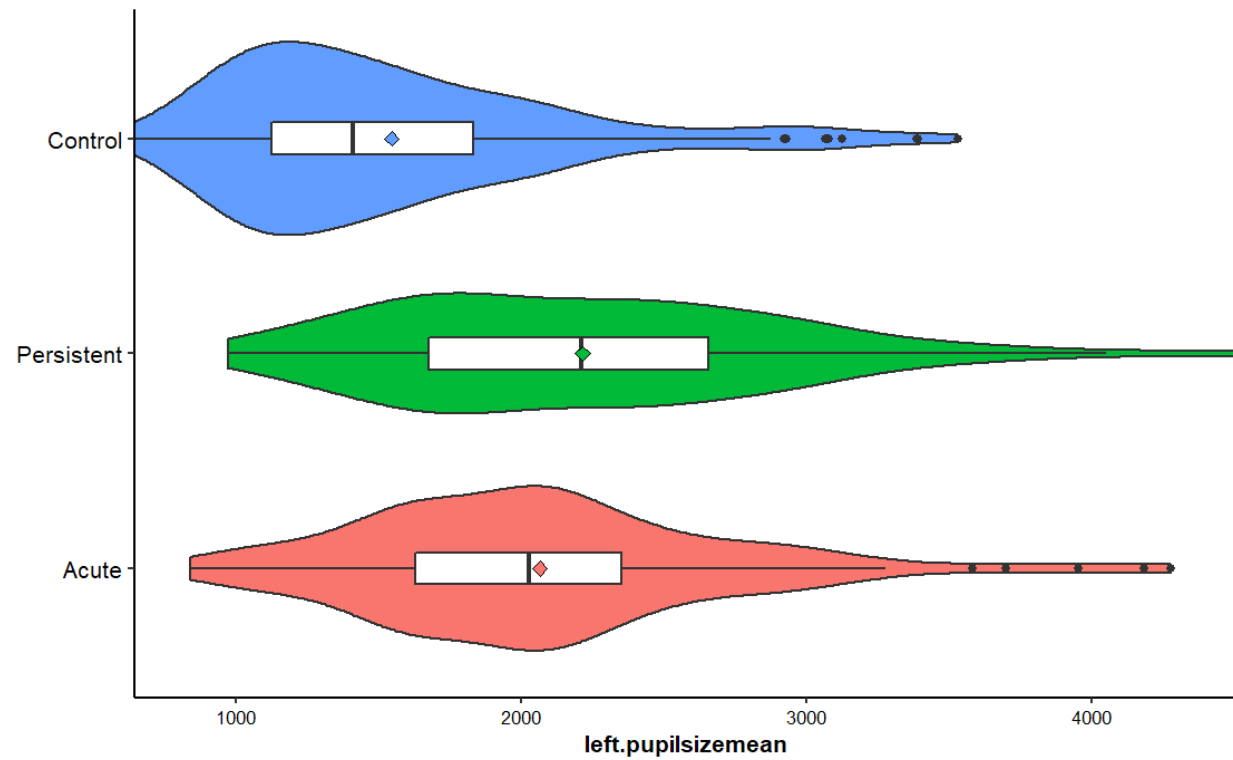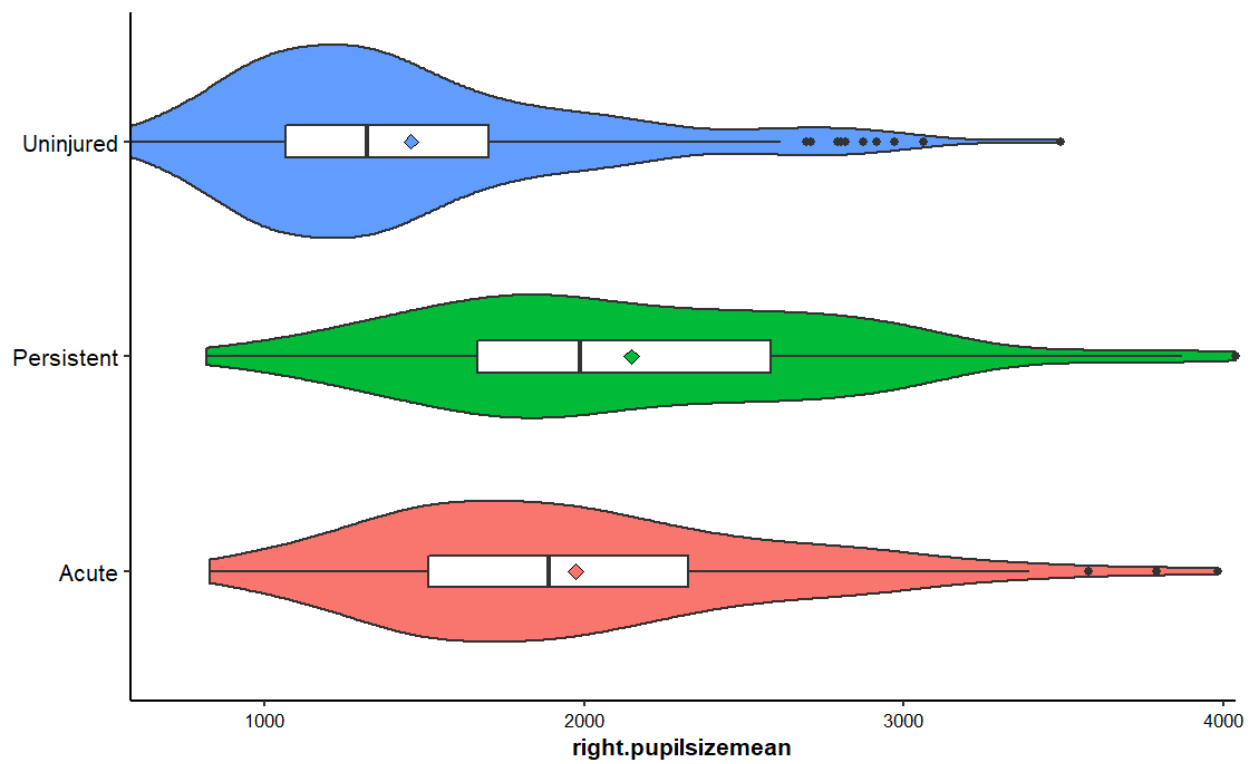**Appendix Figure A1.** Distribution of left.pupilsizemean for acute cases, persistent cases, and uninjured. Mean values for each group are indicated by the diamond point.

Appendix Figure A2. Distribution of right.pupilsizemean for acute