelling and imposthumation.

Gun fhot wounds, how treated.

In gun-fhot wounds, when the ball has not penetrated too deep, it fhould be extracted, if it can be fetched away without diffurbance, together with any extraneous bodies that might pass in with it; the wound fhould be dreffed with the old digeflive of Venice or common turpentine, divided with the yolks of eggs, to which may be added fome honey and tincture of myrrh. The entrance of thefe

these wounds frequently requires to be enlarged, and a depending orifice fhould always be procured, if poffible; and if the wound fhould not digeft kindly, apply the beer-poultice, and foment with the difcutient fomentation, p. 237.

In fcalds, or burns from gunpowder, Scalds and or any other caufe, when the fkin re- burns, mains intire, bathe the part well, and how treatkeep it foaked with rags dipped in fpirit of wine camphorated : falt bound thick on the part has been found very effectual for this purpofe : and indeed all faline and fpirituous applications excel others, while the fkin is yet unbroke; but when the fkin is feparated, anoint the part, and keep it conftantly fupple with linfeed or fallad oil, and a plaifter fpread with bees wax and oil : if the fkin is fo fcorched, that floughs must be digested out. drefs with the wound ointment and oil of turpentine, and finish the cure with any drying ointment. Should the horfe be feverish from the pain, bleed him, give cooling glyfters, and treat him as we have directed in fimple fevers.

The fire, fupposed to be left in the Observapart after injuries of this kind, is nothing tion. more than the inflammation, which is the

the natural effect of fuch caufes; fo that the whimfical notions and conceits concerning fire remaining in the burnt part, is extremely abfurd.

CHAP. XXVII.

Of ULCERS in General.

E shall not here enter into a defcription of each particular species of ulcers, but only lay down fome directions for their general treatment; by which means we shall avoid the usual prolixity of authors on this subject, and yet shall endeavour to give so general an idea of the nature of ulcers, as we hope will be sufficiently instructive both of the application, and of the proper remedy to each.

The cure of fome ulcers in vain attempted without internals.

It may be neceffary to obferve, that we may often in vain purfue the beft methods of cure by external applications, unlefs we have recourfe to proper internal remedies; for as all ulcers, difficult to heal, proceed from a particular indifpofition

OF ULCERS.

fition of the blood and juices, before the former can be brought into any order, the latter must be corrected by alteratives, and fweetening medicines.

The first intention in the cure of ul- The genee cers, is bringing them to digeft, or dif- ral mecharge a thick matter; which will, in thod of curing ulgeneral, be effected by the green oint- cers. ment, or that with precipitate; but fhould the fore not digeft kindly by thefe means, but difcharge a gleety thin matter, and look pale, you must then have recourse. to warmer dreffings, fuch as balfam, or oil of turpentine, melted down with your common digeftive, and the ftrong-beer poultice over them: it is proper alfo in these kind of fores, where the circulation is languid, and the natural heat abated, to warm the part, and quicken the motion of the blood, by fomenting it well at the time of dreffing; which method will thicken the matter, and roufe the native heat of the part, and then the former dreffings may be re-applied.

If the lips of the ulcer grow hard or callous, they must be pared down with a knife, and afterwards rubbed with the caustick.

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OF ULCERS.

Ulcers with proud fleth.

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Where foft fungous flesh begins to rife, it should carefully be suppressed in time, otherwife the cure will go on but flowly; if it has already fprouted above the furface, pare it down with a knife, and rub the remainder with a bit of cauftick ; and, to prevent its rifing again, fprinkle the fore with equal parts of burnt alum, and red precipitate; or wash with the fublimate water, and drefs with dry lint even to the furface, and then roll over a compress of linen as tight as can be borne; for a proper degree of preffure, with mild applications, will always oblige thefe spongy excrescences to sublide, but without bandage the ftrongeft will not fo well fucceed.

Hollow ulcers. All finufies, or cavities, fhould be laid open as foon as difcovered, after bandages have been ineffectually tried; but where the cavity penetrates deep into the mufcles, and a counter opening is impracticable or hazardous; where, by a continuance, the integuments of the mufcles are conftantly dripping and melting down: in these cases, injections may be used, and will frequently be attended with success. A decoction of colcothar boiled in forge-water, or folution of lapis medimedicamentofus in lime-water, with a fifth part of honey and tincture of myrrh, may be first tried, injecting three or four ounces twice a day; or fome refin, melted down with oil of turpentine, may be used for this purpose: if these should not fucceed, the following, which is of a sharp and caustic nature, is recommended on Mr. Gibson's experience.

TAKE of Roman vitriol, half an Adrying ounce: diffolve in a pint of water, injection. then decant and pour off gently into a large quart bottle: add half a pint of camphorated spirit of wine, the same quantity of the best vinegar, and two ounces of Ægyptiacum.

This mixture is allo very fuccefsfully applied to ulcerated greafy heels, which it will both cleanfe and dry up.

These finuffes, or cavities, frequently Fifulous degenerate into *fifule*, that is, grow alcers, pipey, having the infide thickened, and lined, as it were, with a horny callous fubftance. In order to their cure, they must be laid open, and the hard fubstance all cut away; where this is impracticable, fcarify them well, and trust to the precipitate medicine made ftrong, rubbing now now and then with cauftick, butter of antimony, or equal parts of quickfilver and aqua fortis.

Ulcers with foul bones.

When a rotten or foul bone is an attendant on an ulcer, the flefh is generally loofe and flabby, the difcharge oily, thin, and flinking, and the bone difcovered to be carious, by its feeling rough to the probe paffed through the flefh for that purpose. In order to a cure, the bone must be laid bare, that the rotten part of it be removed ; for which purpofe, deftroy the loofe flefh, and drefs with dry lint; or the doffils may be preffed out of tincture of myrrh or euphorbium : the throwing off the scale is generally a work of nature, which is effected in more or lefs time, and in proportion to the depth the bone is affected; though burning the foul bone is thought by fome to haften its separation.

What internals proper to correct the blood. Where the cure does not properly fucceed, mercurial phyfick fhould be given, and repeated at proper intervals : and to correct and mend the blood and juices, the antimonial and alterative powders, with a decoction of guaiacum and limewaters, are proper for that purpofe. Vide Chapter on Alteratives.

This

This general method of treating ulcers or fores, if properly attended to, will be found applicable to particular cafes; fo that to avoid repetitions, we refer the reader to this chapter.

C H A P. XXVIII.

Of a BONE-SPAVIN.

ITHOUT entering at all into the A spavin caufe of this diforder, which is a defcribed. bony excrefcence, or hard fwelling, growing on the infide of the hock of a horfe's leg, we shall content ourfelves with defcribing the different kinds thereof, by their fymptoms; and then enter on their cure.

A spavin, that begins on the lower part of the hock, is not fo dangerous as that which puts out higher, between the two round proceffes of the leg-bone; and a fpavin near the edge is not fo bad as that which is more inward towards the middle, 23

as it does not fo much affect the bending of the hock.

The diffe- A fpavin, that comes by a kick or blow, rentkinds. is at first no true spavin, but a bruise on the bone, or membrane which covers it; therefore not of that confequence, as when it proceeds from a natural cause; and those that put out on colts, and young horses, are not so bad as those that happen to horses in their full strength and maturity; but in very old horses they are generally incurable.

Some proper cautions.

The ufual method of treating this diforder, is by blifters and firing, without any regard to the fituation, or caufe whence it proceeds. Thus, if a fulnefs on the fore part of the hock comes upon hard riding, or any other violence, which threatens a fpavin; in that cafe, fuch coolers and repellers are proper, as are recommended in fitrains and bruifes. Thofe happening to colts and young horfes are generally fuperficial, and require only the milder applications; for it is better to wear them down by degrees, than to remove them at once by fevere means.

Various are the prefcriptions for the blifter-

bliftering ointment; but the following, on proper experience, ftands well recommended by Mr. Gibfon.

TAKE nerve and marsh-mallow oint- The blifment, of each two ounces; quick- tering ointment. filver, one ounce, thoroughly broke, with an ounce of Venice turpentine ; Spanish flies powdered, a dram and a half; sublimate; one dram; oil of origanum, two drams.

The hair is to be cut as close as pof- How to be fible, and then the ointment applied pretty ufed. thick over the part; this should be done in the morning, and the horfe kept tied up all day without any litter till night; when he may be untied, in order to lie down; and a pitch or any flicking plaister may be laid over it, and bound on with a broad tape or bandage, to keep all clofe.

After the blifter has done running, When reand the fcabs begin to dry and peel off, it newed. may be applied a fecond time, in the fame manner as before; this fecond application generally taking greater effect than the first, and in colts and young horses makes a perfect cure.

When

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Obfervation. When the fpavin has been of long flanding, it will require to be renewed, perhaps, five or fix times; but after the fecond application, a greater diffance of time muft be allowed, otherwife it might leave a fcar, or caufe a baldnefs; to prevent which, once a fortnight or three weeks is often enough; and it may in this manner be continued fix or feven times without the leaft blemifh, and will generally be attended with fuccefs.

But the fpavins that put out on older, or full-aged horfes, are apt to be more obftinate, as being feated more inward; and when they run among the finuofities of the joint, they are for the most part incurable, as they then lie out of the reach of applications, and are arrived to a degree of impenetrable hardness.

Some cautions in regard to firing and cautlicks. The ufual method in these cases is to fire directly, or to use the strongest kind of caustic blisters; and sometimes to fire and lay the blister immediately over the part; but this way feldom succeeds farther, than putting a stop to the growth of the spavin, and is apt to leave both a blemish and stiffness behind; besides the great risk run (by applications of these fiery

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fiery and cauffic medicines to the nervous and tendinous parts about the joints) of exciting violent pain and anguish, and deftroying the limb.

The best and fafeft way therefore, is to The blifmake trial of the bliftering ointment tering above, and to continue it, according to recomthe directions there laid down, for fome mended. months, if found neceffary; the horfes in the intervals working moderately: the hardnefs will thus be diffolved by degrees, and wear away infenfibly.

Where the fpavin lies deep, and runs Directions fo far into the hollow of the joint, that for firing. no application can reach it, neither firing nor medicines can avail, for the reafons above-mentioned; though bold ignorant fellows have fometimes fucceeded in cafes of this fort (by men of judgement deemed incurable) by the application of cauftic ointments with fublimate, which act very forcibly, enter deep, and make a large discharge, and by that means destroy a great part of the fubftance, and diffolve away the remainder. Though, whoever is at all acquainted with the nature of thefe medicines, must know how dangerous in general their operation is on thefe occasions, and that a proper prepared cautery S 3

cautery made like a fleam, under the direction of a fkilful hand, may be applied with lefs danger of injuring either tendons or ligaments. After the fubftance of the fwelling has been properly penetrated by the inftrument, it muft be kept running by the precipitate medicine, or mild bliftering ointment. Where the fpavin lies not deep in the joint, and the bliftering method will not fucceed, the fwelling may be fafely fired with a thin iron forced pretty deep into the fubftance, and then fhould be dreffed, as is above directed.

CHAP. XXIX.

Of a CURB and RING-BONE.

A curb defcribed.

A S a fpavin rifes among the bones on the forepart of the hock, fo a curb takes its origin from the junctures of the fame bones, and rifes on the hind part, forming a pretty large tumour over the back part of the hind leg, attended with ftiffnefs, and fometimes with pain and lamenefs.

A curb

RING-BONE.

A curb proceeds from the fame caufes How cured. that produce fpavins, viz. hard riding, ftrains, blows, or kicks. The cure at first is generally eafy enough effected by bliftering, repeated twoor three times, or oftener. If it does not fubmit to this treatment, but grows exceffively hard, the quickeft and fureft way is to fire with a thin iron, making a line down the middle from top to bottom, and drawing feveral lines in a penniform manner pretty deep; and then to apply a mild bliftering plaister or ointment over it.—This method will entirely remove it.

There is another fwelling taken notice A jardon. of, on the outfide of the hock, which is defcribed. called a Jardon. This commonly proceeds from blows and kicks of other horfes; but frequently happens to managed horfes, by fetting them on their haunches: it is feldom attended with much lameneis, unleis it has been neglected, or fome little process of the bone be broke. It should first be treated with the coolers and repellers in page 273, and 274: but if any fwelling continues hard, and infenfible, the best way is to blifter or fire; but mild blifters alone generally fucceed. The 54

Of a CURB, &c.

A ringbone de-lower part of the paftern, which genefcribed. rally reaches half way round the fore-part

lower part of the pattern, which generally reaches half way round the fore-part thereof, and from its refemblance to a ring, has its denomination. It often arifes from fitrains, $\mathfrak{Sc.}$ and when behind, from putting young horfes too early upon their haunches; for in that attitude a horfe throws his whole weight as much, if not more, upon his pafterns, than on his hocks.

Their difference.

When it appears diffinctly round the paftern, and does not run downwards toward the coronet, fo as to affect the coffin-joint, it is eafily cured; but if it takes its origin from fome firain or defect in the joint originally, or if a callofity is found under the round ligament that covers that joint, the cure is generally dubious, and fometimes impracticable; as it is apt to turn to a quittor, and in the end to form an ulcer upon the hoof.

The ring-bones that appear on colts and young horfes, will often infenfibly wear off of themfelves without the help of vny application; but when the fubftance remains, there needs no other remedy

Of SPLENTS.

remedy befides bliftering, unlefs, when by long continuance, it is grown to an obftinate hardnefs, and then it may require both bliftering and firing.

To fire a ring-bone fuccefsfully, let The cure. the operation be performed with a thinner inftrument than the common one, and let the lines or razes be made not above a quarter of an inch diftant, crofsing them obliquely, fomewhat like a chain: apply a mild blifter over all, and when quite dried up, the rupture plaifter; and then turn the horfe to grafs for fome time.

CHAP. XXX.

OF SPLENTS.

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THESE are hard excreicences that Splents grow on the fhank-bone, and are deferibed. of various fhapes and fizes. Some horfes are more fubject to fplents than others; but young horfes are most liable to thefe infirmities, which often wear off, and difappear

OF SPLENTS.

difappear of themfelves. Few horfes put out fplents after they are feven or eight years old, unlefs they meet with blows or accidents.

A fplent that arifes in the middle of the fhank bone is no ways dangerous; but those that arife on the back part of this bone, when they grow large and prefs against the back finue, always cause lameness or stiffness, by rubbing against it: the others, except they are struated near the joints, feldom occasion lameness.

Beft let As to the cure of fplents, the beft way alone, if is not to meddle with them, unlefs they they ocare fo large as to disfigure a horfe, or cafon no are fo fituated as to endanger his going lamenefs.

