

Online Supplementary Document – Laughton et al. Gender Differences

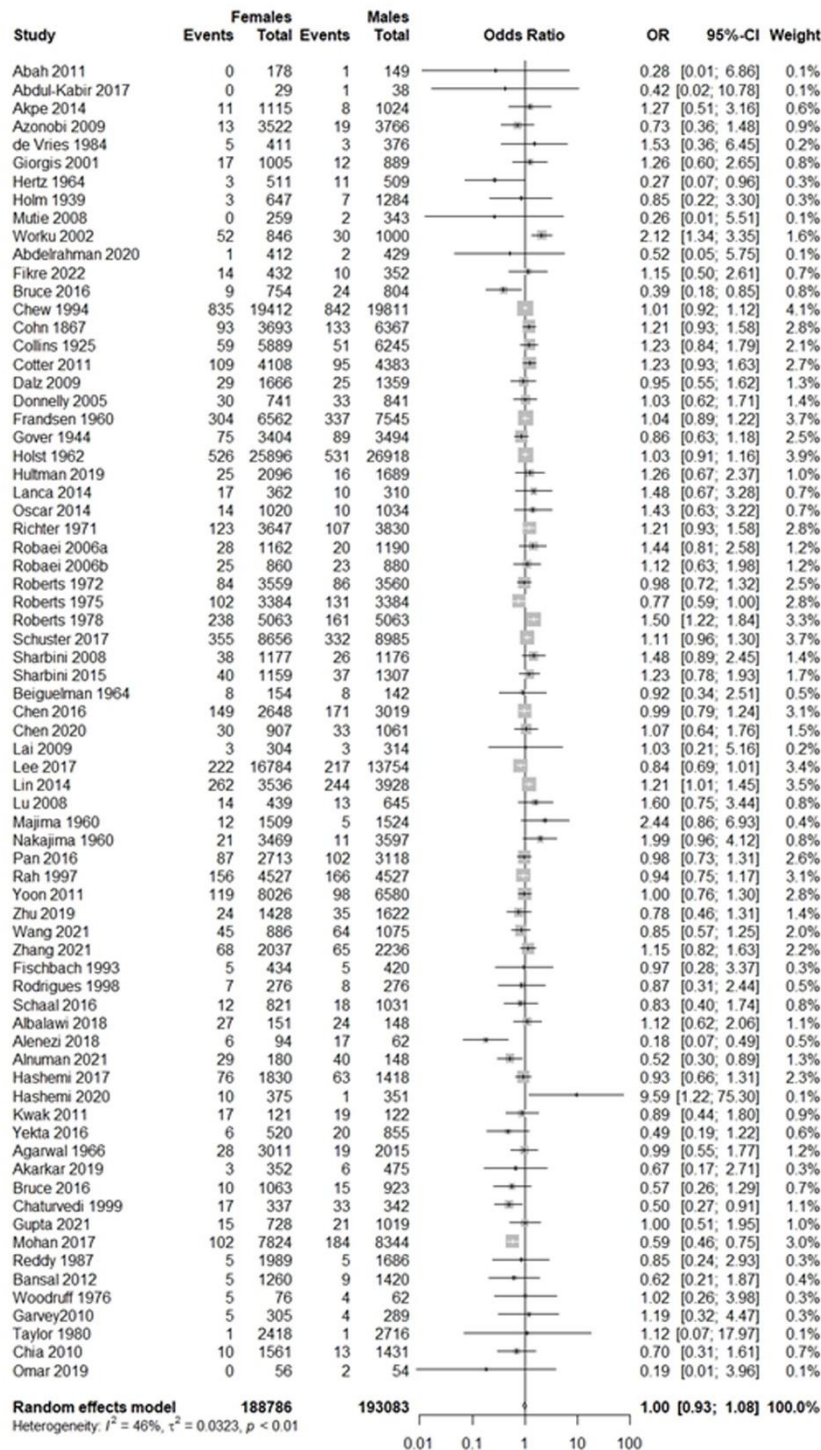


Figure S1. Forest plots of the odds ratio (OR) for males vs females in population-based studies of horizontal strabismus according to the meta-analysis. The OR is not significantly different between males and females (OR = 1.008, 95% confidence interval (CI) = 0.937-1.086; $p=0.8244$). The study weights are obtained based on the DerSimonian-Laird method. CI, confidence interval; DL, DerSimonian-Laird method; I^2 , I-squared index.

