

The Eye-Nose Collaboration to Optimise Patient Care in Endoscopic Dacryocysto-Rhinostomy (EDCR)

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Background

Nasolacrimal duct obstruction is a common problem in

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the elderly that causes tearing , blurred vision & infection.

Patient Satisfaction Level

• Likert score 1-5; 1: dissatisfied, 5: very satisfied

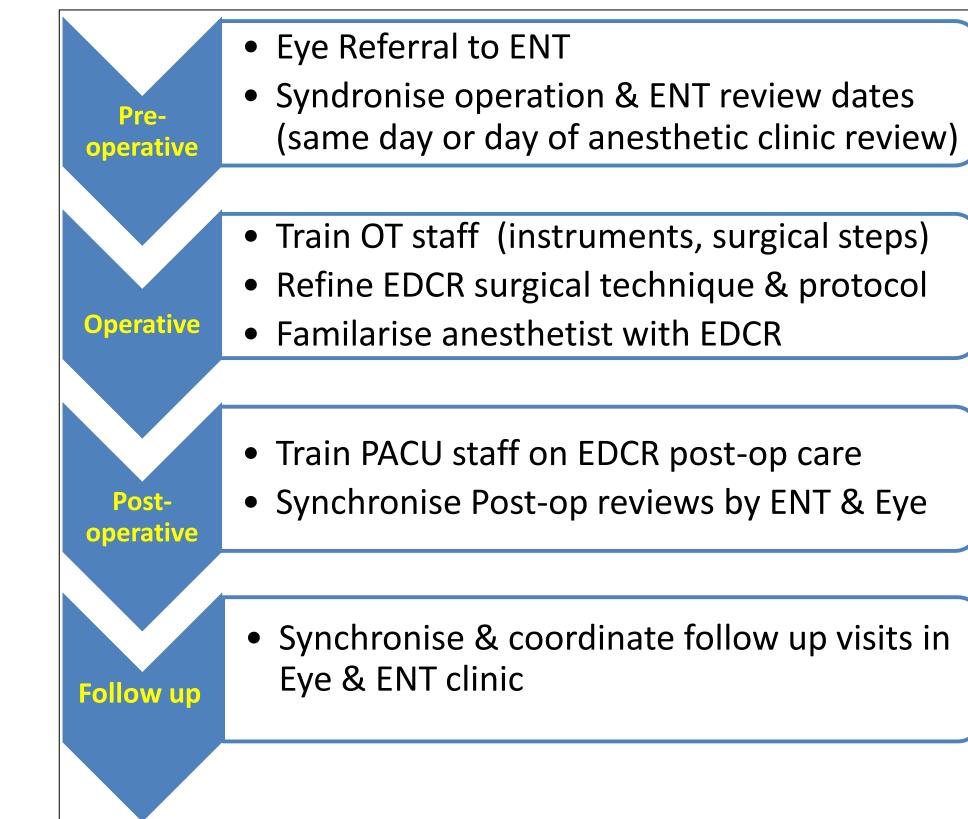
Mean Satisfaction Score	

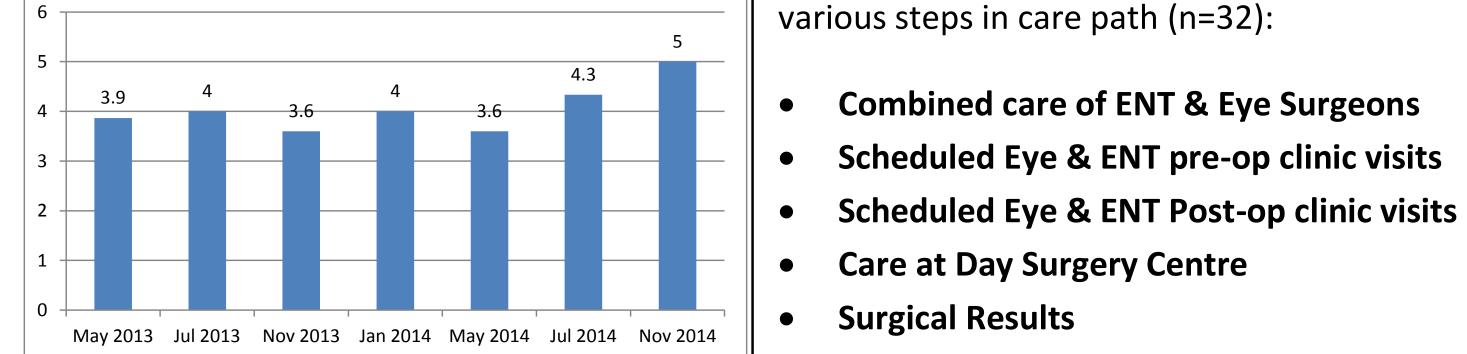
5-Question Survey on satisfaction level to

EDCR is preferred over open surgery to treat NLDO due to its faster recovery, surgical precision, better hemostasis & skin scar-free.

Methodology

• A collaborative project by OVS & ENT Departments to develop a hassle-free care path for managing EDCR patients.