The cure Splents in their infancy, and on their ingeneral. first appearance, should be well bathed with vinegar or old verjuice; which, by strengthening the fibres, often put a ftop to their growth: for the membrane covering the bone, and not the bone itself, is here thickened: and in some constitutions purging, and afterwards diuretic drinks, will be a great means to remove the humidity and moisture about the

OF SPLENTS.

the limbs, which is what often gives rife to fuch excreicences.

Various are the remedies prefcribed various for this difdorder; the ufual way is to remedies rub the fplent with a round flick, or the for this handle of a hammer, till it is almost raw, purpole. and then touch with oil of origanum. Others lay on a pitch plaifter, with a little fublimate, or arfenick, to deftroy the fubstance: some use oil of vitriol; some tincture of cantharides : all which methods have at times fucceeded; only they are apt to leave a fcar with the lofs of hair. Those applications that are of a more caustic nature, often do more hurt than good, especially when the fplent is grown very hard, as they produce a rottennefs, which keeps running feveral months before the ulcer can be healed, and then leaves an ugly fcar.

Mild blifters often repeated, as recom- Mild blifmended in the chapter of *Bone-Spavin*, ters are to fhould first be tried as the most eligible be preferred to method, and will generally fucceed, even firing. beyond expectation : but if they fail, and the fplent be near the knee or joints, you must fire and blifter in the fame manner as for the bone fpavin.

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Splents

Of the POLL-EVIL.

When firing is neceffary. Splents on the back part of the fhankbone are difficult to cure, by reafon of the back finews covering them; the beft way is to bore the fplent in feveral places with an iron not very hot; and then to fire in the common way, not making the lines too deep, but very close together.

CHAP, XXXI.

Of the POLL-EVIL.

The pollevil defcribed.

THE poll-evil is an abfcefs near the poll of a horfe, formed in the finuffes between the noll-bone, and the uppermost vertebræ of the neck.

How cured.

If it proceeds from blows, bruifes, or any external violence, at first bathe the fwelling often with hot vinegar; and if the hair be fretted off with an ouzing through the skin, make use of two parts of vinegar, and one of spirit of wine; but if there be an itching, with heat and inflam-

Of the POLL-EVIL.

inflammation, the fafeft way is to bleed, and apply poultices with bread, milk, and elder flowers: this method, with the affiftance of phyfick, will frequently difperfe the fwelling, and prevent this evil.

But when the tumour is critical, and has How all the figns of matter, the best method treated, then is to forward it, by applying the when cri-tical. ripening poultices already taken notice of, till it comes to maturity, and burfts of itfelf; or if opened with a knife, great care should be taken to avoid the tendinous ligament that runs along the neck under the mane : when mater is on both fides, the opening must be made on each fide, and the ligament remain undivided.

If the matter flows in great quantities, Various refembles melted glue, and is of an oily methods confiftence, it will require a fecond incifion, especially if any cavities are difcovered by the finger or probe; thefe should be opened by the knife, the orifices made depending, and the wound dreffed with the common digeftive of turpentine, honey, and tincture of myrrh, and after digeftion, with the precipitate ointment; or wash the fore with the following,

Of the POLLEVIL.

lowing, made hot, and fill up the cavity with tow foaked in it.

A drying wafh.

TAKE vinegar, or fpirit of wine, half a pint; white vitriol diffolved in fpring water, half an ounce; tincture of myrrh, four ounces.

This may be made fharper, by adding more vitriol; but if the flefh is very luxuriant, it should first be pared down with a knife before the application : with this wash alone Mr. Gibson has cured this diforder, without any other formality of dreffing, wathing with it twice a day, and laying over the part a quantity of tow foaked in vinegar, and the white of eggs beat together. This last application will ferve inflead of a bandage, as it will adhere clofe to the poll, and come off easy when there is occafion to drefs. Some walh with the phagedænic water, and then fill up the abfeels with loofe doffils of tow foaked in Ægyptiacum and oil of turpentine made hot, and continue this method till the cure is effected.

But the most compendious method of cure, is found by observation to be by fealding, as the farriers term it, and is thus profecuted when the fore is foul, of a bad

Of the POLL-EVIL. a bad disposition, and attended with a profusion of matter.

TAKE corrofive fublimate, verdi- The fcaldgreafe in fine powder, and Roman ing mixvitrol, of each two drams; green ture. copperas, half an ounce; honey or Ægyptiacum, two ounces; oil of turpentine and train oil, of each eight ounces; rectified spirit of wine, four ounces : mix together in a bottle.

Some make their fealding mixture milder, using red precipitate inflead of the fublimate; and white vitriol inftead of the blue. The following has been fuccefsfully ufed for this purpole, viz. half an ounce of verdigrease, half a pint of train oil, four ounces of oil of turpentine, and two of oil of vitriol.

The manner of fcalding is first to clean The methe abfcefs well with a piece of fponge thod of dipped in vinegar; then put a fufficient fcalding. quantity of the mixture into a ladle with a fpout, and when it is made fcalding hot, pour it into the abfcefs, and close the lips together with one or more fliches. This is to remain in feveral days, and if good matter appears, and not in an overgreat

Of a Fistula and

great quantity, it will do well without any other dreffing, than bathing with fpirit of wine; if the matter flows in great abundance, and of a thin confiftence, it muft be fealded again, and repeated till the matter leffens and thickens.

Obfervation. These liquid corrosive dreffings agree well with horses, whose fibres are stiff and rigid, and whose juices are oily and viscid; in this case they contract the vesfels of the tendons on the hind part of the head and upper part of the neck, which are continually spewing out a matter or ichor that can hardly be digested, or the profusion abated without such applications as these.

Ć H A P. XXXII.

Of a Fiftula and Bruifes on the Withers, Warbles on the Back, and Sit-Fafts.

Bruifes of the withers. how caufed. B RUISES on the withers frequently imposthumate, and for want of care turn fiftulous; they arife often from pinches

Bruifes on the Withers, &c.

pinches of the faddle, and should be The cure. treated with repellers; for this purpofe bathe the tumour well with hot vinegar three or four times a day; if that does not fucceed alone, an ounce of oil of vitriol may be put to a quart of vinegar, or half an ounce of white vitriol diffolved in a little water, and added to the fame quantity. Thefe are generally very effectual repellers for this purpofe in horfes, and will frequently prevent imposthumation: when the fwelling is attended with heat, fmarting, and little hot watery pimples, the following mixture will then be more proper to bathe with.

TAKE two ounces of crude fal Am- A repelmoniac, boiled in a quart of lime-ling wash. water; where that cannot be had, a handful of pearl or wood-afhes may be boiled in common water; pour off the decoction when fettled. and mix with it half a pint of fpirit of wine : anoint the part afterwards with linfeed oil, or elder ointment, to foften and fmooth the fkin.

But when these swellings are critical, When crithe confequence of a fever fettled on this tical, how part, you must avoid the repelling me. treated. thod, and affift in bringing the fwelling T 10

to matter, by means of fuppurating poultices : experienced farriers advife, never to open thefe tumours till they break of themfelves: for if they are opened before they are ripe, the whole fore will be fpongy, and difcharge a bloody ichor, which foon degenerates into a fordid ulcer. But take care to enlarge the openings, and pare away the lips, that your dreffings may be applied eafily; and avoid the ligament which runs along the neck to the withers: if a gathering forms on the opposite fide, open it in the fame manner, but take care they incline downwards, for the fake of depending orifices, and letting the matter flow off eafily. For the method of dreffing, we must refer to the preceding chapter : and if the bones should be found foul, they must be dreffed with tincture of myrrh till they scale off: if the fungus is very troublesome, and the discharge oily, yellow and viscid; pledgets soaked in the following, made hot, have been found very effectual, bathing the fwelling round with spirits of wine and vinegar.

A drying wash.

TAKE half an ounce of blue vitriol, diffolved in a pint of water : oil of turpentine, and rectified fpirit of wine, Bruifes on the Withers, &c. wine, of each four ounces; white wine vinegar, fix ounces; oil of virtriol and Ægyptiacum, of each two ounces.

Thefe fharp liquid applications are Obfervaoften found more efficacious dreffings tion. than ointments with precipitate, or verdigreafe, or indeed any other digeflives; as they infinuate themfelves more readily into the interffices of the fungæ, or little quag holes, fo commonly obferved in thefe kind of ulcers; and at the fame time level and deftroy the rifing, and exuberant pupillæ; whereby the ulcer grows more fmooth and dry, foon heals up, and cicatrifes.

When the cavities are truly fiftulous, the callofities must be cut out, where it can be done, with a knife; and the remainder destroyed by corrosives, viz. precipitate, burnt alum and white vitriol, as we have already observed in the chapter on Ulcers.

Warbles are fmall hard tumours under Warbles the faddle part of the horfes's back, oc-defended cafioned by the heat of the faddle in travelling, or its uneafy fituation. A hor greafy difh-clout at first frequently ap-T 2 plied,

plied, will fometimes remove them. Camphorated fpirits of wine are alfo very effectual for this purpole to difperfe them, to which a little fpirit of fal Ammoniac may be added. The repellers abovementioned are fuccefsfully applied in thefe cafes, and if you are obliged to work the horfe, take care your faddle is nicely chambered.

A fit-faft, what.

A *fit-faft* proceeds generally from a warble, and is the horfe's hide turned horny, which, if it cannot be diffolved and ioftened, by rubbing with the mercurial ointment, muft be cut out, and treated then as a frefh wound.

CHAP. XXXIII.

Of Wind-Galls, Blood, and Bog-Spavins.

Windgalls defcribed. A Wind-Gall is a flatulent fwelling, which yields to the preffure of the finger, and recovers its fhape on the removal thereof: the tumour is visible to the eye, and often feated on both fides

and Bog-Spavins,

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of the back finew, above the fetlocks on the fore legs; but most frequently on the hind legs; though they are met with in various parts of the body, wherever membranes can be fo feparated, that a quantity of air and ferofities may be included within their duplicatures.

When they appear near the joints and How tendons, they are generally caufed by caufed. ftrains or bruifes on the finews, or the fheath that covers them; which by being overftreched, have fome of their fibres ruptured; whence probably may ouze out that fluid which is commonly found with the included air : though where thefe fwellings fhew themfelves in the interflices of large mufcles, which appear blown up like bladders, air alone is the chief fluid; and thefe may fafely be opened, and treated as a common wound.

On the first appearance of wind-galls, How they their cure should be attempted by reftringents and bandage; for which purpose, let the swelling be bathed twice a day with vinegar, or verjuice alone, or let the part be fomented with a decoction of oak-bark, pomegranate, and alum boiled in verjuice; binding over it, with a roller, a woollen cloth foaked in the fame. T 3 Some

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Of Wind-Galls, Blood,

Some for this purpole use red wine lees, others curriers fhavings wetted with the fame, or vinegar, bracing the part up with a firm bandage.

Repeated bliftering recommended.

If this method, after a proper trial, fhould not be found to fucceed, authors have advifed the fwelling to be pierced with an awl, or opened with a knife; but mild bliftering has in general the preference given to these methods; the including fluids being thereby drawn off, the impacted air difperfed, and the tumour gradually diminished. A little of the bliftering ointment fhould be laid on every other day for a week, which brings on a plentiful difcharge, but generally in a few days is dried up, when the horfe may be put to his ufual work; and the biftering ointment renewed in that manner once a month, or oftener, as the horfe can be fpared from bufinefs, till the cure is compleated. This is the only method to prevent fcars, which firing of courfe leaves behind, and unlefs skilfully executed, too often likewife a fullnefs on the joint, with ftiffnefs : the mild bliftering ointment, where the fublimate is left out, is the properest for this purpofe.

A blood-

and Bog-Spavins.

A blood-fpavin is a fwelling and dilata- A bloodtion of the vein that runs along the in-fpavin defide of the hough, forming a little foft fwelling in the hollow part, and is often attended with a weakness and lameness of the hough.

The cure should be first attempted with The cure. the reftringents and bandage above recommended, which will contribute greatly to ftrengthen all weakneffes of the joints, and frequently will remove this diforder. if early applied; but if, by these means the vein is not reduced to its usual dimenfions, the fkin fhould be opened, and the vein tied with a crooked needle and wax-thread paffed underneath it, both above and below the fwelling, and the turgid part fuffered to digeft away with the ligatures : for this purpose, the wound may be daily dreffed with turpentine, honey, and fpirit of wine, incorporated together.

A bog-fpavin is an incyfted tumour on A bogthe infide the hough, or, according to fpavin de-Dr. Bracken, a collection of brownifh feribed. gelatinous matter, contained in a bag, or cyft, which he thinks to be the lubricating matter of the joint altered, the T 4 common The operation and cure.

common membrane that incloses it, forming the cyft: this cafe he has taken the pains to illustrate in a young colt of his own, where he fays, when the fpavin was preffed hard on the infide the hough, there was a small tumour on the outfide, which convinced him the fluid was withinfide the joint : he accordingly cut into it, difcharged a large quantity of this gelatinous matter, dreffed the fore with doffils dipped in oil of turpentine, putting into it, once in three or four days, a powder made of calcined vitriol, alum, and bole: by this method of dreffing, the bag floughed off, and came away, and the cure was fuccefsfully compleated without any visible scar.

Recommended in oblinate windgalls.

common

This diforder, according to the above defcription, will fcarcely fubmit to any other method except firing, when the cyft ought to be penetrated to make it effectual; but in all obftinate cafes that have refifted the above methods, both the cure of this, and the fwellings called wind-galls, fhould, I think, be attempted in this manner. If, through the pain attending the opperation or dreffings, the joint fhould fwell and inflame, foment it twice a day, and apply a poultice over the dreffings till it is reduced.

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C H A P. XXXIV.

Of Mallenders and Sallenders.

Allenders are cracks in the bend Mallendof the horfe's knee, that difcharge ders deforibed. the occasion of lamenes, fliffness, and the horfe's flumbling.

Sallenders are the fame diftemper, fi- Sallentuate on the bending of the hough, and ders what. occafion a lamenefs behind.

They are both cuted by wafking the How parts with a lather of foap warmed, or cured. old chamber-lye; and then applying over the cracks a ftrong mercurial ointment fpread on tow, with which they fhould be dreffed, night and morning, till all the fcabs fall off: if this fhould not fucceed, anoint them night and morning with a little of the following, and apply the above ointment over it.

TAKE hogs lard, two ounces; fub- An ointlimate mercury, two drams.

Or.

ment for that purpole.

Of Lampas, Barbs, and

Or,

TAKE hogs lard, two ounces; oil of vitriol, two drams.

Take the next from Gibson, which is to be depended on.

Another.

