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**Microbiological results of 713 Endophthalmitis specimens: 25 year analysis** Name of Authors: Hagemann LF, Hofling Lima AL **Purpose:** To present the microbiologic data obtained from smears and culture results of the specimens submitted to the ophthalmology department laboratory between 1976 and 2001. **Methods:**We retrospectively reviewed the laboratory results charts of 713 suspected cases of bacterial endophthalmitis specimens submitted to bacteriology diagnostic tests (smears and cultures) from 1976 to 2001. **Results:**The most common isolate was *Staphylococcus aureus*, in 25 (43%) specimens of aqueous humor, 15 (22%) specimens of vitreous tap and 3 (17%) specimens of pars plana vitrectomy. Of the 713 specimens, 354 (49,6%) had a known surgery performed in the same eye before, cataract surgery being the most performed procedure in 247 (70%) cases. The overall results were: smears were positive in aqueous humor in 158 (43%), vitreous tap in 122 (40%) pars plana vitrectomy in 30 (77%) specimens, and cultures positive in aqueous humor in 56 (15%), vitreous tap in 63 (20,5%) pars plana vitrectomy in 16 (40%) specimens. **Conclusions:***Staphylococcus aureus* was the most common isolate. Cataract extraction was the most performed surgical procedure in suspected cases of endophthalmitis.