A Comparative Study between Dissociative Treatment and Binocular Interactive Treatment in Amblyopia

Thesis
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By

Suha Ahmed Amin Moustafa Hussein
M.B,B.C.h (2009) , M.Sc (2014) ,
Faculty of medicine - Ain Shams University

Under supervision of

Professor Dr. Hazem Hosny Nouh
Professor of Ophthalmology
Faculty of medicine – Ain Shams University

Professor Dr. Mohammad Ahmad Rashad
Professor of Ophthalmology
Faculty of medicine – Ain Shams University

Dr. Walid Mohamed Abd El-Raouf El-Zawahry
Lecturer of Ophthalmology
Faculty of medicine – Ain Shams University

Dr. Ahmad Taha Ismail
Lecturer of Ophthalmology
Faculty of medicine – Ain Shams University

Faculty of medicine
Ain Shams University
Cairo – Egypt
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STATISTICAL ANALYSIS PLAN

Using the SPSS (or the Minitab or Mega Stat) statistical software, the data will be examined using standard summary statistics which will include, where appropriate, 95% confidence intervals.

A one-way analysis of variance (ANOVA) will be performed on the visual acuity data to determine whether there appeared to be an effect of measurement time on visual acuity, and pairwise comparisons of mean will then be performed, examining the changes from baseline to 1 month, 3 months and 6 months after treatment start.

An improvement of $\geq 0.125$ LogMAR units will be considered clinically significant. In addition, the proportion of change will be calculated at 1 month, 3 months and 6 months follow up as follows (using the formula described by Stweart et al)

Proportion of change $= \frac{VA_{as} - VA_{ae}}{VA_{as} - VA_{fe}}$

Where $VA_{as}$ is the vision of amblyopic eye at baseline, $VA_{ae}$ is the vision of amblyopic eye at the end of the treatment (i.e. 6months) and $VA_{fe}$ is the vision of the non-amblyopic eye at the end of the treatment.

Also percentage of compliance with treatment in each group will be measured as a secondary outcome measure.