

Small Incision Cataract Surgery SICS {Manual Phaco}

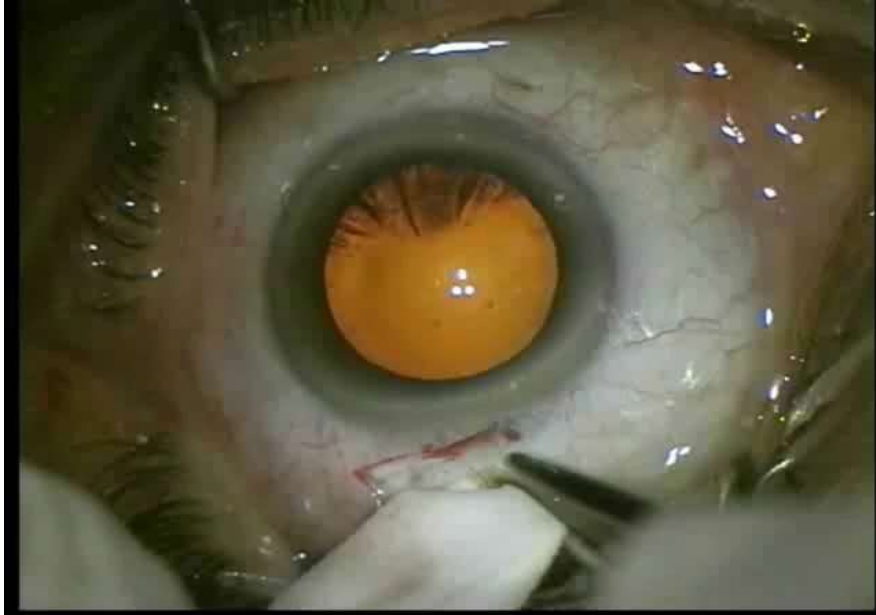
Mohamed Sedky, FRCOphth



What Is the perfect *CATR*ACT surgery?

- Fast , Less traumatizing
- Safe , Less complications
- Reproducible
- Less postoperative astigmatism
- Less cost

Manual Phaco



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Complication rates of phacoemulsification and manual small-incision cataract surgery at Aravind Eye Hospital

Aravind Hattaraja, MD , **David F. Chang, MD**, **Masareetha Rana, MS**, **Madhu Shekhar, MS**
Dr. Aravind Eye Hospital, Chennai, India; Dr. David F. Chang, Los Angeles, California, USA; Dr. Masareetha Rana, Aravind Eye Hospital, Chennai, India; Dr. Madhu Shekhar, Aravind Eye Hospital, Chennai, India

 Research Square

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Purpose

To analyze the rate of intraoperative complications, reoperations, and endothelialitis with phacoemulsification, manual small-incision cataract surgery (SMICS), and large-incision extracapsular cataract extraction (ECCC).

Setting

Aravind Eye Hospital, Madurai, India

Design

Retrospective cohort study

Methods

Results

The surgical distribution was 28/438 (6.4%) phacoemulsification, 15/683 (2.2%) manual SMICS, and 37/6 (7%) ECCC. The overall intraoperative complication rate was 0.79% for staff, 1.19% for fellows, 2.06% for residents, and 5% for visiting trainees. Extracapsular cataract extraction had the highest overall rate of surgical complications (2.6%). The overall complication rate was 1.81% for manual SMICS and 1.11% for phacoemulsification. However, the combined complication rate for trainees was significantly higher with phacoemulsification (4.8%) than with manual SMICS (1.4%) ($P < .001$). The corrected distance visual acuity was better than ≤ 12 in 76% after phacoemulsification, complications and 49% after manual SMICS complications ($P < .001$). There were 27 cases (6.04%) of endothelialitis but no statistical differences between surgical method or surgeon groups.

Conclusions

For staff surgeons experienced with both phacoemulsification and manual SMICS, intraoperative complication rates were comparably low. However, for trainee surgeons, the complication rate was significantly higher with phacoemulsification, suggesting that manual SMICS may be a safer initial procedure to learn for inexperienced cataract surgeons in the developing world.

Complications and Outcomes of Phacoemulsification Cataract Surgery Complicated by Anterior Capsule Tear

Gianluca Carifi¹, Michael H. Miller, Christos Pitsas, Vasiliki Zygoura, Rajesh R. Deshmukh, Nikolaos Kopsachillis, Vincenzo Maurino

Moorfields Eye Hospital, London, United Kingdom

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Article Info

Purpose

To study the results of phacoemulsification cataract surgery complicated by anterior capsule tear.

Design

Retrospective interventional controlled case series.

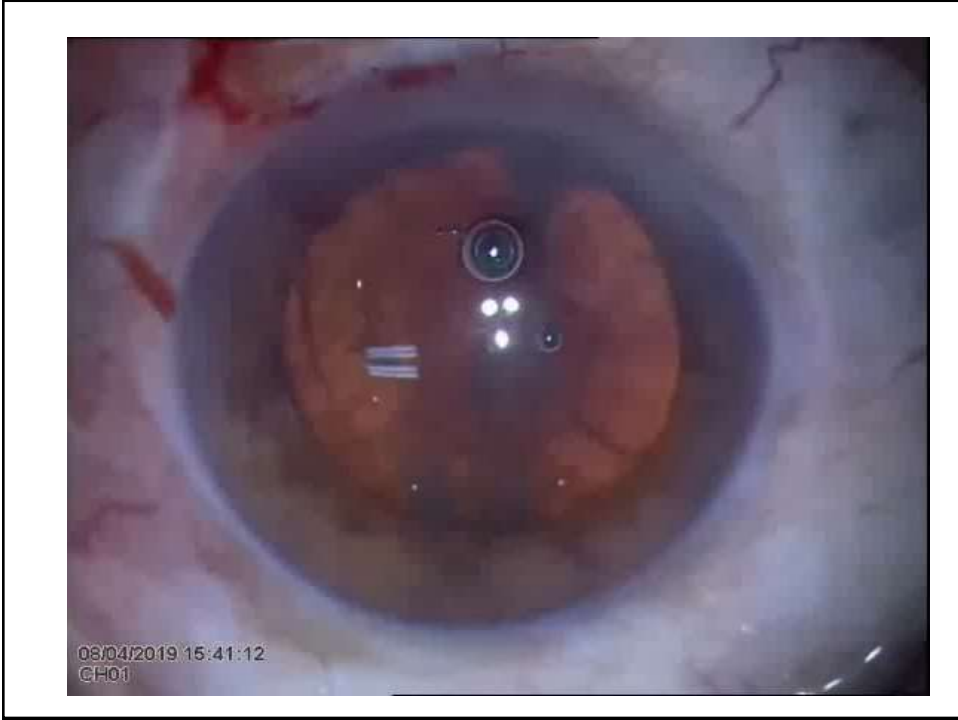
Methods

Consecutive series of eyes suffering intraoperative anterior capsule tear and others with uneventful cataract surgery at Moorfields Eye Hospital were investigated. Biometric, intraoperative, and postoperative details were recorded. The exclusion criteria were combined surgical procedures, planned manual extracapsular cataract extraction, and history of previous intraocular surgery or eye trauma. The main outcome measures were intraoperative capsule complication rates, refractive and visual outcomes, and incidence of short-term postoperative complications. Two-sided Fisher exact and paired *t* tests were used for categorical and continuous data, respectively.

Results

The study and control groups included 339 and 313 eyes, respectively. In the study group, planned





Take home message

- Phaco is still a standard technique
- No challenging cases
- Skilled surgeon , Multiple tasks

No Conversion

- Manual Phaco..... Already converted

Thank You

