Intravitreal 5–FU and LMWH for PVR Prevention: A Meta-Analysis of Randomised Controlled Trials

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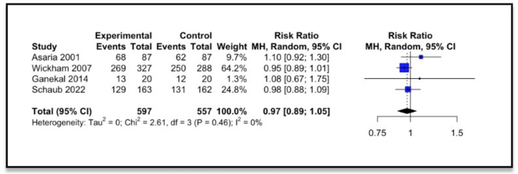
INTRODUCTION

1. Current RCT data evaluating the efficacy of Intravitreal 5-Fluorouracil (5-FU) and LMWH remains inconclusive
2. Hence, we sought to pool outcomes of RCTs to better elucidate the efficacy of 5-FU and LMWH in PVR prevention in patients with Rhegmatogenous Retinal Detachment

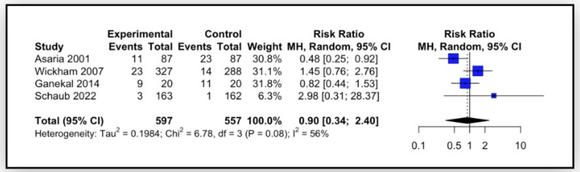
METHODS

1. PubMed, Embase and Medline was searched from conception until August 2022
2. Non-randomized and non-English Studies were excluded
3. Random-Effects Meta–Analysis using R was utilized (meta and metafor packages)

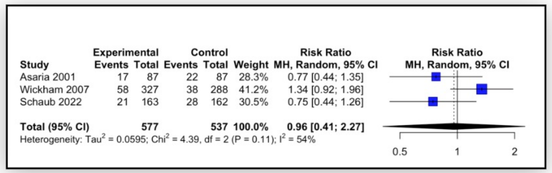
RESULTS



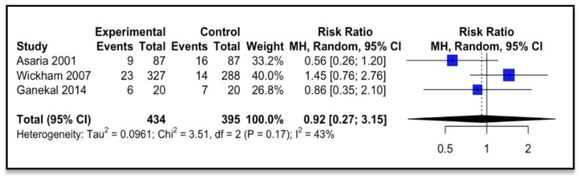
RESULT 1: Primary Success at 3-6 months



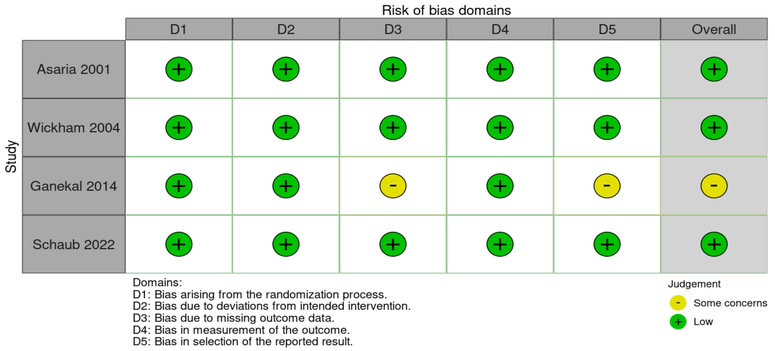
RESULT 2: Postoperative PVR



RESULT 3: Number of patients who underwent vitreoretinal reoperations



RESULT 4: Number of patients who underwent vitreoretinal reoperations due to postoperative PVR



CONCLUSIONS

1. No therapeutic efficacy of this combined pharmacotherapy over normal saline for PVR prevention was found
2. Our study demonstrates that this combined treatment should not be used routinely in vitrectomy for RRD patients
3. Longer term RCT data and individual level meta-analysis are needed to better elucidate efficacy