

ONE-YEAR RETROSPECTIVE REVIEW OF THE PRIMARY REATTACHMENT RATE AFTER PRIMARY RHEGMATOGENOUS RETINAL DETACHMENT (RRD) SURGICAL REPAIR FROM 01/05/2022 UNTIL 30/04/2023

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INTRODUCTION

- Successful repair of RRD has been reported since 1930 (Gonin)
- Recent advances in surgical techniques have resulted in improved, more efficient surgery
- RRD repair outcomes are important for Clinical Governance and Revalidation

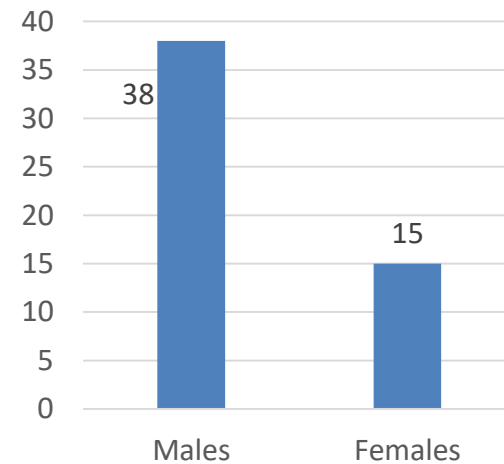
PURPOSE

To assess the reattachment rates after primary RRD surgical repair performed by one single VR surgeon (Mr. Charalambos Tossounis) at Royal Bournemouth and Christchurch Hospitals, University Hospitals Dorset NHS Foundation Trust from 01/05/2022 until 30/04/2023 and compare them with the results in the current literature (**See the 4 landmark papers used as standards in our reference section at the end of the poster. Based on this 4 papers, the current average success rate published in the literature regarding primary RRD surgical repair outcomes is approximately 81%.**)

MATERIALS-METHODS

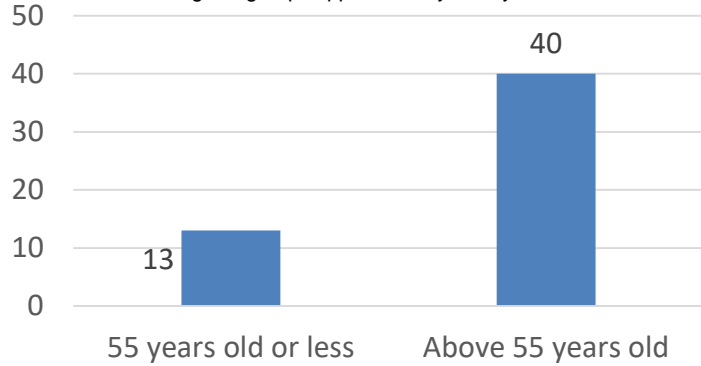
- Retrospective review of our electronic records from 01/05/2022 until 30/04/2023 (1 year) was conducted.
- Demographic data, types of RRD surgical techniques, laterality of procedures, involvement of the macula, and reattachment rate are reported.
- Minimum follow-up was 3 months post primary RRD surgery.
- Eyes with silicone oil already present in the eye, traumatic retinal detachments and previous intraocular surgery were excluded.

Patient Demographics
(N=53 patients in total)

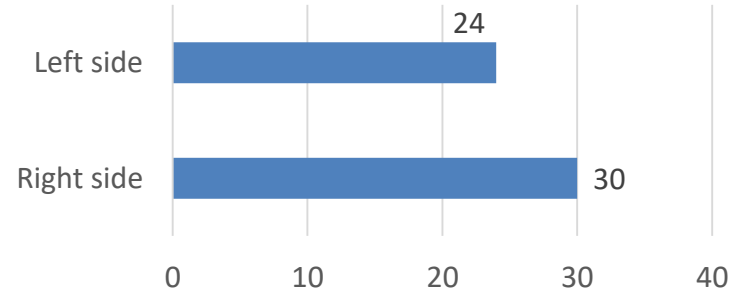


Age Groups (N=53 patients in total)