Æthiop's mineral, half an ounce; white vitriol, one dram; foft green foap, fix ounces.

Anoint with this often, but first clip away the hair, and clear the scabs. On their drying up, it may be proper to give a gentle purge or two; or the nitre balls may be taken advantageously, for a fortnight or three weeks.

CHAP. XXXV.

Of Lampas, Barbs, and Wolves Teeth.

The lampas deforibed. THE lampas is an excrecence in the roof of the horfe's mouth, which is fometimes fo luxuriant, that it grows above the teeth, and hinders his feeding. The

Wolves Teeth.

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The cure is in lightly cauterifing the flefh with a hot iron, taking care that it does not penetrate too deep, fo as to fcale off the thin bone that lies under the upper bars; the part may be anointed with burnt alum and honey, which is proper for most fores in the mouth.

This operation is by fome thought to Obfervabe entirely unneceffary; it being a gene-tion. ral obfervation with them, that all young hotfes have their mouths more or lefs full of what are called lampas; and that fometimes they rife higher than the fore-teeth : but they further obferve, in proportion as a horfe grows older, the roof flattens of itfelf, and the teeth then appear to rife. We are obliged to the ingenious M. La Foffe for this remark, and hope it will be the means of abolifhing this cruel and unneceffary operation.

Barbs are fmall excrefcences under the Barbs tongue, which may be difcovered by what, and drawing it afide, and are cured by cutting clofe off, and washing with brandy, or talt and water.

A horfe is faid to have *welves teetb*, Wolves when the teeth grow in fuch a manner, teeth, that their points prick or wound either what. the

the tongue, or gums, in eating. Old horfes are most liable to this infirmity, and whole upper overshoot the under teeth in a great degree.

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The cure. To remedy this evil, you may either chop off the fuperfluous parts of the teeth with a chifel and mallet, or file them down, which is the better way, till you have fufficiently wafted them.

CHAP. XXXVI.

Of the GREASE.

The greafe to be confi-

IN order to treat this diforder with fome propriety (without having recourfe to humours falling down for its exdered as a planation) I shall confider it as arising diforder of from two different caufes; a fault or reas well as laxation in the veffels, or a bad difpofithe blood, tion in the blood and juices; but unlefs the reader has fome idea of the blood's circulation, or will give himfelf a little trouble to obtain it, this doctrine will be of little use to him, and he must be content to be still imposed on with the usual cant

cant of bumours. We have already explained our meaning on this fubject in a preceding chapter, and fhall here only observe, that the blood and juices (or bumours, for there are always fome in the beft flate of blood) are brought to the extreme parts by the arteries, and returned by the veins; in which latter, the blood is to rife in perpendicular columns, to return the circulating fluids from the extremities : hence fwellings in the legs How of horfes may eafily be accounted for, in the from a partial ftagnation of the blood limbs are and juices in the finer veffels, where the occasioncirculation is most languid; and efpeci-ed. ally when there is want of due exercife. and a proper mulcular compression on the veffels, to push forward the returning blood, and propel the inert and half ftagnating fluids through their veffels; in fhort, the blood in fuch cafes cannot fo readily afcend as defcend, or a greater quantity is brought by the arteries than can be returned by the veins.

The greafe then, confidered in this The light, must be treated as a local complaint, where the parts affected are alone concerned, the blood and juices being times be yet untainted, and in good condition; treated as or as a diforder where they are both comlocal.

plicated: but when it is an attendant on fome other diftemper, as the farcy, yellows, dropfy, &c. fuch difeafes mult firft be cured before the greate can be removed. In the former cafe, moderate exercife, proper dreffing, cleanlinefs, and external application, will answer the purpose; in the latter, internals muft be called in to our affistance, with proper evacuations.

How fwelled heels fhould be treated.

Bandage recommended,

When a horfe's heels are first observed to fwell in the ftable, and fubfide, or go down, on exercife; let care be taken to wash them very clean, every time he comes in, with foap-fuds, chamber-lye, or vinegar and water, which with proper rubbing will frequently prevent, or remove this complaint: or let them be well bathed twice a day with old verjuice, or the following mixture, which will brace up the relaxed veffels; and if rags. dipped in the fame are rolled on, with a proper bandage, for a few days, it is most likely the fwellings will foon be removed by this method only, as the bandage will fupport the veffels, till they have recovered their tone. To answer this end also, a laced stocking made of ftrong canvas, or coarfe cloth, neatly fitted to the part, would be found extremely

tremely ferviceable, and might eafily be contrived by an ingenious mechanick.

TAKE. rectified spirit of wine, four A repelounces; diffolve in it half an ounce ling wath. of camphor, to which add winevinegar, or old verjuice, fix ounces; white vitriol diffolved in a gill of water, one ounce: mix together, and shake the phial when used.

But if cracks or fcratches are obferved, Cracks which oufe and run, let the hair be clip-ed. ped away, as well to prevent a lodgement (which becomes flinking and offenfive by its ftay) as to give room for washing out dirt or gravel, which, if fuffered to remain there, would greatly aggravate the diforder.

When this is the cafe, or the heels are Poulices full of hard fcabs, it is necefiary to begin often ne-the cure with poultices, made either of ceffary. boiled turnips and lard, with a handful of linfeed powdered; or oatmeal and rye-flower, with a little common turpentine, and hogs-lard, boiled up with maiyal A. ftrong beer grounds, or red wine lees. The digeflive ointment being applied to the fores for two or three days, with either of these poultices over it, will, by foftening

foftening them, promote a difcharge, unload the veffels, and take down the fwelling; when they may be dried up with the following.

A drying water. T A K E white vitriol and burnt alum, of each two ounces; Ægyptiacum, one ounce; lime-water, a quart or three pints: wafh the fores with a fponge dipped in this, three times a day, and apply the common white ointment fpread on tow; to an ounce of which may be added two drams of fugar of lead.

Or the following wash and ointment may be used for that purpose.

Another drying water. TAKE half an ounce of Roman vitriol, diffolve it in a pint of water; then decant off the clear into a quart bottle, add half a pint of camphorated fpirits of wine, the fame quantity of vinegar, and two ounces of Ægyptiacum.

A drying ontment. TAKE honey four ounces; white or red lead powdered, two ounces; verdigreafe, in fine powder, one ounce: mix together.

Some

Some for this purpole apply alum-Other curd; others a firong folution of alum forms. in verjuice, with honey; and many of thefe forms may eafily be contrived. But let it be remembered, that as foon as the fwelling is abated, and the moifture leffened, it would be very proper to keep the legs and pafterns rolled up with a firm bandage, or linen roller, two or three fingers wide, in order to brace up the relaxed veffels, till they have recovered their natural tone.

This method is generally very fuccefs. How ful, when the diffemper is only local, treated and requires no internal medicines; but from an if the horfe be full and grofs, his legs internal greatly gorged, fo that the hair flares caufe. up, and is what fome term *pen-feathered*, and has a large flinking difcharge from deep foul fores, you may expect to meet with great trouble, as thefe diforders are very obfinate to remove, being often occafioned by a poor dropfical flate of blood, or a general bad difpofition in the blood and juices.

The cure in this cafe, if the horfe is full and flefby, mult be begun by bleeding, rowels, and repeated purging; after U which, 290

Of the GREASE.

which, diuretic medicines are frequently given with fuccefs. Thus,

A diuretic drink. TAKE four ounces of yellow rofin, one of fal prunellæ; grind them together with an oiled peftle, add a dram of oil of amper, and give a quart of forge-water every morning fafting two hours before and after taking, and ride moderately.

Nitre recommended. As this drink is found very difagreeable to fome horfes, I would recommend the nitre balls in its flead, given to the quantity of two ounces a day, for a month or fix weeks, mixed up with honey, or in his feeds: take the following alfo for that purpofe.

Diuretic balls.

Yellow rofin, four ounces; falt of tartar, and fal prunellæ, of each two ounces; Venice foap half a pound; oil of juniper, half an ounce: make into balls of two ounce weight, and give one every morning.

TAKE nitre, two ounces; camphor, one dram: honey enough to make into a ball: give as the former.

The

Or,

The legs, in this cafe, fhould be bathed Fomenor fomented, in order to breathe out the tations fragnant juices, or to thin them, fo that freeffary. they may be able to circulate freely in the common current. For this purpofe, foment twice a day with the difcutient fomentation, p. 237, in which a handful or two of wood-afhes has been boiled; apply then the above poultices, or the following, till the fwelling has fubfided, when the fores may be dreffed with the green ointment till they are properly digefted, and then dried up with the water and ointment above recommended.

T A KE honey, one pound; turpen-A difeatine, fix ounces; incorporate with a tientpoulfpoon; and add of the meal of fenugreek and linfeed, each four ounces; boil in three quarts of red wine lees to the confiftence of a poultice; to which add, when taken from the fire, two ounces of camphor in powder: fpread it on thick cloths, and apply warm to the legs, fecuring it on with a ftrong roller.

If the fores are very foul, drefs them with two parts of the wound ointment, and one of Ægyptiacum; and apply the U 2 following,

following, fpread on thick cloths, and rolled on. The least it

A cleanfing poul. tice.

TAKE of black foap, one pound; honey, half a pound; burnt alum, four ounces; verdigreale powdered, two ounces; wheat-flour, a fufficient quantity.

When alteratives are neceffary.

If the diuretic balls fhould not fucceed, they must be changed for the antimonial and mercurial alteratives, already mentioned; but turning a horfe out in a field. where he has a hovel or fhed to run to at pleafure, would greatly contribute to quicken the cure, and indeed would in general effect it alone ; but if this cannot be complied with, let him be turned out in the day-time. and accorde all

A large fary.

If the horfe is not turned out, a large stall necef- and convenient stall is absolutely neceffary, with good dreffing and care: this stall should be fix feet wide, that a tall horfe may fhoot out his legs at length, fo that the blood may circulate freely, without meeting with refiftance, which it naturally must, when a horse lies all on a heap, or with his legs under him : nor should the stable be paved with too great a declivity; for if the horfe ftands oot one of Nevonaction and ac pla

Of the GREASE. too low with his hind legs, most of his weight will reft upon them, and give him the greafe, especially if he is at all inclined to be gourdy.

The laft thing we fhall recommend, is A horfe a method to oblige a horfe to lay down lying in the ftable. This undoubtedly is of down, of the utmost confequence, as it will not a great ferlittle contribute to the removal and cure of this diforder; for by only changing the politions of his legs, a freer circulation would be obtained, and the fwelling taken down: whereas, in general, it is greatly aggravated by the obftinacy of the horfe, who refules to lie down at all (probably from the pain it gives him to bend his legs for that purpole) by which means the Itiffness and fwelling increases, till the over-gorged and diftended veffels are obliged to give way, and by burfting, discharge the fluids, which should circulate through them.

The method proposed by Dr. Bracken, How to is to tie up one of his for elect clofe, and make him to fasten a cord, or small rope about the other fetlock, bringing the end of it over the horfe's fhoulders; then let him be hit or kicked with your foot behind that knee, at the fame time pulling his nofe U 2 Ling- And

lay down.

Of Scratches, Crown-Scabs,

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nofe down firongly to the manger, you will bring him upon his knees, where he fhould be held till he is tired, which cannot be long; but if he does not lie down foon, let him be thruft fideways againft his quarters to throw him over : by forcing him down feveral times in this way you may teach him to lie down at the fame words you firft ufed for that purpofe.——Other means are recommended for this purpofe, fuch as tying the horfe's tail with a cord, touching his fkin with oil of vitriol, &c.

Thus have I endeavoured to diffinguish this diforder, and to point out when and where internals are necessary, and in what cafes the cure may be effected by external applications only.

CHAP. XXXVII.

Of Scratches, Crown-Scabs, Rat-tails and Capellets.

S Cratches in the heels have fo much affinity with the greafe, and are fo often concomitants of that diftemper, that the method of treating them may be felected

Rat-Tails, and Capellets.

felected chiefly from the preceding chapter; which at first should be by the linfeed and turnep poultice, with a little common turpentine to foften them, and relax the veffels; the green ointment may then be applied for a few day to promote a difcharge, when they may be dried up with the ointments and washes recommended in the above chapter. It is Scratches beft afterwards to keep the heels fupple, how treatand foftened with curriers dubbing, which is made of oil and tallow. This will keep the hide from cracking, and be as good a prefervative as it is to leather; and by using it often before exercife, will prevent the fcratches, if care is taken to wash the heels with warm water when the horfe comes in. When they prove obstinate, and the fores are deep, use the following; but if any cavities or hollow places are formed, they fhould first be laid open, for no foundation can be laid for healing, till you can drefs to the bottom.

TAKE Venice turpentine, four ounces; Au ointquickfilver, one ounce; incorporate ment for well together by rubbing fome time, obflinate and then add honey and theep's-fuet, of each two ounces.

Anoint

Of Scratches, Crown-Scabs,

Anoint with this once or twice a day; and if the horfe is full or flefhy, you mult bleed and purge; and if the blood is in a bad flate, the alteratives mult be given to rectify it.

The crownfcab, how treated.

The crown-fcab is an humour that breaks out round the coronet, which is very fharp and itching, and attended with a fcurfinefs : fharp waters prepared with vitriol are generally used for the cure; but the fafeft way is first to mix marsh-mallow and yellow basilicon, or the wound ointment, equal parts, and to fpread them on tow, and lay all round the coronet. A dofe or two of physick may be very proper, with the diuretic drinks, p. 290, and the alteratives above recommended, in rebellious cafes. *Vide* Chapter on *Alteratives*.

Rat-tails Rat-tails are excrefcences, which creep what, and from the paftern to the middle of the howeured. fhanks, and are fo called from the refemblance they bear to the tail of a rat. Some are moift, others dry; the former may be treated with the drying ointment and wafnes, p. 288. the latter with the mercurial ointment, p. 99. If the hardnefs does not fubmit to the laft medicine, it

Rat-Tails, and Capellets.

it fhould be pared off with a knife, and dreffed with turpentine, tar and honey, to which verdigreafe or white vitriol may occafionally be added; but before the use of the knife, you may apply this ointment.

TAKE black foap, four ounces; An obtquick lime, two ounces; vinegar ment for enough to make an ointment.

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There are particular fwellings which Capellets horses are subject to, of a wenny nature, what, and which grow on the heel of the hock, and how to be treated. on the point of the elbow, and are called by the French and Italians Capellets : they arife often from bruifes and other accidents; and when this is the cafe, fhould be treated with vinegar and other repellers; but when they grow gradually on both heels, or elbows, we may then fufpect the blood and juices in fault; that fome of the veffels are broke, and juices extravalated; in this cafe, the fuppuration should be promoted, by rubbing the part with marfh-mallow ointment, and when matter is formed, the fkin fhould be opened with a lancet, in fome dependent part towards one fide, to avoid a fcar: the dreffings may be turpentine, honey, and tincture of myrth. The relaxed

Of Scratches, Crown Scabs, &c.

