OBSERVATIONS ON CANINE MAD-NESS.

BY M. PORTALI

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PORTAL begins his Observations on the Nature and Treatment of Canine Madnels, with relating the tigns of this difeafe as it appears in the canine species: but thefe, at least in its early stages, are very uncertain. All dogs which are mad do not bite: at least M. Portal faw a fmall spaniel which died of the disease, but never attempted to bite any of the other dogs of the house. Two, however, of these dogs licked his mouth, and were feized with the malady eight days after. But M. Fortal does not inform us how the spaniel contracted the disease. It should seem, from his having been allowed to mix with the other dogs, that he was concluded to have been mad from the two dogs being taken ill after having licked his mouth. But that these dog; were seized with canine madness is not clear, as they spipear to have been immediately killed.

After describing the appearances of the wound, and the pains in the neighbourhood of the part bitten, which prec de the fill more alarming symptoms of the disease, he says their extremities grow cold, and the fense of cold is sometimes so intenfe that the fufferers often deferibe it as feated in the very marrow of their bones, The pulse is small, the urine very clear, the skin rough and dry, and the perspiration confiderably diminished. Some have had shiverings, and an intermittent pulse for a month previous to the commencement of the hydrophobia. These symptoms, accompanied by an affection of the respiration, and spalmodic contractions of the mufcles of the lower jaw, and of those employed in speaking, form what he calls the first stage of the discuss. cond stage the cold is succeeded by heat, which diffuses itself through all the limbs, increasing with more or less quickness and violence, till at length it becomes, in the internal parts, most intense, especially in the head, the throat, and above all in the part bitten. The pulse rifes generally in proportion as the heat increases, and the third becomes excessive. The urine ceases to be fecreted, or becomes as red as blood, and the cheeks of fiery rednefs.

There are few diffuses, in which we have received so little information from opening the bodies of those who have died of it, as in hydrophobia. Fur author, after relating the observations of preceding diffectors, gives us the history of two cafes which he had the opportunity of exafes which he had the opportunity of exafes.

mining himself. But we may remarks that there are few, if any circumftances, which have been constantly observed in all the diffections. The Jarynx and phatynx have been frequently found more or less inflamed; but in other inflances fuch appearances have been fearcely perceptible. The pericardium has been generally found without any water in it; but in ons of Morgagni's diffections there were three ounces of a yellowith fluid. The brain has often been found very dry, but in two or three of Morgagni's, and in one of M. Portal's, there was found in it a quantity of reddift ferum. The blood is often fluid. but it is femetimes coagulated. Some of the hodies putrified rapidly, while others feemed as little prone to putrefaction. Hence diffection feems, in this difeafe, to prove to us rather what are not its causes. than to demonstrate what they are.

M. Portal, in treating on the fymptoms of the difeafo, shows, that the dread of fwallowing liquids is the effect of the exceffive irritation which they experience in the organs of deglution, and explains why they fwallow folids fo much more readily. The pain they fometimes experience fro.a light, he attributes to the increased sendbility of the nerves, which he observes enables them to distinguish small objects in a degree of light in which they would be quite invisible to others. He once remarked, he fays, the fame in a young pbyfician labouring under a malignant fever. The affections of the organs of generation in both fexes he attributes to the fame cause; and the whole of the symptoms he very juffly confiders as arifing from an excessive fensibility of the nerves, and irritability of the muscular fibres, occasioned by the action of a peculiar virus.

With regard to the communication of the disease, M. Portal is of opinion, that the faliva of a mad animal is the only fource of infection. The disease is not commuricable by the fweat, the feminal liquors, the blood, or the milk. Men as well as animals, have drank the milk, and eaten the fieth of mad animals, without any ill confequences; and the ancients directed the persons bitten to eat the liver, the spleen, or dried blood of the mad animal. M. Portal goes on to observe, that it is introduced either by wounds or by the mouth. He calls in question the observations of the ancients which feemed to prove, that the faliva of a mad animal applied to the fkin of an animal in health, was capable of producing the difeafe, remarking, that we no longer hear of any inflances of persons being attacked with it. in confequence of attending upon perfons afflicted with that malady, though it is