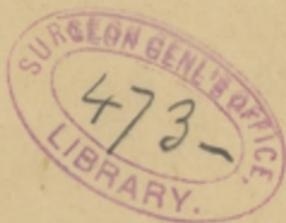


BELT (E.O.)

Rat-tail sutures





### RAT-TAIL SUTURES.

BY E. OLIVER BELT, M.D.,  
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ABOUT five years ago, while resident physician in the Presbyterian Eye and Ear Hospital of Baltimore, I saw Dr. Chisolm uses fibers from the tail of an opossum for sutures in some of his eye-work. I thought such fibers a good substitute for silk, and spoke to my brother, Dr. A. M. Belt, about it. Shortly afterward a rat was caught at his residence; he had the tail skinned and soaked for several days in water, after which, upon slight manipulation, it separated into perhaps a hundred fibers, each about eight inches in length. These were placed in alcohol and presented to me, upon request, for use in eye surgery. I found the fibers strong and much finer than those from the opossum tail, or any other animal suture, and have been using them quite extensively in suturing the conjunctiva in pterygium operations, and in advancing the recti muscles in correcting strabismus.

These sutures have been most satisfactory. As soon as moist they become agreeably soft to the eye, and have never to be removed, while silk sutures are rough and irritating as long as they remain in the eye, and their removal is somewhat painful. Patients from a distance are often detained five or six days to have the silk stitches removed, when rat-tail sutures might be used and the patient allowed to depart immediately. These sutures will no doubt be found useful to the general surgeon and gynecologist when they need strong and fine animal sutures. About once a month, for two or three days, I soak the fibers in a corrosive sublimate solution (1 : 5000), and as I have never had any trouble whatever from their use, I think it probable that this suffices to render them aseptic.