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laxed fkin may be bathed with equal parts of fpirit of wine and vinegar, to which an eighth part of oil of vitriol may be added. The contents of thefe tumours are various, fometimes watery, at others fuety, or like thick pafte; which, if care be not taken to digeft out properly with the cyft, will frequently collect again : was it not for the disfigurement, the fhorteft method would be to extirpate them with a knife, which, if artfully executed, and the fkin properly preferved, would leave very little deformity.

When thefe tumours proceed from an indifpolition of the blood, they are beft let alone, especially those of the watery kind, which will often wear off infensibly without any applications; but when they are like to prove tedious, endeavour to difperfe them by bathing with repellers, and have recours to rowels, purges, and diuretic medicines, to carry off the fuperfluous juices, and correct the blood.

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CHAP. XXXVIII.

Of the Difeases of the FEET.

Of Narrow Heels, and Binding of the Hoof, &c.

THOUGH narrow heels in gene-Narrow ral arife from a natural defect, yetheels often they are often rendered incurable by bad ruined by fhoeing; for fome farriers hollow theing. quarters fo deep and thin, that they may be pinched in with the fingers, and think by that method to widen them out by a ftrong broad-webbed fhoe; but this turns them narrow above, wires their heels, and dries, or rots the frog. The How they beft way in all fuch cafes is not to hollow thould be the foot in fhoeing, and to pare nothing managed. out, but what is rotten or foul, if the foot be hard and dry, or inclined to be rotten, bathe it often with chamber-lye, or boil two pounds of linfeed bruifed in two quarts of the fame, to the confiftence of a poultice, then add fix ounces of foft green foap, and anoint the foot with it every day, rubbing a little of it upon the fole.

Of Narrow Heels, and

Or.

An ointment for the hoofs.

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TAKE bees-wax, two ounces; frefh butter, or laid, fix ounces; tar, one ounce; as much linfeed, or neatsfoot oil, as will make it the confiftence of a fmooth ointment.

How dry hoofs should be rreated.

The hoofs, if too dry, may be anointed with the above, or with lard only; fome for this purpofe ufe tar, tallow, and honey, but most greafy and unctuous applications will answer this intention: the feet alfo, if too dry, may be fluffed with bran and lard heated, or worked up together in the hand; which is very proper allo to apply every night, when your horfe is travelling, in hot weather, on roads that are dry and hard; cowdung likewife is a proper fluffing for the feet, but vinegar should cautioully be mixed with it; for though it is a known cooler, it is a remarkable reftringent, which in this cafe would be extremely prejudicial; inflead of which, a pint of freth butter may be first applied to the fole, and the cow-dung laid over it. to strap own

There is another diforder the hoofs Howmoift are fubject to, which is their being too hoofs. thould be foft and moift; this may be constitutional, treated. OT

of a populate, then a

Binding of the Hoof, Sc.

or proceed from going much in wet and marfhy grounds, flanding conflantly in wet litter, or any infirmity that may bring too great a moifture into the feet. In this cafe, the horfe's hoofs may be bathed every day with warm vinegar, verjuice, copperas-water, and fuch like reffringents; to which may be added galls, alum, &c. remembering to let the horfe stand constantly dry. AKE belifteen, one pour

We fay a horfe is hoof-bound, when Hoofthe hoof is to tight round the inflep, bound, that it turns the foot fornewhat into the what. fhape of a bell. This is caufed fometimes by fhoeing as above, to widen the heel, and fometimes by cutting the toes down too much, which gives that fhape to the foot, and caules the horfe to go lame.

To remedy this diforder, Mr. Gibson Howserecommends the following method. Let medica. the foot be drawn down from the coronet almost to the toe with a drawing knife, making feven or eight lines or razes through the hoof, almost to the quick ; afterwards keep it charged with pitch or rofin, till the lines are wore out in fhoeing, which will require feveral months; therefore horfes are generally turned

Of Sand-Cracks and Quittors.

turned out to grafs. Before we clofe this chapter, take these ointments for the feet and hoofs, viz.

Ointments for the feet and hoofs.

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Sweet oil, rofin, and hogs-lard, each a pound; bees-wax, two ounces; honey, a pound: melt together.

Or,

TAKE bafilicon, one pound; wax and neats-foot oil, of each half a pound; rofin, four ounces: mix together.

CHAP. XXXIX.

Of Sand-Cracks and Quittors.

A fandcrack defcribed. W HAT is called a fand-crack, is a little cleft on the outfide the hoof; if it runs in a ftrait line downwards, and penetrates through the boney part of the hoof, it often proves troublefome to cure; but if it paffes through the ligament that unites the hoof with the coronet, it is then apt to breed a quittor, or falfe quarter, which is dangerous.

When

Of Sand-Cracks and Quittors.

When the crack only penetrates How through the hoof, without touching the treated. ligament, unlefs the hoof be hollow. it may eafily be cured, by rafping only the edges fmooth, and applying thick pledgets of bafilicon, and binding them down with a piece of foft lift; if fome precipitate be added to it, this medicine will be improved thereby, and in general answers the end, without any other application. But if you perceive any hollownefs under the hoof, and that the cleft has a tendency to penetrate through the griftle or ligament, the best method, in that cafe, is to fire out of hand with irons that are not made too hot, first rafping very thin and wide, from both fides of the cleft: the horfe must not carry any weight for some time, but be turned out to grafs, or wintered in a good farm-yard.

A quittor is an ulcer formed between A quittor the hair and hoof, ufually the infide defailed, quarter of a horfe's foot; it arifes often from treads and bruifes, fometimes from gravel, which, by working its way upwards, lodges about the coronet : if it is only fuperficial, it may be cured with cleanfing dreffings, bathing the coronet every

Of Sand Cracks and Quittors.

every day with fpirit of wine, and drefsing the fore with the precipitate medicine.

How cured in particular cafes.

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But if the matter forms itfelf a lodgment under the hoof, there is no way then to come at the ulcer, but by taking off part of the hoof; and if this be done artfully and well, the cure may be effected without danger.

When the matter happens to be lodged near the quarter, the farrier is fometimes obliged to take off the quarter of the hoof, and the cure is then, for the moft part, but palliative; for when the quarter grows up, it leaves a pretty large feam, which weakens the foot; this is what is called a falle quarter, and a horfe, with this defect, feldom gets quite found.

How cured when the coffinbone is affected. If the matter, by its confinement, has rotted the coffin-bone, which is of fo foft and fpongy a nature, that it foon becomes fo, you muft enlarge the opening, cut away the rotten flefh, and apply the actual cautery, or hot iron pointed pyramidically, and drefs the bone with doffils of lint, dipped in tincture of myrrh, and the wound with the green or precipitate ointment. When the fore is not enlarged

Of Wounds in the Feet, &c.

enlarged by the knife, which is the beft and lefs painful method, pieces of fublimate are generally applied, which bring out with them cores, or lumps ot flefh; blue vitriol powdered, and mixed with a few drops of the oil, is ufed alfo for this purpole, and is faid to act as effectually and with lefs pain and danger : during the operation of thefe medicines, the foot, I think, fhould be kept in fome foft poultice, and care fhould be taken, during the whole dreffing, to prevent proud flefh rifing, which otherwife will not only retard the cure, but prevent a firm and found healing.

CHAP. XL.

Of Wounds in the Feet, from Nails, Gravel, &c.

A Ccidents of this fort are very com- Wounds mon, and fometimes, for want of in the feet early care, prove of bad confequence; fhould for the parts being naturally tender, are larly be very fulceptible of inflammation; and attended when matter is once formed, if a free to X dif-

Of Wounds in the Feet,

difcharge is not procured, the bone, which is fpongy, foon becomes affected, and the whole foot is then in danger.

In what mannar they fhould be treated in general.

When any extraneous bodies, fuch as nails, stubs, thorns, &c. have passed into the horfe's foot, you should endeavour to get them out as foon as poffible; and after walking the part with oil of turpentine, drefs the hole with lint dipped in the fame, melted down with a little tar; the foot may be ftopped up with bran and hogs lard heated together, or put it into the turnep, or any foft poultice : this method is generally fuccefsful, when the nail, &c. is intirely removed ; but if any piece, or particle, should remain behind, which may be fulpected by the degree of pain, and discharge of matter; after paring away the fole as thin as poffible, introduce a bit of sponge tent, in order to enlarge the hole, that it may be drawn out by a small pair of forceps, or brought away by digeftion; if this method fhould not fucceed, but the lamenefs continues, with a difcharge of a thin, bloody, or finking matter, you must no longer delay opening the wound with a drawing knife to the bottom, and then drefs as above directed, or with the turpentine digeftive, divided with the yolk of an egg, base unatter is once formed. If a then

from Nails, Gravel, Sc. and a little tincture of myrrh; afterwards with the precipitate medicine.

If the lamenefs proceeds from pricking When in fhoeing, the foot fhould be pared thin from on the wound fide, and after dreffing with in floeing. the tar and turpentine, let it be flopped with the poultices above mentioned, or with two ounces of common turpentine, melted down with four of lard ; fhould this method not fucceed, follow the above directions.

If the nail penetrates to the joint of the What foot, where matter may be formed, and wounds by its long continuance putrefy, fo as to are dangeerode the cartilages of the joint, the cafe rous. is incurable.

If the nail has paffed up to the nutbone, it is incurable, becaufe this little bone cannot exfoliate, and because the cartilaginous part of it is deftroyed, as foon as injured.

If the nail has not paffed to the tendon, the horfe will do well, without a neceffity for drawing the fole; but if the tendon is wounded, the fole must be carefully drawn, becaufe a finovia and gleet is difcharged.

X 2

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When

Of Wounds in the Feet,

When from gravel. When gravel is the caufe, it for the most part follows the nail holes, and if it gets to the quick, cannot return, unlefs it is foraped out; for the make of the hoof which is fpiral like an ear of corn, favours its afcent, fo that the gravel continues working upwards towards the coronet, and forms what the farriers call a quittor bone.

The cure. The nature of this diforder points out the method of cure, which is to be as expeditious and careful as poffible, in getting out the gravel ; if it is found difficult to effect this, let the fole or hoof be pared thin, and if neceffary, the wound enlarged to the bottom, and then dreffed up as ufual. Should the coffin-bone be affected, you must follow the directions laid down in the preceeding chapter, remembring always to bathe the hoof with vinegar, or repellers, in order to allay the heat and inflammation, which often happen on fuch occasions; and should the pain and anguish affect the legs, treat them in the fame manner, or charge the leg and paftern with a mixture of wine lees and vinegar.

Figs

from Nails, Gravel, &c.

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Figs are fpongy fwellings on the bottom Figs. of horfes feet, generally on the fides of the warts, frufh. Thefe, or any other kind of ex-grapes, crefcences, fuch as warts, corns, grapes, $\mathfrak{S}c$. are best removed by the knife; and if any part of them be left behind, or should shoot up as fresh, touch them with the caustick, or oil of vitriol, and dress with Ægyptiacum; to which may be added, when they are very rebellious, a simall quantity of sublimate: when the roots are quite destroyed, you may incarn with the precipitate medicines, and dry up the fore with the following.

TAKE of white vitriol, allum, and A drying galls in powder, of each two ounces; wath. diffolve them by boiling a little in two quarts of lime-water, and keep in a bottle for ufe, which fhould be fhook when ufed.

These drying kind of medicines are Some profeldom used to advantage before the knife; per obserwhich should not be spared on these oc-vations. calions, even though the roots of some of these excressions are fixed, as they frequently are, on the tendon and sole; for they must be intirely extirpated before a radical cure can be performed. Should X 3 a large

Of Wounds in the Feet,

a large bleeding enfue, from a divilion of the artery in the bottom of the foot, apply clofe to it a button of tow, or lint covered with powder of alum, or with vitriol and bole; fill the whole foot up with dry dreffings, clofely applied, and fecure them on by a proper bandage. Obferve the preceeding directions in regard to inflammation, and drefs the wound according to the rules we have already laid down.

As in this and other chapters we have mentioned the danger of wounded tendons and membranous parts, we cannot clofe it without mentioning fome curious obfervations of the learned Mr. Haller, who, by a number of experiments made on the irritable and fenfible parts of a variety of animals, has endeavoured to overthrow this doctrine entirely, though fo long held facred. As the experiments, which fupport his opinion, have opened to us a new field of difcoveries, which may be of fervice in their confequences, we fhall, for the fake of the curious reader, mention a few of them.

Contrary then to the general opinion, he proves first, that tendons are incapable of all sensation and pain; this position he

from Nails, Gravel, &c.

he has confirmed a hundred times, by a variety of experiments, as cutting, pricking, and wounding them in various shapes; the animal all this while continuing quiet and eafy, fhewing not the leaft fign of pain, and when let loofe, walked about perfectly eafy : the ligaments and cap-Julæ of the joints he alfo affirms to be equally fenfible of pain, by a variety in of experiments, made by filling the articulations with oil of vitriol, &c. the animals shewing no fense of pain from fuch acrid applications; and thefe wounds, hitherto thought fo dangerous, were eafily healed with nothing but the animal's faliva, often even without it. Other experiments he has made on these parts with needles, or tharp inftruments, with the fame fuccefs : in fhort, he endeavours to prove the periosteum infensible, the dura, pia mater, all membranes; and whatever parts like thefe, are deftitute of nervous fillaments, he fays, are void of pain; and in proportion to the quantity of them, the part is more or lefs fenfible, or fub-Ject to pain. As this doctrine, and the experiments which support it, are now under the confideration of the learned, we may foon expect the refult of their enquiries: we shall only take the liberty to remark, that this new doctrine has X4 vet

Of the Running-Thrush, Canker,

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yet made no alteration in practice, nor probably will; fince phyficians and furgeons have chiefly to do with tendons, membranes, &c. in an inflamed, or morbid state, not in the found state these experiments were made; for though in the latter, they may appear to have little or no fenfations, yet when inflamed, as in the former, experience must convince us, they are often attended with intenfe pains and fatal confequences; as in the pleurify and phrenitis, in punctured and overstrained tendons and ligaments, efpecially when these accidents happen in morbid habits, and an inflammatory flate of blood.

CHAP. XLI.

pulding of elementations are singly of these

Of the Running-Thrush, Canker, and Loss of Hoof.

