



THE OCULAR SURFACE RESEARCH INSTITUTE

**Pilot Study for Investigating the Effect of the  
Bruder Eye Hydrating Compress on Contact Lens  
Discomfort in Contact Lens Wearers**

**Statistical Plan**

**PRINCIPAL INVESTIGATOR:**

**JASON J. NICHOLS, OD MPH PhD**

**CO-INVESTIGATOR:**

**ANNA F. ABLAMOWICZ, OD**

**UNIVERSITY OF ALABAMA AT BIRMINGHAM**

**SCHOOL OF OPTOMETRY**

**1716 UNIVERSITY BLVD**

**BIRMINGHAM, AL 35294-0010**

## Statistical Analyses

Descriptive statistics will be performed and differences in groups at baseline analyzed using the Kruskal-Wallis test and the Chi-square test for categorical variables. Statistical testing of the primary endpoint will be performed using a generalized linear model with treatment and baseline as main effects while controlling for difference in comfortable wear time at baseline and daily hours of contact lens wear time. A one-way analysis of variance (ANOVA) will be used to compare the mean hours of comfortable contact lens wear time at 1 month. Post-hoc comparisons will be performed using the Tukey test. All of the statistical analyses will be completed in the Statistical Package for Social Science (SPSS) 22 and GraphPad Prism 7.02;  $p < 0.05$  will be considered statistically significant.