Project Impacts

- One stop listing & financial counseling in Eye clinic
- Seamless, hassle free visits to eye & ENT clinics
- *Maximizing resources & expertise* of both dept
- Advancing surgical skill & knowledge of both
- *Early detection & treatment* of post-op problems
- Co-development & refinement of technique
 - *Shorter surgery* (1.5-2.0 hour to < 1 hour)
 - Surgery with *cheaper instruments*
 - *Reduced need* for nasal septoplasty
 - *spurred on further collaboration* in nasal endoscopic surgery (orbital decompression)

Value Stream Mapping

Pharmacy Dept.
-prepares mitocycin C for intra-
op useAnesthesia Dept.
- aware of special needs during
GA.Trans-disciplinary care & coordination

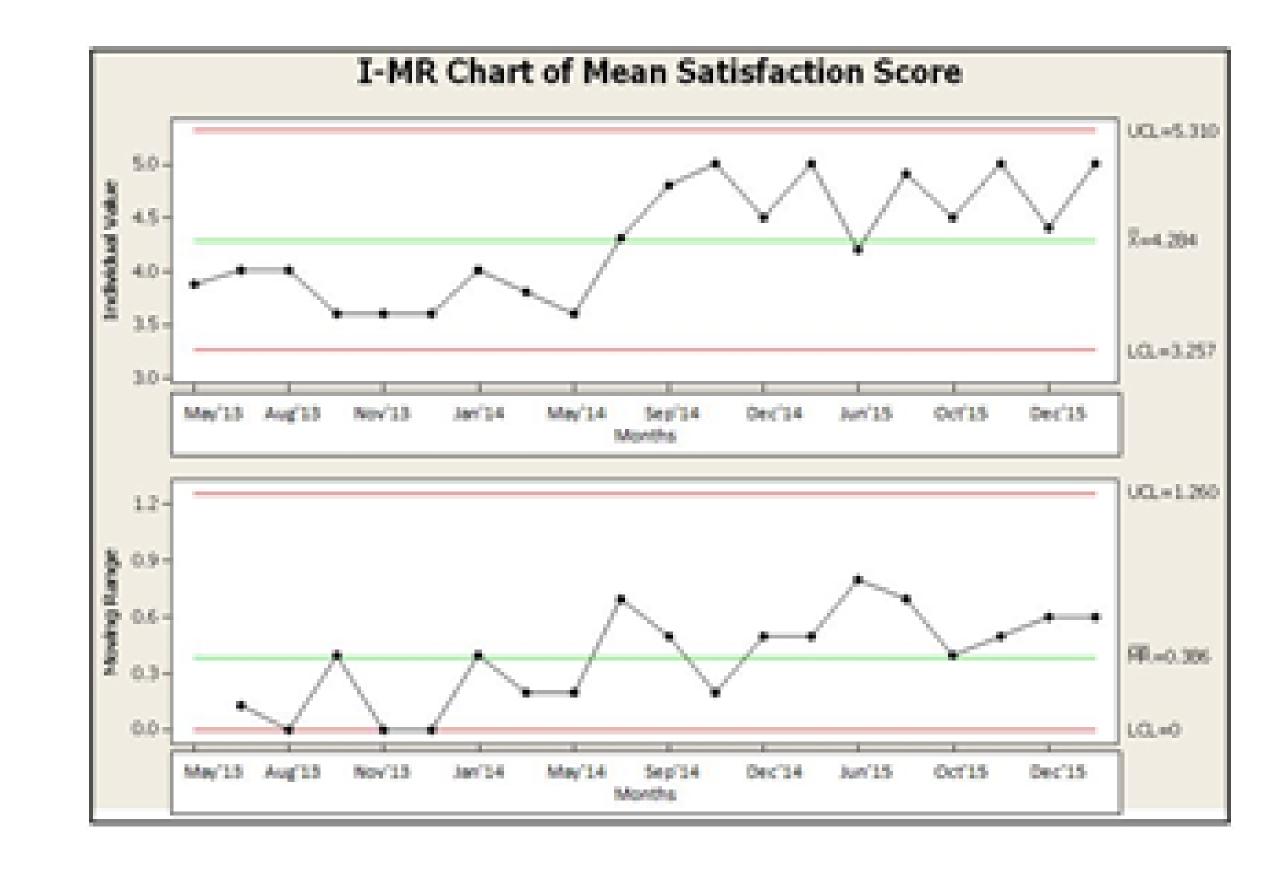
to optimise outcome

The surgical outcome, surgical complication rate & overall patients' satisfaction level are measured.

Results

Sustainability

- Cross functional & Deployment Flow Charting & communication to all ground staffs
- Process Standardisation
- **Poka-Yoke measures** eg. administrative SOPs, OT protocol, simulation practice on common operational scenarios eg. severe epistasis
- Training & Education: orientation & refresher
- Run charts to monitor long term progress:



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• FY 2013 to date, n = 33 EDCR cases

<u>Surgical Outcome</u> (n=24, ≥ 1year follow up)

- 93.5% success rate of symptomatic resolution (tearing and/or eye discharge)
- comparable to that of external DCR & higher than reported rates for EDCR (ranging from 70-90%).

Surgical Complication Rate

- Only minor ones like dry eye (1/24, likely pre-existing) & mild bruising (3/24)
- Follow Up Activities:
 same day reviews (Eye, ENT, PAT)
 orbital decompression care path.

Conclusion

EDCR Care Path optimises care, improves outcome & enhances medical advancement.