The runningthrufh the frog; or a fcabby and ulcerous difdeferibed. polition, which fometimes caufes it to fall off: when the difcharge is natural, the feet

and Lofs of Hoof.

feet fhould be kept clean, but no drying wafhes made use of, it being thought as unfafe to repel fome of these discharges, as to cure fome fweaty feet.

When an impoftume, or gathering The meappears, the fafeft way is to pare out the thod of hard part of the frog, or whatever ap-cure. pears rotten; and walk the bottom of the foot two or three times a day with old chamberlye; this is the fafeft and beft way of treating them. But when a horfe has been neglected, and there is a firong flux to the part, it is apt to degenerate into a canker; to prevent which use the following.

T A K E fpirit of wine and vinegar, A waft of each two ounces; tincture of for the myrrh, and aloes, one ounce; *E*-thrufh. gyptiacum, half an ounce: mix together.

Bathe the thrufh with this, wherever there appears a more than ordinary moifture, and lay over the ulcer a little tow dipped in the fame. The purges and diuretics recommended in the greafe, fhould be given at this time, to prevent the inconveniences that the drying up thele difcharges frequently occafion.

A canker

Of the Running-Thrush, Canker, 314

A canker with the cure.

A canker in the foot proceeds, for the defcribed, most part, from thrushes, when they prove rotten and putrid, though many other caufes may produce this diforder. The method uled by farriers for the cure, is generally with hot oils, fuch as vitriol, aqua fortis, and butter of antimony, which are very proper to keep down the rifing flesh, and should be used daily, till the fungus is fuppreffed, when once in two days will be fufficient, ftrewing fine precipitate powder ower the new-grown flefh till the fole begins to grow.

Obfervation.

There is one great error committed often in this sure, that is, in not having fufficient regard to the hoof; for it should not only be cut off, wherever it preffes on the tender parts, but should be kept foft with linfeed oil; and as often as it is drefsed, bathe the hoof all round the coronet with chamberlye. Purging is very proper to compleat the cure.

The lofs of the hoof, how repaired.

The lofs of the hoof may be occafioned by whatever accident may bring an impoftumation in the feet, whereby the whole hoof becomes loofened, and falls off from the bone. If the coffin-bone remains

and Loss of Hoof. remains uninjured, a new hoof may be procured by the following method.

The old hoof should by no means be Remark. pulled off, unless fome accident happens, that requires its removal, for it ferves as a defence to the new one, and makes it grow more fmooth and even; and indeed, nature will in general do this office at her own proper time.-On the removal of the hoof, a boot of leather, with a ftrong fole should be laced about the pastern, bolftering and ftopping the foot with foft flax, that the tread may be eafy : drefs the fore with the wound ointment, to which fhould be added the fine powders of myrrh mastich, and olibanum. If this medicine should not be fufficient to prevent a fungus, burnt alum, or precipitate, may be added to it, and the luxuriant flefh may be daily washed with the fublimate water.

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CHAP. XLII.

ad your look was a level that they be

Of Venemous bites from Vipers and Mad Dogs.

The action of poifens, not to be accounted for. T HE action of poifons on animal bodies has hitherto appeared of fo intricate a nature, and the nervous fyftem, which is fo principally affected by them, fo imperfectly underflood, that it is no wonder the most ingenious authors have given fo little fatisfaction in treating this fubject; we fhall therefore only offer fuch remedies and methods of cure, as ftand recommended to us on the beft authority.

The external met hod of ure.

The firft intention is, to prevent the poifon mixing with the blood; this poffibly might be affected, if the part would admit of being inftantly cut out with a knife; the cupping-glaffes might be applied to empty the veffels, and the wound afterwards cauterized with a hot iron. The furrounding parts fhould afterwards be well bathed with falad oil, and the fore dreffed once or twice a day with hot Ægyptiacum. It is neceffary alfo, that it

X

Of Venomous Bites, &c. it should be kept open for forty days at leaft with a piece of fponge, or orrice root fmeared over with the precipitate ointment, or that prepared with Spanish flies : these feem to be the chief external remedies to be depended on.

Internally, for bites from vipers, may The inbe given cordial medicines, fuch as Ve- ternal renice treacle and falt of hartfhorn, an ounce medies for bites from of the former, with a dram of the latter, vipers. every night for a week; or where it can be afforded, a proportionate quantity of the famous Tonguin remedy of musk and cinnabar, fo much recommended in bites from infected animals.

To prevent the tragical effects of the Dr. Mead's bite from a mad dog, give the above method medicines; or the method recommended for bites by Dr. Mead may be purfued in the fol- from mad lowing manner: take away three quarts dogs. of blood, and give the horfe night and morning half an ounce of afh-coloured ground liverwort, and a quarter of an ounce of pepper; this remedy may be continued a week, or ten days, when the horfe should be plunged into a river, or pond, every morning, for a month or fix weeks.

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The

Of Venomous Bites, from

Dr. James's mercurial method recommended for the

The following mercurial method having been found fuccefsful, both in dogs and men, we here recommend it as a remedy for horfes, and indeed think it more to be depended on than moft others. Dr. James has given a full account of it in the Philofophical Tranfactions, from which, for the fake of the curious reader, we give the following abftract.

" About Michaelmas 1731, Mr. Floyer, " of Hants, complained, that he was " afraid of a madnefs among his fox-" hounds; for that morning one had " run mad in his kennel: the Doctor " took this opportunity of telling, that " he had long believed, that mercury " would, if tried, prove the beft remedy 66 against this infection. Mr. Floyer neg-" lected this advice till the February fol-" lowing: mean time he tried the me-" dicine in Bates, commonly known by " the name of the pewter-medicine, as " alfo every thing elfe that was recom-" mended to him by other fportsmen, " but to no purpofe; for fome of his " hounds run mad almost every day " after hunting; upon this he took his " hounds to the fea, and had every one " of them dipt in the falt water; and 66 at

Vipers and Mad Dogs.

" at his return, he brought his pack to " another gentleman's, fix miles diftance " from his own. But, notwithstanding " this precaution, he loft fix or feven " couple of dogs in a fortnight's time. " At length in February, Mr. Floyer tried ". the experiment, the Doctor had recom-" mended, upon two hounds that were " mad, and both very far gone; they " refused food of all forts, particularly " fluids, flavered much, and had all the 66 fymptoms of a hydrophobia to a great " degree; that night he gave twelve " grains of turpeth mineral to each of " the two dogs, which vomited and " purged them gently : twenty four hours " after this, he gave each twenty-four " grains; and after the fame interval, " he gave forty-eight more to each : the " dogs falivated very much, and foon " after lapped warm milk ; at the end of " twenty-four hours more, he repeated to one dog twenty-four grains more, " and omitted it to the other; the dog " that took this last dose, lay upon the " ground, falivated extremely, was in " great agonies, and had all the fymp-" toms of a falivation raifed too quick; " but got through it ; the other relapfed " and died.

Of Venomous Bites, &c.

"To all the reft of the pack he gave feven grains of turpeth for the firft dofe, twelve for the fecond dofe, at twenty-four hours diffance, which was repeated every other day for fome little time. The method was repeated at the two or three fucceeding fulls and changes of the moon : from this time he loft not another hound ; and though feveral afterwards were bit by ftrange dogs, the turpeth always prevented any ill confequences.

"The Doctor and his friends tried the fame thing upon a great many dogs, and it never failed in any one inftance; though dogs bit at the fame time, and by the fame dogs, have run mad, fafter most other medicines had been tried."

In what manner given to a horfe.

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The fame method may be obferved in giving this medicine to a horfe, the quantity only being angmented to two foruples, or half a dram each dofe; the directions laid down in the chapter on FARCY being attended to. There are various other remedies directed for thefe purpofes, but the prefent, I think, are chiefly to be relied on.

We

Of Gelding, Docking, &c.

We shall close this chapter, however, with the following, which has long been in great efteem, and is by fome thought to be an infallible cure for the bite of a mad dog.

TAKE fix ounces of rue; Venice A drink treacle, garlick, and tin fcraped, of for venoeach four ounces; boil in two quarts bites. of ale over a gentle fire to the confumption of half; ftrain off from the ingredients, and give the horfe four or five ounces every morning fafting.

The ingredients may be beat in a mortar, and applied daily to the wound as a poultice.

CHAP. XLIII.

Of Gelding, Docking, and Nicking of HORSES.

TO treat of the operations in farriery, is fomewhat foreign to our original defign; but as we have a new apparatus and method to offer, con-Y cerning

Of Gelding, Docking, and

cerning the Nicking of horfes, we are induced alfo to make fome few obfervations on Gelding, and Docking, especially as the fymptoms of the latter, and manner of treating them, are on fimilar principles.

Without entering into particulars, we Some ufeful obser- shall only observe, that the Gelding of a vations on foal is an operation of little confequence, gelding. and feldom attended with any bad fymptoms; yet the extirpating the flones of a full grown horfe, requires the care and ingenuity of a good artift. The ufual method of fecuring the fpermatic veffels, is by cauterifing their extremities, and filling up the fcrotum or bag with falt: this method, though fuccefsfully practifed on young colts, fhould by no means be trusted to in grown horses; but after the fcrotum is opened, and the ftone turned out, a ftrong waxed thread fhould be tied round the cord, and then the tefficle cut off; this undoubtedly is the most effectual way to fecure the veffels, as the efchar from burning may, by accidents, be removed, and a profuse bleedcautery. ing enfue before it is difcovered,

> The wound may be dreffed with the usual digestive; but should a fever, or inflam-

> > 4

The ligature preferred to the

Nicking of HORSES.

inflammtion enfue, bleed largely, and The follow the directions laid down in the manner of chapter on FEVERS: fhould the belly and geneand fheath fwell, foment twice a day, ral treatand bathe often with oil of roles and ment. vinegar, till the tumour fubfides, and wound digefts.

In regard to the Docking of horfes, Some gethough it is an operation to common, neral diand in general fo fuccefsfully executed; in relation yet as it does now and then mifcarry, to dockby an inflammation and gangrene fuc-ing. ceeding, which fometimes are communicated to the bowels; we have thought proper to lay down fome general rules and directions, both in relation to the operation, and the fubfequent manner of treating the fymptoms; and as thefe most probably arise from the tendons of the tail, fuffering by an injudicious application of the knife or fearing-iron, or an improper feason for the operation, we shall first observe, that the very hot or cold months are by no means proper for that purpole, for reasons we apprehend obvious to every one : the next obfervation we shall make is, that it should always be performed by incifion, or the chopping engine; the knife being paffed through the tail from above, while it Y 2 lays

Of Gelding, Docking, and

lays on the block; for when the cutting inftrument is applied underneath, the blow is then given on the tail, which of courfe, by bruifing the tendons, may well be fuspected to occasion bad fymptoms. The laft obfervation we fhall make, is in regard to the fearing-iron, which fhould be fmooth, and better polifhed than those generally used, and ought to be rubbed clean on a woollen cloth, before the application to the flump, otherwife the fparks, which fly from the iron, are apt to occasion great pain, with fwelling both of the fheath and fundament; nor fhould it ever be applied flaming hot, for then it brings the burnt part away with it; and as it requires a re-application, in order to form a new efchar on the veffels, the bone by these means is frequently left too much exposed, fo that it is often a confiderable time before it is covered.

The manner of dreffing the flump, and general treatment.

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Farriers feldom apply any thing to the flump; which need only be anointed with the wound ointment, and when the efchar is digefted off, may be wafhed with allum or lime-waters: but if an inflammation enfues, with a difcharge of thin matter, the turpentine digeftive, with tincture of myrrh, p. 245. fhould be applied,

Nicking of HORSES.

plied, with the bread and milk poultice over it; bathe the rump often with oil of roles and vinegar, bleed largely, and observe the cooling method laid down in the chapter on Fevers; and if the fundament is fwelled, and the inflammation at all fufpected to be communicated to the bowels, let cooling emollient glyfters particularly be injected two or three times a day. Should a gangrene enfue, add Ægyptiacum to your dreffings, and fpirits to the fomentation; and apply over all the ftrong-beer poultice, with London treacle, twice a day .---- These feem to be the only means to be depended on, and will without doubt, in general, be fucceisful, when applied in due time.

Before we defcribe the operation of Nicking Nicking, it may be neceffary to enquire how achow the effect of it (the elevation of the counted for. tail) is brought about; and in order to know this, and judge with propriety of the operation, we must confider the tail as elevated or lifted up by one fet of muscles, and depressed or pulled down by another.

It is fomewhat remarkable that Snape, Obferva-Saunier, and Gibfon, who, in general, are tion. Y 3 pretty

pretty exact in their anatomical defcriptions, fhould omit, in their account of the mufcles of a horfe, to defcribe thofe of the tail: for which reafon, as a proper opportunity has not offered to fupply this omifiion by making a compleat diffection with that accuracy we could have wifhed, it is hoped the fubfequent imperfect defcription will be excufed, as it was taken only from a tail that was diffected after docking.

An anatomical defcription of the tail.

Here we observed, that the muscles, which elevate the tail, are more numerous, large and ftrong, than those that deprefs it ; that they are closely connected to the bones of the tail by flefhy fibres, and terminate in ftrong tendons at the extremity: but the muscles of the latter foon form into tendinous expansions, and three large tendons, which are inferted into the latter bones of the tail: there are feveral other fmall tendons, which run laterally, whofe ufe, most probably, is to move the tail fideways. The arteries are four in number, and run fometimes above the bones of the tail, confequently cafily avoided by a dextrous hand, as they cannot readily be wounded by the knife, in dividing the rendons neceffary to be cut in this operation.

The

The art of nicking horfes then chiefly The opeconfifts in a transverse division of these ration dedepression afterwards, as will keep their extremities from coming again into contact; fo that an intervening callus fills up the vacuity: by these means an additional power is given to the antagonist muscles, viz. the elevators; the counteraction of the depression manifestly abated by the division of the tendons, and the intervention of the callus.

The ufual method of fupporting the The intail by a pulley and weight, is liable to convenimany exceptions, the extremities of the encies of divided tendons not being by that methe old kept fufficiently afunder; the fituation of the tail being rather inclined to a perpendicular, than a curved direction; this pofition too is liable to many variations, from the different movements of the horfe, and is the reafon that the tail frequently inclines to one fide; as the nick may heal up fafter on one fide than the other; the difagreeable fituation the horfe muft ftand in, with a weight conftantly hanging to his tail, is another material objection, befides the neceffity Y 4 of Of Gelding, Docking, and of removing it when the horfe is exercised or taken out to water.