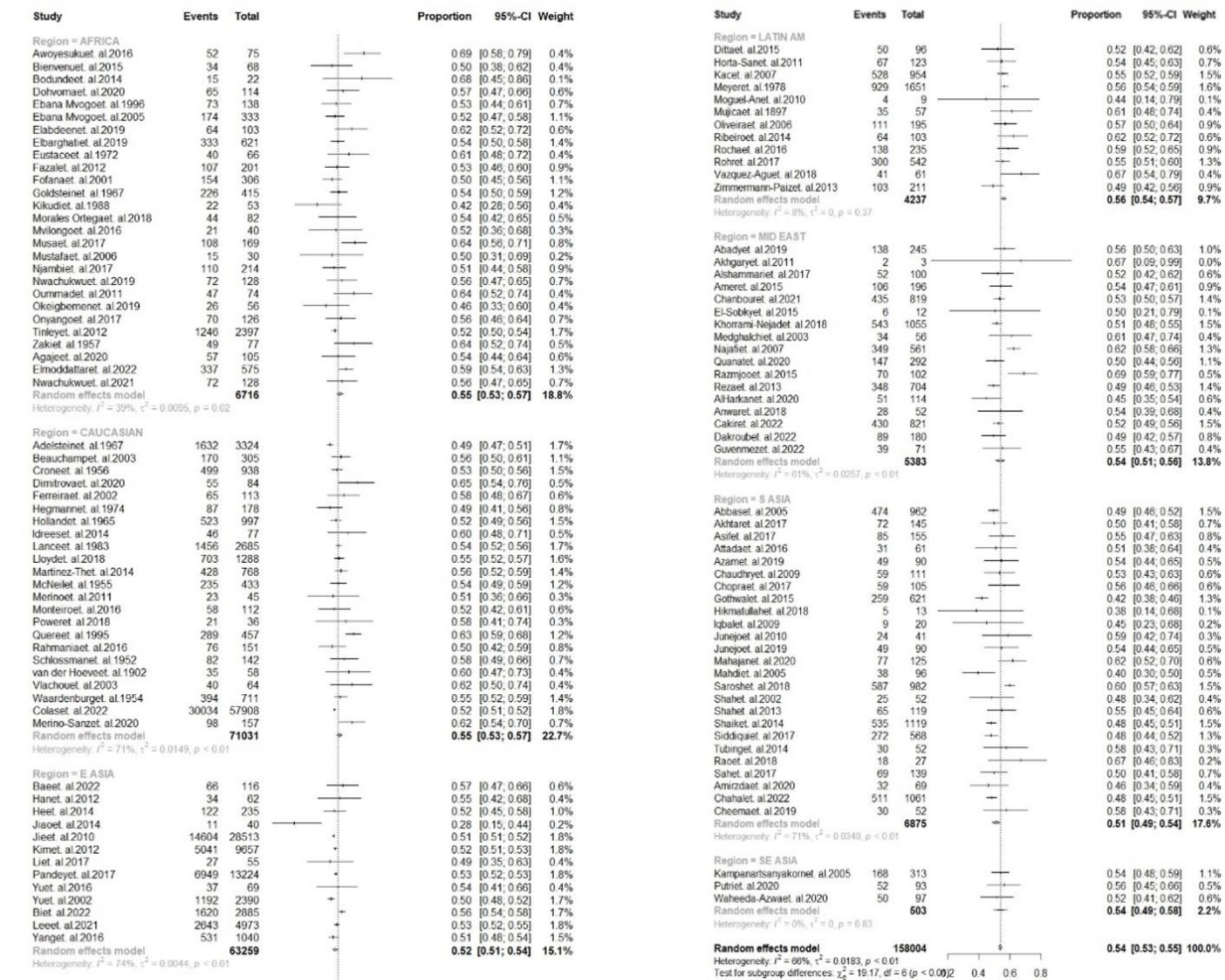


Figure S2. Forest plot for overall horizontal strabismus: clinic-based studies (n=121). Grouped by region/ethnicity (Africa, Caucasian, East Asia, Latin America, Middle East, South Asia, South-East Asia). Note the female bias, less pronounced in Asian countries. Globally, the random effects model gives a female proportion of 0.5375 (CI=0.5287; 0.5463, $p < 0.0001$), and a male proportion of 0.4625 (95% CI= 0.4537; 0.4713, $p < 0.0001$).