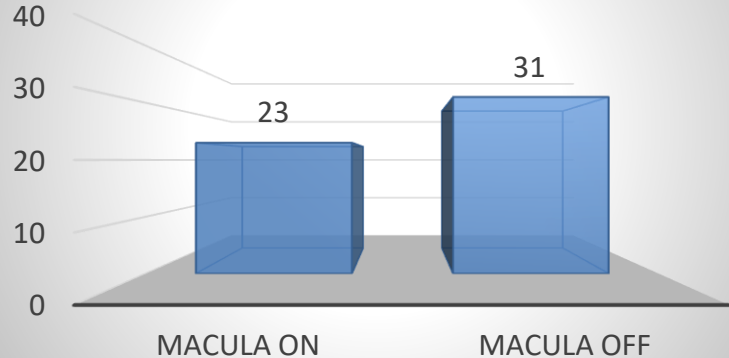
Mean age of group: Approximately 63.6 years old



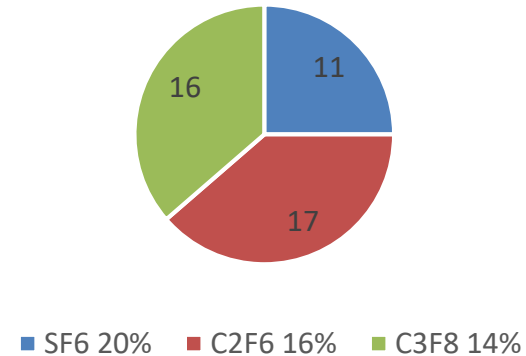
Laterality of operation (N=54 eyes-operations in total)



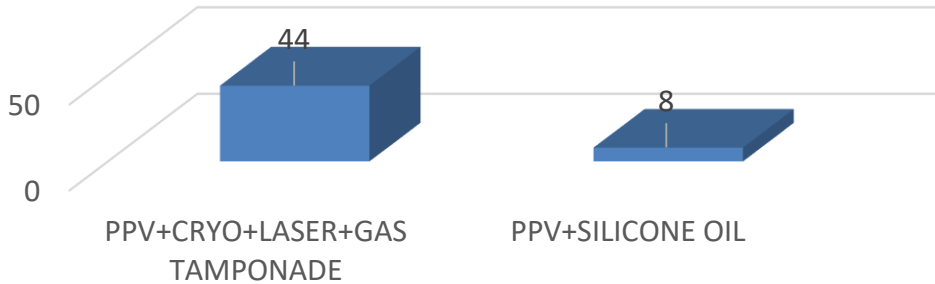
Integrity of the Macula (N=54 eyes-operations in total)



Vitrectomies with Gas Tamponade (N=44 eyes in total)



Number of Vitrectomies (N=52 in total)



Type of Operation	Total Number of cases	Success (N)	Failure (N)
Vitrectomy (PPV)	52	51	3
Cryo-buckle	2		
<u>Overall</u>	<u>54</u>	<u>94.4%</u>	<u>5.6%</u>

DISCUSSION AND CONCLUSIONS

- Our success rate was **94.4%**, which was above the average success rate reported in the current literature (**approximately 81% based on the 4 landmark papers in the reference section of the poster.**)
- Our aim is to reaudit annually and close the audit cycle every year.
- This is very crucial to maintain a high-quality level of vitreoretinal service provision in the rapidly aging population residing in Dorset County.

REFERENCES

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- 3) Mity D, Awan MA, Borooah S et al. Surgical outcome and risk stratification for primary retinal detachment repair: results from the Scottish Retinal Detachment study. Br J Ophthalmol. 2012 May;96(5): 730-734.
- 4) National Electronic Retinal Detachment Surgery Audit: Feasibility Report. A report commissioned from The Royal College of Ophthalmologists National Ophthalmology Database Audit by the Healthcare Quality Improvement Partnership, Jan 2017