A new method recommended,

To remedy these inconveniences, and perfect this operation, a very ingenious gentleman, who had thoroughly confidered it, has been fo kind as to favour me with a draught, and defcription of a machine he contrived for that purpofe; which has been practifed frequently with the expected fuccefs, and indeed at firft view appears in every refpect calculated to correct all the defects in the old one : as I doubted not its reception being perfectly agreeable to the public, I have ordered a plate to be engraved, which, with the annexed defcription, will, I hope make it very familiar and intelligible to every capacity.

Obfervations in regard to the operation.

In regard to the operation, it is worth notice, that the extremities of the tendons, which jut out in the operation, need not here be cut off, as is cultomarily done; the number of the incifions muft be in proportion to the length of the tail, but three in general are fufficient. The most approved method of dreffing at first is with powdered rofin, and spirit of wine, applying a soft doffil of lint or tow, dipped in the same, between

Nicking of HORSES.

tween each nick, and lapping the tail up with a linen cloth and broad fillet; which the next morning fhould be cut open down the back part of the tail, and the morning after be gently taken off; when it will be proper to plat the hairs, in order to keep them clean, and to fet the tail, as will be directed in the plate and references,

Every two or three days the tail fhould Some gebe let down, and the upper part next the neral dirump bathed with hot vinegar; and if it rections. begins to crack, and the hair comes off, a little tincture of myrrh will foon put a ftop to it. To obviate any threatening fymptoms that may arife in regard to the wounds, have recourfe to the above directions on docking,

After fix or eight days, it will be proper to let the horfe ftand without the machine for a few hours, and then be rode about, in order to obferve how he carries his tail; by which means you will the better judge how to faften it down, whether to confine it clofer, or give it more fcope: after the wounds are healed up, it may be neceffary to keep the tail fuspended, till the callus is confirmed, at leaft for fome hours in the day; though

Of Gelding, Docking, and though a greater liberty may now be allowed it.

The advantages of the machine.

Thus this machine anfwers every intention, is far preferable to the pulley, as it keeps the tendons properly feparated, and the tail in a certain polition; fo that the wounds heal up uniformly, without any rifk of its being caft to one fide; the horfe alfo is more at eafe, having no weight conftantly pulling and teazing him, and may be taken out to water or exercife, without any inconveniency, or difturbance.

Directions for the Application of the Nicking Machine; and Explanation of the Plates.

W HEN the hair of the tail is properly platted, and tied with a knot or two at the end, the pad, &c, as defcribed in Fig. I. must be put on, and the machine as in Fig. II. buckled to them, letting the part G in the machine lie over the part of the tail that joins to the horfe's rump; then let an affistant, ftanding on the fide rail of a brake, or any other conveniency that may place him

Nicking of HORSES.

him above the horfe, raife the horfe's tail very gently, till the knot of the tail gets fo far beyond the ftrings L L in Fig II. that it may be tied down, which being done, the tail may be let down lower, or taken up higher at pleafure. It is to be obferved, that the ligature is not made on the tail itfelf, but on the platted hair, at the extremity of the ftump.

The machine, Fig. II. muft be made of a peace of tough wood, about a foot long, viz. from A to B, and about 19 inches broad from C to D, and 7 or 8 inches thick. The under part must be hollowed, fo as to let in the horfe's rump, and that the wings C D may reft on his buttocks. To receive the tail, a groove must be cut from G to H, about 3 inches wide, and 3 deep at G, leffening gradually both in height and breadth to H. Holes must be made at certain distances in the groove, as at H, for the ftring, and a nick cut to receive the billet from the ftrap K. Two buckles fixed to the machine, as at I I.

The pad, & are fufficiently defcribed in Fig. 1. and its references; the wood must be sloped off from E to C and A, and

Of Gelding, Docking, Gc.

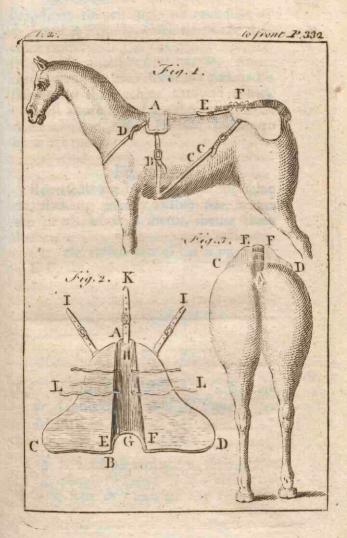
and fo on to the other fide, to lighten the machine, and hollowed at B G and F.

Fig. I.

Reprefents a horfe with his tail in the frame, or machine. A, is a pad, to which is faftened a circingle B. C C, two fide ftraps, one on each fide of the horfe, faftened to the circingle, to keep the machine from going to either fide. D, a breaft plate, to prevent the pad, $\mathcal{Cc.}$ flipping back. E, a ftrap fixed to the pad, and buckling to the machine, to keep the tail on the ftretch at pleafure. F, the ftring tied on the hair, to confine the tail down to the machine.

and no flor then Fig. II.

From A to B is 12 inches. From C to D, meafured with a ftring drawn over EF, is 19 inches. From the top of the groove at E to the bottom G, is 3 inches. From E to F, the wideft part of the groove, is 3 inches, gradually narrowing, as a tail leffens to its extremity. The dots about H are holes in the groove, through which a piece of tape or packthread muft be put, according to the length of the dock, and the diftance of the knot, to tie the tail down behind the knot. I I, the buckles, to receive a ftrap



Of Ruptures, Anticor, &c.

ftrap from the circingle on each fide, as defcribed in Fig. I. which keeps the machine from turning to either fide. K, the ftrap with a billet and buckle, which comes along the back from the pad, and is faftened to the machine through a nick cut just above H. LL, the ftring, to tie down the tail. B G F, the hollow to let in the rump.

Fig. III.

Reprefents the horfe with the machine on, ftanding directly before you, where the depth of it is fhewn, being three inches.

CD, the extremities of the wings. E F, the upper part.

CHAP. XLIV.

Of Ruptures, Anticor, Colt-Evil, or Gonorrhœa, and Difeases of the Mouth.

H A VING omitted in their proper places to fpeak of the above diforders, fome of which are not very common,

Of Ruptures, Anticor,

mon or peculiar to horfes in this climate, we have thought proper to throw them together in this laft chapter, that the reader might not be difappointed in his enquiries after their cure.

Ruptures In regard then to ruptures, though deferibed, they are generally divided into particular claffes, we fhall only obferve, that by violent efforts of the horfe, or other accidents, the guts or caul may be forced between the mufcles of the belly at the navel, and through the rings of the mufcles into the fcrotum or cod. The fwellings are generally about the fize of a man's fift, fometimes much larger, defeending to the very hock; they are frequently foft, and yield to the preffure of the hand, when they will return into the cavity of the belly with a rumbling noife; and in moft the vacuity may be felt through which they paffed.

The method of treating ruptures.

On their first appearance, endeavours fhould be made to return them by the hand; but if the fwelling should be hard and painful, in order to relieve the stricture, and relax the parts, through which the gut or caul has passed, let a large quantity of blood be immediately taken away, and the part fomented twice or thrice

Colt-Evil, Sc.

thrice a day, applying over it a poultice made with oatmeal, oil, and vinegar, which fhould be continued till the fwelling grows foft and eafier, or the gut is returned. In the mean time it would be proper to throw up emollient oily glyfters twice a day, and to let the horfe's chief diet be boiled barley, fcalded malt, or bran.

Should the fwelling afterwards return, Refirinwe apprehend the reftringent applications gents of ufually recommended on these occasions, will avail little without a fuspenfory bandage; fo that an ingenious mechanic in that art is chiefly to be relied on for any future affistance; though it has been observed, that with moderate feeding, and gentle exercise, fome horses have continued to be very useful under this complaint.

The anticor is a diforder not very com- The antimon among our Englifh horfes, or those cor deferibed. in northern climates : but it is particularly taken notice of by the French, Spanish, and Italian writers; who deferibe it a malignant fwelling in the breast, which extends fometimes to the very sheath under the belly; it is attended with a fever, great depressions and weakness, and a total

Of Ruptures, Anticor.

total lofs of appetite; but this laft fymptom may probably be owing to an inflammation, which is fuppofed to affect the whole gullet and throat, fo great as to make the horfe fwallow with the utmost difficulty, and to endanger fuffocation.

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The cure. The cure fhould first be attempted by large and repeated bleedings, to abate the inflammation; emollient glyfters fhould be injected twice or thrice a day, with an ounce of fal prunellæ in each, and the cooling drink in the chapter on Fevers should be given inwardly; the fwelling fhould be bathed with the marshmallow ointment, and a ripening poultice, with onions boiled in it, fhould be daily applied over it. If by this method, continued four or five days, the inflammation in the throat and gullet is removed, our attention should more particularly turn to encourage the fwelling at the breaft, and bring it, if poffible, to matter : to which end, continue the poultice, and give two ounces of Venice treacle diffolyed in a pint of beer every night: when the fwelling is grown foft, it must be opened with the knife, and dreffed with the turpentine digeftive, the danger now being over.

But

But should it be found impracticable Some parto bring the fwelling to matter, and it ticular di-increases upwards, so as to endanger fuffocation; authors have advised to pierce the tumour with a hot pointed cautery in five or fix places, to drefs with the above digeftive; and, in order to ftimulate and promote a greater discharge, to add to it a fmall quantity of Spanish flies and euphorbium in powder; fomenting at the fame time, and bathing the circumjacent parts with ointment of marsh-mallows. M. Gueriniere, as well as Soleyfel, have advised opening the fkin, when the tumour cannot be brought to matter, in order to introduce a piece of black hellebore root fleeped in vinegar, and to confine it there for twenty-four hours; this also is intended as a ftimulant, and is faid to answer the intention, by occasioning fometimes a fwelling as big as a man's head.

Befides the diforders of the mouth, Diforders which we have already animadverted on, of the there are frequently obferved on the in-feribed. fide the lips and palate, little fwellings or bladders, called gizgs: flitting them open with a knife, or lancet, and wafhing them afterwards with falt and vine-

gar,

Of Ruptures, Anticor,

Canker, what.

gar, is in general their cure; but when they degenerate into what are called cankers, which are known by little white fpecks, that fpread and occasion irregular ulcers; the best method then is to touch them daily with a fmall flat cautery, moderately heated, till the fpreading is ftopped, and to rub the fores three or four times a day with Ægyptiacum, and tincture of myrrh, sharpened with oil, or fpirit of vitriol : when by this dreffing the floughs are feparated, they may be washed frequently with a fponge dipped in copperas, or fublimate water, if they continue to fpread; or a tincture made by diffolving half an ounce of burnt alum, and two ounces of honey, in a pint of tincture of rofes. Either of thefe will dry them up, and are very useful in most diforders of the mouth.

A relaxation of the palate.

A relaxation, and fwelling of the palate, fometimes happens to horfes on catching cold. To remedy this diforder, blow pepper on the part, or anoint it with the fame mixed up with honey. The tincture above-mentioned may be used for this purpose, to which may be added half an ounce of spirit of fal armoniac.

The

The colt-evil is fuppofed to arife from The colt-ftoned colts having full liberty with evil, and mares, before they are able to cover cure. them; whence frequently enfues an excoriation, or fretting on the glands, and a fwelling of the fheath : this laft diforder frequently proceeds too from dirt, or filth lodging there, and is often removed by washing the part clean with butter and beer: but when the yard itfelf is fwelled, foment it twice a day with marsh-mallows boiled in milk, to which may be added a little spirit of wine ; anoint the excoriation with the white ointment, or wash it with a sponge dipped in lime, to a pint of which may be added two drams of fuger of lead: the yard fhould be fufpended up to the belly; and if the fwelling should increase with inflammation, bleed, and give the cooling phyfick, anoint with ointment of elder, and apply the bread and milk poultice.

If a fimple gonorrhœa, or feminal The gogleet, is obferved to drip from the yard norrhœa, (which is often the cafe in high-fed young and cure. horfes, where a relaxation of the glands and feminal veffels has been brought on by frequent emiffions) let the horfe be Z 2 plunged

Of Ruptures, Anticor,

plunged every day into a river or pond; give him two or three rhubarb purges, at proper diffances, and intermediately the following balls.

A firengthning ball.

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TAKE of ballam of Copivi, or Venice turpentine, olibanum, and maflich powdered, of each two drams; bole armoniac, half an ounce: mix up into a ball with honey, and give it night and morning, till the difcharge leffens, and then every night, till it goes off.

Strengthning balls

Balls prepared with rhubarb and turpentine may also be given for this purpofe, two drams of the former, with half an ounce of the latter.

Obfervation. The Indian rhubarb is not expensive; it may be bought, at prime coft, under twelve pence an ounce.

But fhould this method not prove fuccefsful, two or three fpoonfuls of the following injection may be thrown up his yard every day with a fyringe.

An injec. tion. TAKE ballam of Copivi, half an ounce; break it with the yolk of an egg; and add to it lime-water, half

Colt-Evil, &c.

half a pint; honey of roles, two ounces.

When an ulcer on the proflrate glands When is fulpected, this injection is very proper uleful. at first, to deterge and heal the fore; but those more restringent should afterwards be used, in order to close up the relaxed ducts; for this purpole take the following.

Tincture of rofes, one pint; burnt A refirinalum, two drams; white vitriol, half ging ini:ction. a dram, or a dram.

But it is worth remarking, that if the Remark. horfe continues to fhed his feed, by rubbing his yard againft his belly; no medicines will avail, till he is cured of this vicious habit; which probably nothing will fo effectually contribute to remove, as caffration.

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APPENDIX.

CHAP.I.

Of particular diforders of the FEET.

o this chapter.

The caufe THE following observations and difcoveries from M. La Fosse, are fo important in their nature, and of fuch confequence to the publick, that in order to render this edition more compleat, we have thought proper to infert them here by way of Appendix, for the benefit of those who are not acquainted with that gentleman's valuable performance.

And hence it will demonstrably appear, The ighow lamentably ignorant farriers have norance of farriers. hitherto been, of the diforders attending the

Of particular Diforders, &c.

the feet of horfes; particularly of those fractures, to which the coronary and nutbones are liable; as well as of the tendoachilles, which this bone fuftains; alfo, of the different degrees of violence, to which this tendon is fubject, from the most flight distraction, or straining of its fibres, to its total rupture.

Though the discovery of these dif- The utiorders does not lead us to the manner lity of of curing them all, becaufe fome are in coveries. their nature abfolutely incurable, as the fractures of the coronary and nut-bone; yet it is of very great ufe, by undeceiving us in a point, that was always hitherto thought curable, from the ignorance of former practitioners; and confequently the owners of fuch horfes will no longer be imposed on, and for the future will fave the expences of a cure, that must be attempted in vain: for we may be convinced by the examination of the plates, that if it was even poffible to keep the bones together, fo as to favour their uniting, the fracture being in a joint, there would remain a stiffness, or callus, which would render the horfe unfit for fervice.

