

Epidemiology of acute endophthalmitis after cataract surgery in a Mexican hospital for a period of five years : Incidence and Outcome.

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Epidemiology of acute endophthalmitis after cataract surgery in a Mexican hospital for a period of five years : Incidence and Outcome.

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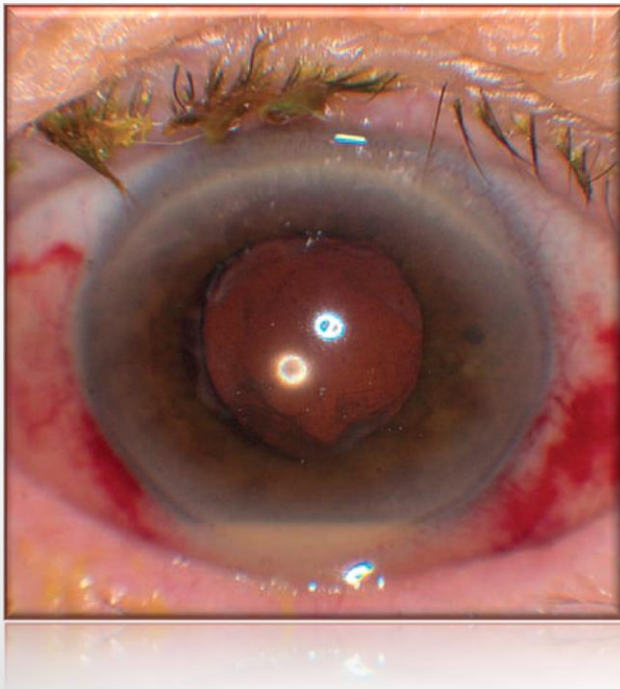
**We have no financial interests in
the subject matter of this poster**



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Purpose

- To investigate the epidemiology of postoperative endophthalmitis after cataract surgery in a mexican hospital for a period of five years



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Methods

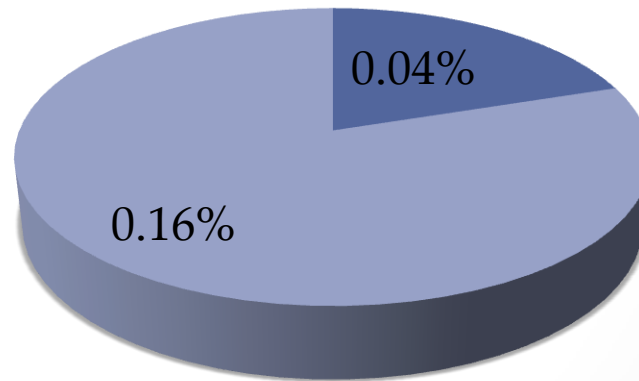
- Retrospective , observational case series.
- January 2005 to April 2011
- Main outcome measures: Incidence, surgical technique, intraoperative complications, treatment, microorganisms found and final visual acuity.



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Results

- The Incidence was
 - 0.06% (15/24601) (95% CI 0.0030 -0.0028) for cataract surgery by any method
 - 0.04% by phacoemulsification
 - 0.16% by extracapsular extraction



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Results

- 53.33% patients had any complication
 - seven posterior capsule rupture requiring anterior vitrectomy
 - one zonular dialysis with placement of capsular tension ring.
- 100% patients received intravitreal and topical vancomycin, ceftazidime and dexamethasone,
- 40% underwent posterior vitrectomy.



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Results

- Resistance to commonly used antibiotics
 - 31.20% to vancomycin
 - 30% to ceftazidime
 - 15.30% to moxifloxacin
 - 7.40% to gatifloxacin
- After a median follow-up of 120 days, best-corrected visual acuity in the affected eye was
 - less than 1.00 logmar in 10 (62.5%)
 - more than 0.4logmar in 3 (20%).
- A predictor of final visual acuity better than 0.4 was baseline acuity of counting fingers or better (OR 0.05)



Conclusions

- Endophthalmitis is a devastating complication , particularly when it occurs after any intraocular surgery, 10 million cataract surgeries are performed each year , with 26,500 cases of endophthalmitis , giving an incidence of 0.06 % - 0.32 %
- The incidence in our hospital is 0.04% as reported in the literature .
- Organisms causing postoperative endophthalmitis are gram positive 90-98 %



Conclusions

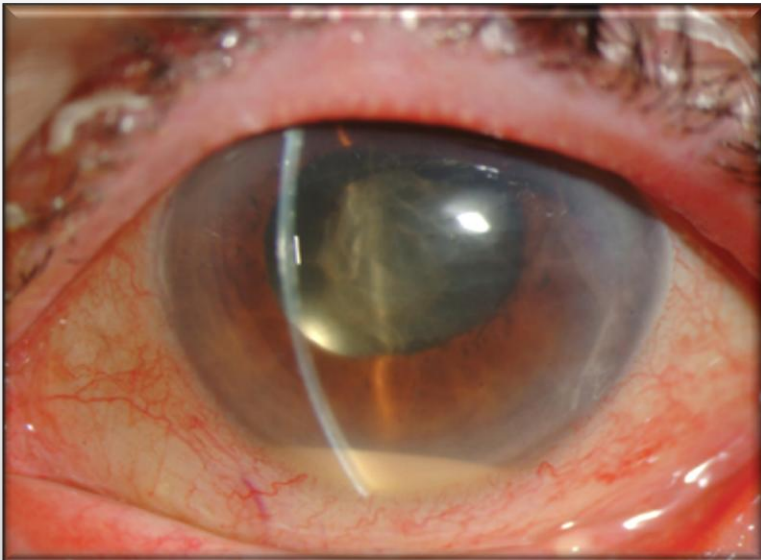
- The treatment given to our patients is reported in the literature , it is important to consider the resistance found in our study to the most commonly used antibiotics (vancomycin plus ceftazidime) , and that sometimes it is necessary to consider the use of a different antibiotics
- That´s why is so important to take samples of aqueous humor and vitreous humor .



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Conclusions

- The potential risk factors described above are intra operative complications that prolong surgical time , immunosuppression, silicone intraocular lenses and no self-sealing incisions that occurred in our patients by up to 53.33 %



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