VII. An Account of the Dissection of an Eye with a Cataract. By Mr. John Ranby, Surgeon.

SEpt. 21. 1723. I was consulted by one William Sollars, aged Fifty, who complain'd of a Decay in his Sight; upon examining his Eyes, I found two Cataracts, that in his right Eye almost ripe, the other just forming. There being no other obvious Method of relieving him, I propos'd the Operation, but first advis'd him to consult some others of the Profession, and accordingly he advis'd with my ingenious Friend Mr. Tanner, who, upon viewing his Eyes, declar'd them both Cataracts, but that neither of them was as yet fit for the Operation. In the mean time the poor Man fell ill of a Fever, and died the 2d of March. I procur'd the Right Eye, in which the Cataract was most confirm'd. in order to make an exact Diffection of it: In examining it, I found the Aqueous and Vitreous Humours in their natural State, but the Crystalline Humor was opake and of a foul Pearl Colour, and more folid Substance than in its natural State. The generally receiv'd Opinion, that a Cataract is a Film growing behind, or fometimes before the Pupil, made us examine both Chambers of the Aqueous Humour, with the utmost Exactness, but all to no Purpose, for the Aqueous Humour had its natural Transparency, nor could we obferve any thing preternatural either on the Iris or Vvea. except too great a Contraction of the Pupil. This very much strengthens the Opinion of Maitrejan, Brisse, Heister, and Valsalua, who have severally afferted, that a Cataract is only an Opacity of the Crystalline Humour, and that it naturally proceeds from a Serous Acid.

Acid, which fo far aftringes and corrodes its Substance, as to destroy its Transparency. This, Maitrejan confirms by an Experiment of immerging the Crystalline Humour in a Composition of three Parts Water and one of Aquafortis, by which he tells us it may be render'd hard and opake; but in this Point I cannot help fiding with the learned Dr. Pitcairn, who has fufficiently proved, that there is no fuch Serous Acidity in an animal Body. To me nothing feems more easy than to deduce this Opacity of the Crystalline Humour from an Inflammation in the Blood, or an increas'd Momentum in the Fluids. with which it is supply'd: for in that Case grosser Particles, inconsistent with the Transparency, may be impell'd into the Lymphatick Vessels of which it is compos'd; and that there is an Inflammation is fufficiently demonstrated from hence; first, the Patient feels often a pungent Pain in the Eye, which as it is generally the forerunner of a Cataract, fo it certainly indicates an Inflammation of the Part. Secondly, Those Macula, which appear as it were swimming in the Air, plainly prove that there are opake Particles already enter'd the Lymphatick Veffels, which compose the Vitreous Humour.

Thirdly, the *Iris*, whose Colour arises from the Blood Vessels, as it changes from a lighter to a darker Colour, shews the Violence of the Inflammation, and is therefore esteem'd a Symptom of the worst Consequence.

FINIS.

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