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Of particular Diforders

The plates mult be fludied.

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In order to be thoroughly acquainted with thefe diforders of the feet, the anatomical plates of the diffected parts mult be attended to: which indeed are fo well defigned, that the nature and feat of each may be fufficiently known, to make a true prognoftic of their different kinds, without having fludied anatomy, the mechanifms and functions of the parts being made obvious to common capacities.

Common errors expofed. From hence it will be difcovered, that the lameness in horfes, which commonly is looked for in the shoulders, hips, or haunches, is in the foot.

First, Proceeding either from the comprefion of the fleshy fole, by the coronary bones pushing against it; which lameness often becomes incurable, by the coalescing of these bones, for want of applying remedies in due time.

Secondly, The great tendon, called tendo-achilles, is frequently ruptured, very often overftrained.

Thirdly,

of the FEET.

Thirdly, The coronary bones are fometimes fractured into three pieces, or more.

Fourthly, The nut-bone into two, fometimes three parts, but always fractured with the coronary bone.

Fifthly, The foot-bone is fractured in two.

Sixthly, From bad fhoeing, many and various lameneffes enfue.

These diforders M. La Fosse has clear- The ly defcribed, and after many tedious and cafes exfruitlefs endeavours to cure thefe complaints, by variety of diffections, he has found the tendo-achilles fometimes ruptured near the infertion, and the coronary bone broke into three pieces, without any diflocation; perhaps the reafon of this may be drawn from the confideration of the manner in which the coronary bone is joined to the pastern, and foot-bones, by their ftrong ligaments; which being three in number, each feems to have retained its part of the bone, and favoured its division into three parts.

plained.

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It is remarkable, that these accidents Cauled fometimes enfue very flight efforts; the by very fudden forts.

Of particular Diforders

fudden fpring of a horfe, at fetting off, or the leaft falle ftep, being fufficient for that purpose.

How theie lameneffes become incurable.

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A lamene's frequently enfues a compreffion of the coronary bone; for thatbeing in motion, it raifes and pulhes the nut-bone against the tendon, which puts the fleshy fole in a state of compression, as if between an anvil and a hammer: if the inflammation brought on by these means is not discussed foon, by proper applications, or drawing the fole, the cafe becomes incurable.

Thus we fee, that an effort, or firain, which might not be violent enough to fracture the coronary, or nut-bones, nor even rupture the tendon, may produce an inflammation of the flefhy fole, and be communicated to the ligaments, tendoos, and capfulæ of the joints. As the confequence of fuch inflammation is generally an anchylolis, or fuff joint, fo the drawing the fole, according to M. La Foffe's repeated experience, prevents fuch fliffnefs, and offifications, as it relieves the flefhy fole from preffure: for the fole is regarded as an expanfion of the mufcles and tendons of the foot; and as this operation enlarges the

Drawing the fole recommended.

of the FEET.

the fpace in the hoof, the flefhy fole being no longer preffed, its inflammation ceases and the foot recovers its natural state.

When the fole is drawn, the foot The manfhould be fuffered to bleed, in order to per of empty the blood-veffels, and lympha- dreffing. ticks: let it be dreffed with the turpentine digeflive; but do not bind it up too Why the ftrait, and let the hoof be drefled with hoofs of emollients, to moiften, extend, and hould be foften the parts : for the hoof of a horfe kept may be compared to a fponge ; when it moint. is dry, it contracts itself, even to the inner parts; if it be moistened, it foftens, and dilates: if he ftand long in a ftable, without taking care to keep the hoofs moift, he often goes lame; becaufe the hoofs are fusceptible of contraction, as well as dilatation.

The compression in the hoof happens The comby the coronary puffing against the nut- preffions bone, upon which it partly moves, as we for anato-have observed before; which having the mically. action of a lever, takes for its point of fupport the upper and fore part of the foot bone compressed; the nut-bone, which it raifes, and which pufhes against the tendo-achilles; which tendon preffes the

St.E.

Of particular Diforders

the flefhy fole against the horny one: and all these combined compressions produce an inflammation upon the fleshy fole, which spreads all over the other parts.

From the different attitude of the foot.

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It is extremely probable, that the different attitudes of a horfe's foot, overcharged at the fame time with the weight of his body, caufes the different fractures of the coronary and nut-bones; for when the foot has not a direct polition, the joints are twifted, as when a horfe treads upon the point, or toe of the hoof; the upper and inner part of the coronary bone, which is in an oblique polition, preffed in that flate by the burthen of his own body, is forced to yield on one fide, and rife on the other; its lower and back parts, which now rife, drive the nut-bone against the tendo-achilles, which fustains it: the tendon in its turn preffes against the fleshy fole, which is also compreffed against the horny fole, which is its point of fupport; the tendon, coronary, and nut-bones become fractured upwards and backwards, by the paftern, which alfo had an oblique polition; and downward and forward, by the foot or coffin-joint, which here acts as a wedge : let

of the FEET.

let us now fee how thefe diforders are to be discovered.

Strong compressions are diffinguished, How by pushing the thumb upon the coronet, compref-which makes a horse feel as sharp a pain, discover. as if there was a fracture ; when the com- ed. preffion is not fo violent, as that it cannot be thus known by the coronet, it must be examined in the foot; the horny fole must be pared till it becomes flexible under the tool, which must be done as near the frog as can be; the tool muft be preffed, and if the horfe is fenfible of it in that place, we may be affured that there is a compression of the coronary bone upon the nut-bone.

The length of time the compression has Observacontinued, may be known by the adhesion tion. of the horny to the flefhy fole; for the horfe bleeds but little after drawing it, becaufe of the interception of the fluids by the compression.

Fractures of the coronary bones are How fracdiftinguished in raising the foot by the tures are lower part, where a finall tumour is ob- difcoverferved; the foot must be drawn forward, ed. and preffed upon the coronet with the thumb, and if there is a fracture, a ratling will

Of particular Diforders

will be perceived: when the tendon is not ruptured, it fuftains the bones, and as it is their point of fupport, the noife is lefs fenfible, but it is beft diftinguished when the tendon is divided.

The method of cure

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The method of curing the comprefion, is to pare the fole to the quick, to let him bleed at the point of the foot; then drefs it up with oil of turpentine, and apply an emollient poultice all over the foot, and round the coronet: afterwards foment with the difcutient fomentation: above three-fourths of thefe cafes, according to M La. Foffe, are cured without drawing the fole, but the moft certain remedy is to draw it immediately; by this method he has cured horfes in fifteen days, that were not able to put their feet to the ground.

The rup. The rupture of the tendo achilles is ture of the cured by comprefs and bandage dipt in vinegar or verjuice, only keeping the extremities of the tendon in clofe contact: this is greatly favoured by binding the fetlock, and keeping it in that polition, by a fplint externally applied, fo that the foot cannot bend outwards.

Reflexions From thefe observations, it may be on the concluded, as also from the nature of whole.

of the FEET.

tendinous and membranous fibres, the tenfions and elafticity of which is very great in the foot, that they are fusceptible of all the unhappy confequences of compreffion.

That it is to no purpose to keep horses Fragues who have any fractures, except in the of the foot-bone, which is capable of uniting; fmall becaufe it has fo little motion, and is to the foot firmly fecured. There can be no hopes incurable, of curing the fractures of the nut and coronary bones, as we do the ruptured tendo achilles, for all their articulations are in continual motion; and if by chance they should unite, the horfe would still be inevitably lame, by the callus formed in the joint.

That in cafes of all ftrong compreffions Comprefupon the flefhy fole, against the horny fions of fole, which is an expansion of the mul- fequence cles and tendons of the foot, the in-without flammations will offify the joints of the proper foot, by the ftagnation of the fluids; un- care. lefs care be taken in time to disperse it by medicines, or drawing the fole.

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CHAP. II

Reflections on Shoeing HORSES.

worthy the fludy letters.

The horse T T is no small pleafure to observe, that fo useful an animal as the horfe, is not of men of thought unworthy the fludy, and even manual affiltance, of men of reading, anatomical knowledge, and a capacity to form their practice upon judicious and well conducted experiments: the obfervations in the former chapter fufficiently confirm our affertion, nor will the fubfequent ones in this, give the curious reader a less favourable opinion of M. La Foffe's abilities, who feems to be a perfect mafter of his fubject; as the points he treats on are a fet in a new light, and are very material to the prefervation of the animal he patronizes.

Shoeing horfes an important affair.

Indeed the affair of fhoeing horfes is fo important in its confequences, both for the prefervation of the foot, the fafety of the legs, and the eafe of their motion, that we cannot be too attentive to any innovations that may be recommended to us in this refpect; we shall therefore give

· Reflections on Shoeing HORSES. give that gentleman's fentiments on this fubject, with fuch animadverfions as have occurred to us.

In order to understand this new method of fhoeing, it is neceffary first to premife the following observations, and attend to the anatomical plates before referred to.

It is most certain, that all horses, ex- Shoes not cept fuch as have their feet overgrown, intended or fuch as may have a particular occasion of being fhod to preferve the fole, may, at any rate, go without fhoes; and there are many examples, without mentioning the cuftoms of Arabia, or Tartary, of horfes who are daily at work, without the leaft need of ever being fhod : but as we employ all our care and address to hollow the foot, by paring it even to the quick, and to form an exact fine frog, it becomes abfolutely neceffary to fet fhoes on them.

The original defign of fhoeing horfes, Shoeing was undoubtedly intended, as a preferva- first contive of the hoof, and a defence of the trived to fole; but no one fure could think it the hoof. peceffary to pare away what he wanted

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by nature.

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to preferve by the ufe of the fhoes; becaufe that would be to act contrary to his first principles, and destroy his own work.

The abfurdity of mended, but in cafes where the horny puring the fole is uneven, infomuch that the fhoe fole. could not bear equally upon it, which would take off from its neceffary firmnefs; in fuch a cafe it may be reafonable, otherwife it would be very abfurd.

> Let us now observe the going, as well as the external and internal structure of a horfe's foot.

How different horfes prefs on the foot.

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The horfe then who draws, prefies first on the toe, then fucceflively on the fides, to ease the toe; then the horfe's heel yields upon the heel of the fhoe, from which it immediately rifes again.

The faddle, or pack-horfe, places the toe but lightly, fo that the point of fupport is fixed neither upon the heel or toe, but between both; which it is eafy to demonstrate anatomically. Fig. 1. Plate II.

Thus

Thus the cannon-bone 3, preffes on How the the paftern 4, this on the coronary 5, the foot the coronary upon the coffin, or foot- are actuabone 6, and upon the nut bone 3, Fig 2. ted.

By this defcription of the bones, we may observe two effential things, which lay open the faults in the prefent method of fhoeing, and point out the means of being able to remedy them for the future ; where one is, that the effort of the weight of the weight a horfe does not bear either upon the toe of the or heel, but on the middle between both ; bears. the other fhews the greater the diffance of the fole from the ground, or from whatfoever point of fupport, the more the pufhing the coronary bone upon the nut-bone will fatigue the nerve or tendon upon which it refts, by the inordinate diftenfion it undergoes at every ftep the horfe takes.

Thus we fee, that by hollowing away By paring the fole in paring, the horfe is fultained away the only upon the walls of the hoof, which fole, it is having no affiltance of support from the fullained horny fole, is immediately worn, and hoofs. battered by the weight of the horfe's body; and the fooner he treads upon Aa 2 any

any hard fubstance the fooner he grows quite lame.

Other inconveniencies from paring the fore.

For by the connection, thicknefs, and flexibility, as well as contexture of the horny fole, it feems to be wholly defined by nature to ferve as a cufhion to the flefhy fole and tendon, which refts upon it in order to break the violent flocks of a pavement, ftone, or any kind of ftump, or external violence; but by paring it away in the cuftomary manner, the horfe lofes his defence of nature againft ftumps, nails, glafs, $\mathfrak{Sc.}$ and thus the flefhy fole becomes eafily bruifed, or wounded.

It is observable, that a horse feldom Why the horfe goes goes eafy or efcapes being foon jaded, unealy, if the frog does not bear upon the ground, when the frog is not as it is the only point of fupport to the in contact tendon; fo that if you keep it at any diftance from the ground, by paring it with the ground. away, an inordinate diftention will happen to the tendon ; which being repeated at every flep he goes, fatigues it, and caufes an inflammation; whence alfo relaxations, defluxions, and tendinous fwellings, efpecially after long journeys, or hard riding, which are occafioned more by the paring of the fole, than the length

length of the journey; experience has thewn, that the frog neither fuffers, or The frog has thewn the leaft fign of fatigue or receives fentibility, by being thus expoled : and ^{no injury} by being indeed, from the thructure of it, it is expoled. fcarce poffible; for being of a fort, fpongy, flexible fubftance, by its natural elafticity it yields to the weight of the body the inftant the horfe preffes his feet to the ground, and immediately recovers it again: however, there is one cafe, whereby the frog may occafion lamenefs, which is, when it grows hard or dry; but by taking off the little end of the frog, this diforder is foon remedied.

As the bad confequences of paring The efaway the fole and frog have been pointed fects of out, and, I think evidently proved, let modern us obferve now the ill effects of modern fhoeing. fhoing; for it is upon the form of the fhoes, and manner of fetting them on, that not only the prefervation of the foot, but alfo the fafety of their legs, and the eafe of their motion depends.

In effect the more eafy our fhoes fet upon us, the more active we are; fo a large, long, thick fhoe, ought to have the fame effect upon horfes, that wooden A a 3 fhoes

thoes have upon us; that is, make them heavy, unwieldy, and hobbling.

The inconvenience of long fhoes.

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A long fhoe is not only perfectly ufelefs, put it is even prejudicial; for the horfes heels coming to fink upon thofe of the fhoes, the longer the lever, the greater will be the drag upon the clinches of the nails of the toe; and thus horfes will be more apt to flrike them off on many occafions, effectially when they are apt to over-reach.

Of wide fhoes alio.

The longer the floe is, and the more it covers the fole, the more liable the horfe would be to fall, trip, and hobble in his walk : particularly if he goes on a pavement; becaufe the furface being formed of round parts, and the floe having a large uniform hard face, he can fcarce have above two or three points of fupport.

Strong fhoc-heels are very uneafy to the horfe, and why.

