Surgical Anatomy of the Lens and its Adnexa and some Pathophysiological Remarks Based on it

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The macroscopic and microscopic anatomy of the lens, the zonula and the limbal region, insofar as these are of importance for the surgical manipulations in the course of the lens extraction, can be described histologically. It is also possible, however, to give some information on the physical behaviour of the structure concerned, from direct macroscopic and stereomicroscopic observation. This technique of description leaves the purely histological observations aside. In particular, histology cannot supply observation or information on tensile strengths and preferential cleaving planes of membranous structures like lens capsule, zonula and anterior vitreous humor membrane. The vascular anatomy of the limbal region can also reasonably well be evaluated in semimacrodissection. The vascular anatomy as a whole is also worth studying in connection with optimal cataract incisions, etc. Finally, a purely hypothetic consideration is given on the function of the aqueous humor and some pathophysiologic consequences of this.