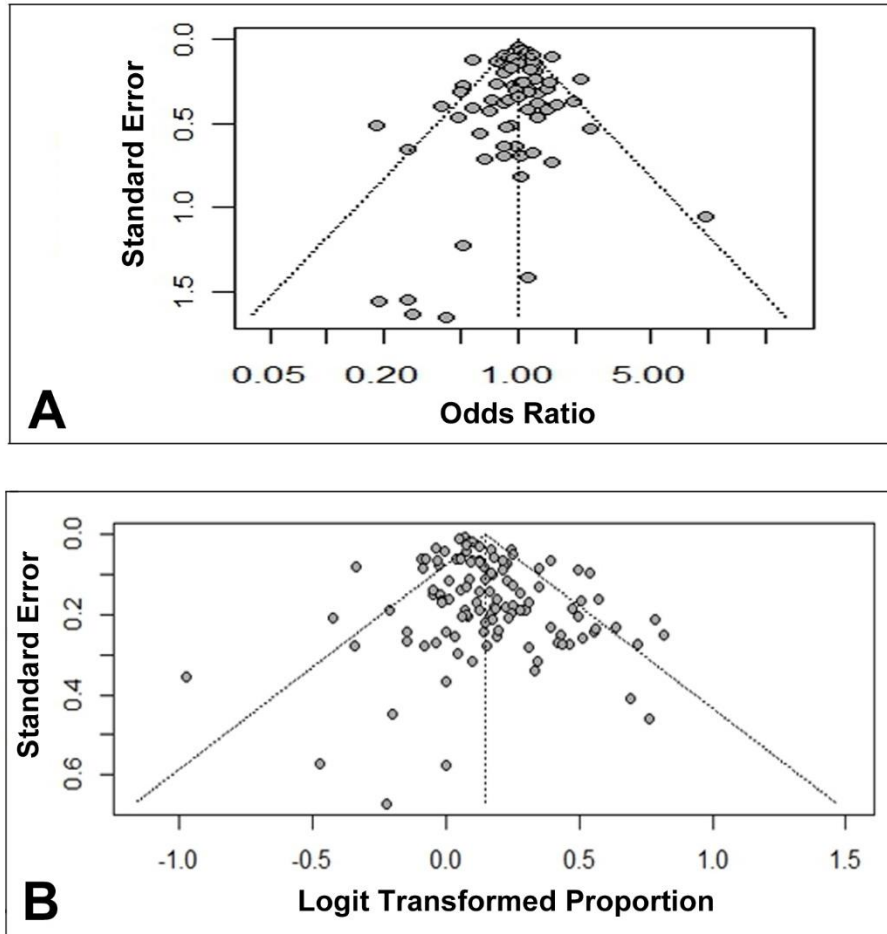


Figure S3A-B. Funnel plots. **A.** The funnel plot of 72 population-based studies on horizontal strabismus shows no evidence for asymmetry (rank correlation test, $z = -1.40$, $p=0.1615$), which means that publication bias is unlikely. **B.** The funnel plot of 121 clinic-based studies on horizontal strabismus shows no evidence of asymmetry (rank correlation test, $z = 0.27$, $p=0.7863$; $p=0.7837$ with one outlier removed), meaning that publication bias is unlikely. Rank correlation test was performed according to Begg and Mazumdar, 1994, *Biometrics* 50, 1088-1101.

SUPPLEMENTAL TABLES

Supplemental Table S1. All references disclosing gender (in cohorts as well as the cases) for population-based studies on horizontal strabismus (n=73) are listed alphabetically by author - excluding studies focusing on ages 50+ years.

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Supplemental Table S2. All references disclosing gender for population-based studies on horizontal strabismus (n=141) are listed alphabetically by author, excluding studies focusing on ages 50+ years.

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