

ACUTE *AEROMONAS HYDROPHILA* ENDOPHTHALMITIS AFTER PHACOEMULSIFICATION

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Purpose: To report a case of acute post-phacoemulsification endophthalmitis due to *Aeromonas hydrophila*.

Methods: Case report.

Results: An 80-year-old man suffered from acute onset of blurred vision, redness of the eye, ocular pain, and purulent discharge 10 days after phacoemulsification of the right eye. Clinical examination revealed moderate corneal edema, moderate anterior chamber reaction, exudative membrane extending from the surgical site, many clusters of pigment clumps on the surface of the intraocular lens (IOL), and severe vitreal inflammation. Eye swab cultures were obtained and systemic and topical antibiotics were prescribed for acute post-operative endophthalmitis. The eye swab cultures were positive for *A. hydrophila*. Pars plana vitrectomy with anterior chamber irrigation was performed for debridement. The post-vitrectomy condition was satisfactory; however, retinal detachment developed. To reattach the retina, fluid–gas exchange, supplemental laser photocoagulation, and cryopexy were performed. Subsequently, his ocular condition improved and remained stable.

Conclusions: Ocular *A. hydrophila* infections often develop in immunocompromised patients with systemic infection and in patients with ocular wounds due to contaminated water. Most of these cases require evisceration or enucleation. We present a case of acute *A. hydrophila* endophthalmitis after phacoemulsification. The patient's condition was stable, and his eye was saved after treatment.

Keywords: *Aeromonas hydrophila*, Endophthalmitis, Phacoemulsification

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