Digital Cataract Clinic Versus Face-To-Face Clinics – Do They Have An Impact On Patient Reported Outcomes Measures (PROMs) Of Cataract Surgery?

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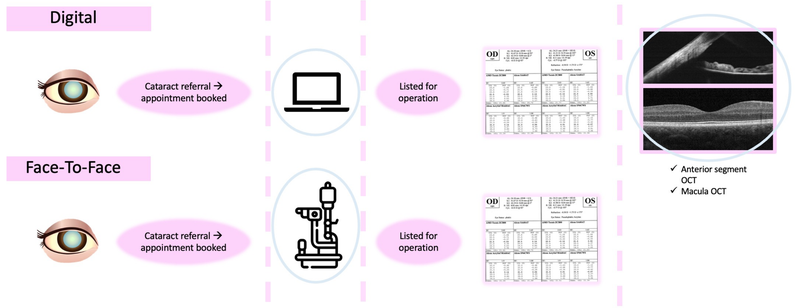
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Introduction

What are Patient Reported Outcome Measures (PROMs)?

- Patient Reported Outcome Measures (PROMs) are a type of **healthcare assessment tool** that allows us to gather a **patient's perspective** on their health.
- Questionnaires that are: Short | Structured | Repeatable | Psychometrically robust | Patient perspective
- For cataract surgery there are two main PROMs questionnaires available:
  - CATQUEST-9SF
  - CATPROM-5
- In this case we have used the international **CATQUEST-9SF**

What is the novel digital cataract service?



Aim

- To evaluate the digital cataract service compared to the face-to-face service.
- Clinical outcomes in the digital cataract service such as visual acuity and Posterior Capsular Rupture (PCR) rates have been analyzed and are non-inferior to the face-to-face service.
- **Our aim was to see if PROMs in the digital cataract service are non-inferior to the standard face-to-face service.**

Methods



Patient listed for cataract surgery

- September 21 to July 22
- Both Digital and F2F
- No exclusions

DrDoctor

Pre-Op PROMS questionnaire sent via digital platform (DrDoctor)

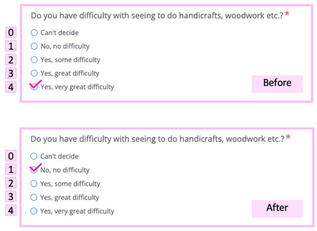


Cataract operation performed

DrDoctor

Post-Op PROMS questionnaire sent via digital platform (DrDoctor)

Results analyzed on Excel



Excel

Handicrafts and woodwork

Before	After	Diff
1	1	0
2	2	0
4	1	-3
2	0	-2
3	2	-1
3	2	-1
1	1	0

Further data points collected from Medisoft

medisoft

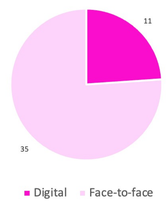
- DOB – Age
- Digital or F2F
- Date of Operation
- Simple/Complex patient
- Comorbidities
- Simplex/Complex cataract
- Surgical Complications
- Guarded Prognosis
- Grade of Surgeon

Results

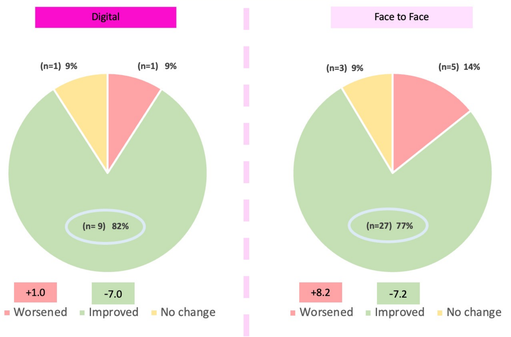
Total number of patient: 46

Digital: 11

Face to Face: 35

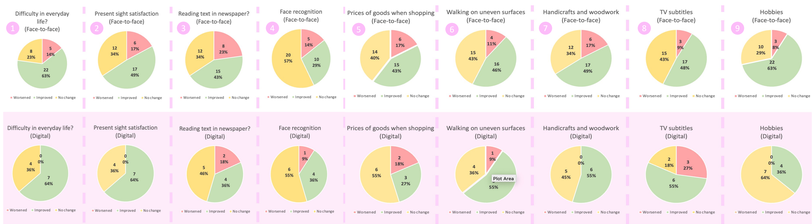


Change in PROMs outcomes



Results

PROMs data per question



Discussion

- The results show that PROMs in the digital cataract service are non-inferior to those of the face-to face service. In fact, the results indicate that it may even be better with an 82% improvement in the digital cataract service compared to a 77% improvement in the face-to-face service.
- We have considered why this could be:



- Having correlated the results with data on Medisoft we found no difference in the complexity of the cases or grades of surgeons.
- There could be a difference in the amount of time spent talking to the patient as in the face-to-face service time is spent on other things such as entering the room and examining the patient. However, we would need to undertake a formal time motion analysis to determine this.

Conclusion

PROMs in the digital cataract service are non-inferior to the face-to-face service.

We already know the digital cataract service is non-inferior to the face-to-face service in terms of clinical outcomes.

So now we can conclude that:

overall, the digital cataract service is non-inferior to the face-to-face service.