It is thought by fome, that ftrong fhoeheels are an eafe to the weak heels, and fetlocks of horfes; as if the body of the fhoe was flexible enough to yield to the horfe's heel; and under this notion they raife the fhoe-heel, and leave a vacant fpace between that and the horfe's heel; but the direct contrary happens, for it is

is the hoof that, by its flexibility, yields to the floe-heel, which is quite inflexible; the thicker the floe-heel is, the more fubject that of the horfe is to meet it, and inftead of being eafed, the horfe's heel becomes more compressed, as if in a conftant vice, because it has always the fame point of fupport.

By this means they deprive them of the liberty of going with eafe upon a pavement; becaufe the floe does not bear upon a level, and produces an effect, like that of a pivot, upon the middle of the fhoe-heels, and the vault or hollow.

To obviate these inconveniencies, M. M. La La Fosse proposes the following method Fosse's of fhoeing; that neither the fole or frog method of fhould be pared at all; for neither will ever become too large by its growth : but in proportion as it grows, it will dry, Icale, and fall off in flakes; that the edge of the hoof, if thought too long, should be taken down as ufual; and then a fhoe, in form of a half moon, fet on, reaching the middle of the hoof; the heels may be thinned, and the fhoes made a little longer for fuch horfes as have weak hoots.

fhoeing.

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Eight

Eight finall nails, made in the old way, that is, having very finall heads, are incrufted in the holes, which are made, as the head is, in an oblong form; the figures both of the fhoe and nail are to be feen in the first anatomical plate. This is the whole mystery.

The advantage of this method.

By this method the fole is preferved, and confequently the foot defended againft hard or fharp bodies, which the horfe may chance to tread on: thus inflammations, and dangerous compressions, are avoided, and the many inconveniences already mentioned, from the lodgment of fand, gravel, or ftones.

Other advantages.

Another advantage arifing from this method of fhoeing, and preferving the fole, that natural defence against external injuries, is, that in not paring away the fole, nor fetting on any more fhoe than is neceffary to preferve the horny fole, the horfe will not be fubject to flip, either on the winter's icy pavement, or the dry fmooth one of the fummer.

The ule

of the frog For by making a horfe walk upon the and heel, when they frog, and partly upon the heel, the fortouch the mer being ftrongly rubbed, and pufhed ground.

against the ground, or pavement, imprefies itself, as it were, by the weight of the horse's body, into the inequalities and interstices it happens to meet in its way; by this means, the foot refling on agreat many more parts, which mutually ease it, by multiplying the points of support, gives the animal a stronger adherence, and more security upon the place he goes.

By paring away the fole, the air, when The injuit is in this thin flate, penetrates, and ry the air dries it to fuch a degree, that by its conthe fole traction it comprefies the flefhy fole, fo when paras to lame the horfe.

By this means, alfo, fand and gravel Other inget in, and are ground between the fole juries to and fhoe; and again between the horfe's the foot, heel and thofe of the fhoe; which not by paring readily coming out again, caufe compreffions, inflammations, & c. which laft accidents are very often the effects of a ftone's being wedged in between the fhoeheels.

To recapitulate the whole.

The weight of the faddle-horfe does not prefs upon the toe or heel, but on the

the middle between looth; fo that the greater the diftance of the fole from the ground, or from whatever point of fupport, the more the great tendon will be fatigued by the incordinate differition it undergoes at every ftep.

The larger the horfe's fhoes, the lefs firm he goes.

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The more the fole is covered by the fhoe, the more the horfe will flip, flide, or fall; becaufe the furface being formed of round parts, and the fhoe having a large uniform hard face, he can fearce have above two or three points of fupport; fo that the greater contact the horfe's foot has with the ground, the more points are multiplied; and the fafer of confequence he genes.

By fhoeing, no other intention could be expected, but preferving the hoof, after paring away its luxuriancy.

That long floes, and raifing the floeheel, is a very; pernicious cuftom.

Many inconveniencies from paring the fole.

1

By paring; away the horny fole, it hardens in proportion to its being thinned, and by compressing the fieldy fole, makes a horfe lame; he loses also the defence of reature against external bodies, by Reflections on floeing H O R S E S. by which means the flefhy fole becomes often wounded, bruifed, \mathcal{C}_c .

By paring the frog fo much away, that Alfo from it is not in contact with the ground, the paring the tendon will be inordinately diftended; frog. by which means, it becomes fubject to inflammation, relaxation, defluxion, and rupture.

Laftly, It appears from the anatomy The preof the foot, that horfes are chifly lame fent mein those bones and its tendon; that the thod of present method of shoeing contributes to horny fole, and hollowing the foot; by the butes to horny fole, and hollowing the foot; by the frewhich means, the shefty fole becomes quent more exposed to accidents, and the tenin the don fatigued, strained, and ruptured; feet. its support being taken away by paring the frog.

We may learn alfo from hence, that The floe no more of the toe flould be pared away, flould be than to keep the foot uniform with the flat, not floe; that the floe flould be made flat, thick or in order to adapt itfelf the better to the foot; not made too thick or hollow, nor projecting beyond the horfe's heel.

This,

this mewhod of floeing.

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This is the fubftance of M. La Foffe's new method of fhoeing ; which from its fimplicity, and the great eafe of perform-Some ob- ing it, feems to demand our regard and jections to attention : but though it appears well calculated for the flat pavements and roads of France, yet we doubt its general fuccels with us; efpecially in fome of our rough flony countries, where the heel and frog, being left fo entirely defencel fs, might be liable to frequent injuries from fuch irregular loofe bodies, as flints, loofe ftones, &c. We fhould sufpect also its fuccefs on moilt, greafy. and flippery foils or chalks; where the fhoe-heel, or cramps feems of great ule to fupport a horfe, by the impreffion it makes in the furface, how inconvenient foever it may be in other respects ; though i it mult be confessed, from our method of fhoeing race horfes, where the whole foot comes into immediate contact with the ground, notwithstanding the course they run over is often very flippery, yet they feldom fall.

- But though this method may not be "Though notof gefo generally adopted by us, in its utmost neral ule extent, for the reafons above given; here, yet as well as from the different texture of has great horfes merit.

Reflections on Aboeing HORSES.

horfes feet, which in fome will always demand a particular method of fhoeing; yet it undoubtedly may fuit many horfes, and many different parts of the kingdom ; and this particular advantage every one may reap from it, viz. to pare away as little of the fole and frog, as poffible, even in the old method of fhoeing : the many inconveniencies of which, we apprehend, have been fufficiently pointed out, and amply explained; and would by this means, be in a great measure obviated.

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EXPLANATION of the Anatomical FIGURES.

PLATE the First.

THE first figure represents the bottom of a horse's foot.

a, a, a, is the horny fole.

b, the frog.

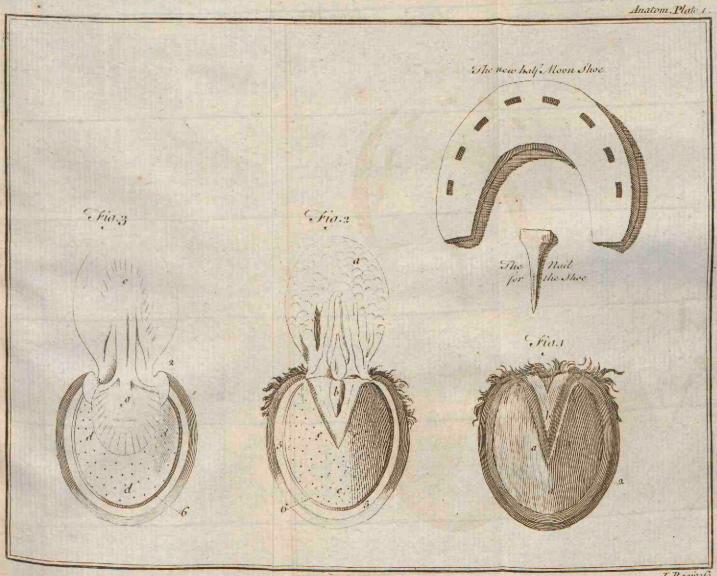
2. The boof towards its lower edge, called by the author the wall of the foot.

Figure the fecond, fhews the horny fole a, raifed from the flefhy fole c, c, c, round which is the enchannelled flefh, 6. placed in the fulcus of the inner furface of the hoof, 5. the horny part of which is foft and white.

Figure the third reprefents the under part of the flefhy fole c, raifed from the foot-bone * d, d, d, g, the covering or fheath of the *Tendo-Acbilles*. 2. The cartilage. 6. The edge of the flefhy fole confined in the furrow of the channelled horny fubftance.

* 'The foot-bone is Gibfon's Coffin-bone.

Expla-



12.

EXPLANATION, Sc.

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Explanation of the Figures of the Second Plate.

The fourth figure flews a back view of the leg.

7. The fkin laid open, in order to view the inner foft parts belonging to the articulations.

8. The apneurotic membrane, formed of different laminæ, which feperate the muscles and cutaneous tendons.

9. and 3. Are partly the covering of the flexor tendon of ------

5. The coronary bone *, which ferves as a covering to the Tendo-Achilles, 10.

11. The ligament of the cannon-bone, the paftern and the coronary bones.

16. The cup or capfula of the tendon of the coronary bone.

18. The cannon-bone+.

6. The foot-bone.

Figure the fifth is the fame leg, and in the fame view.

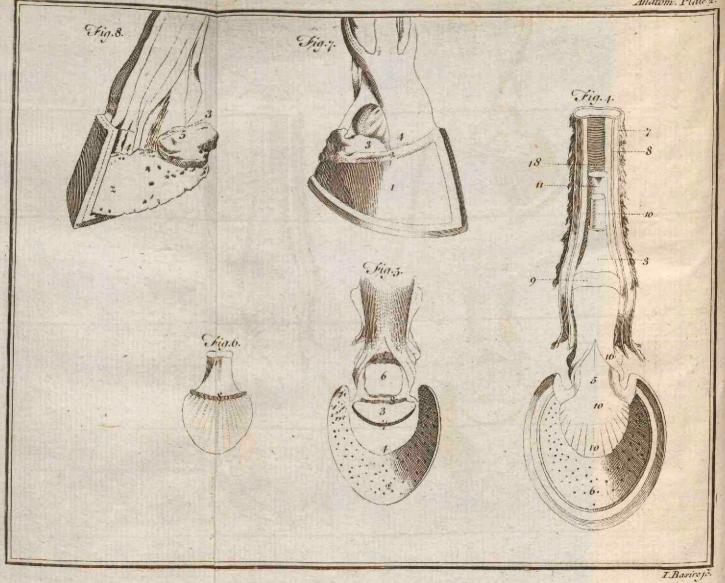
2. The foot-bone.

* The coronory bone is the little paffern of Gibson.

+ French authors call those bones Cannon-bones, both hefore and behind, which Gibson calls in the fore legs, the Shank-bones, and in the hind legs, the Typep-bones.

I. The

Anatom. Plate 2.



EXPLANATION of the

1. The Tendo-Achilles, cliffected to fhew the coronary bone. 6.

3. The nut bone *.

4. The concave part of the foot-bone to which the tendon is fixed.

7. The ligament of the foot-bone with the nut-bone.

8. The ligament of the tendon with the nut-bone.

Figure the fixth, reprefents the Tendo-Achilles raifed and feparated from figure 5, to fhew the lamina 8, which ferves as a ligament to the nut-bone of the fame figure.

Eigure the feventh, fhews the enchannelled flefh. 1. The wall or hoof being raifed from it. 2. The rough border that furrounds the enchannelled flefh above the hoof.

3. The cartilage of the foot.

4. The extensor tendon of the foot.

Figure the eighth, demonstrates the bone of the foot Z; the enchannelled flesh of which is raifed with the cartilage.

* The nut-bone, called by the French, Os de la noix, is a little oblong bone placed acrofs at the junction of the little and great pafterns behind, which is not taken notice of by Gibson.

5. The

Anatomical FIGURES.

5. The ligament of the coronary-bone with that of the foot.

3. and 4. The extensor tendon of the foot.

The Third Plate, containing Figures of the ofteology and fracture of the bones.

Figure the first, represents a fore view of the leg.

3. The cannon-bone cut acrofs at the upper end.

4. The pastern-bone.

5. The coronary-bone.

6. The foot-bone.

The fecond figure is a back view of the fame leg.

8. The cannon-bone.

4. The paftern,

5. The coronary-bone.

3. The nut-bone, which cannot be feen in a fore view.

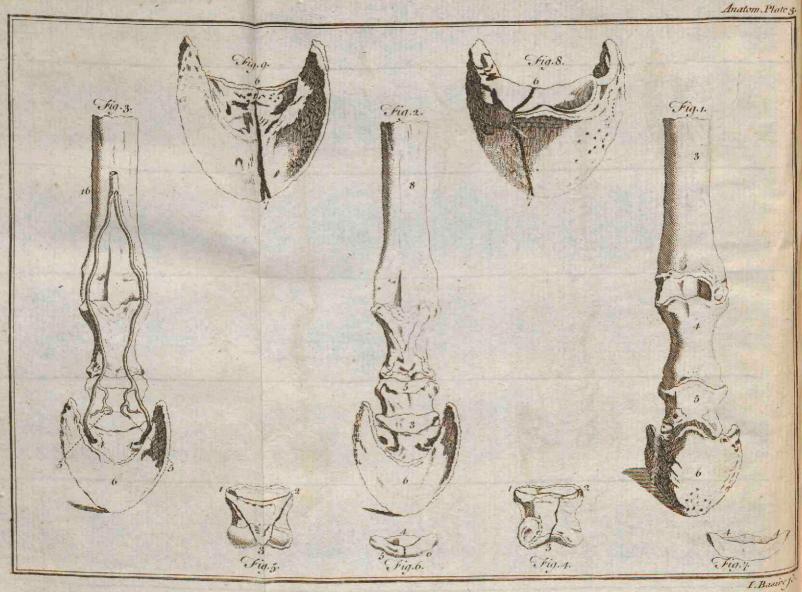
6. The foot, or coffin-bone.

The third figure is another back view of the fame leg.

16. The place where the artery divides into two branches.

4. The holes into which thefe two branches pafs in the foot. Вb

5. The



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EXPLANATION, Cc.

5. The diffribution of these two branches round the foot.

6. The foot-bone.

The fourth figure is the coronary-bone viewed anteriorly with the marks of its fractures, 1, 2, 3.

The fifth figure is the fame coronarybone in a back view, with the appearance of the fame fractures, 1, 2, 3.

The fixth is the nut-bone fractured into three parts, 4, 5, 6.

The feventh fhews the fame bone fractured into two, 4, 4.

The eighth is a figure of the foot-bone viewed on its upper furface fractured in two, with the mark of the fracture, 6, 7

The ninth is a view of the under furface of the fame bone, with the fracture marked 6, 7. This bone is very fpongy.

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