cases, persistent cases, and uninjured. Mean values for each group are indicated by the diamond point.
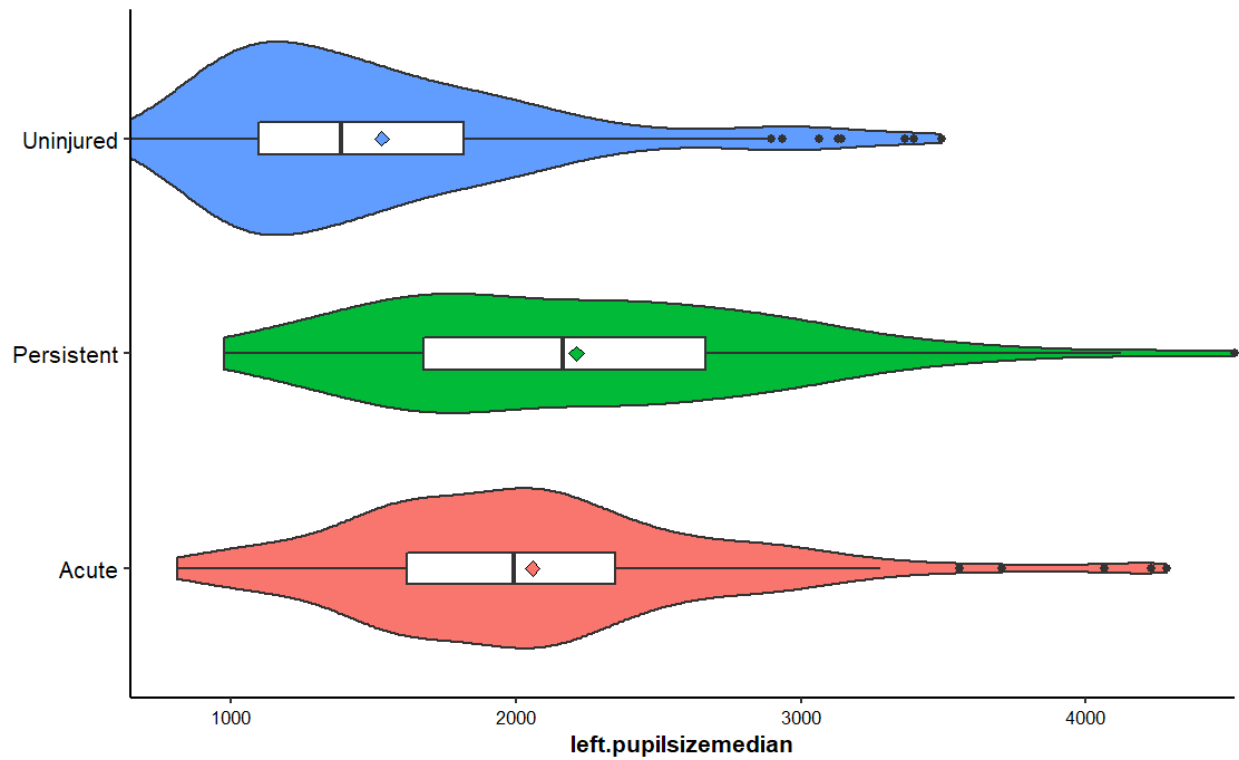
Appendix Figure A3. Distribution of left.pupilsizemedian for acute cases, persistent cases, and uninjured. Mean values for each group are indicated by the diamond point.
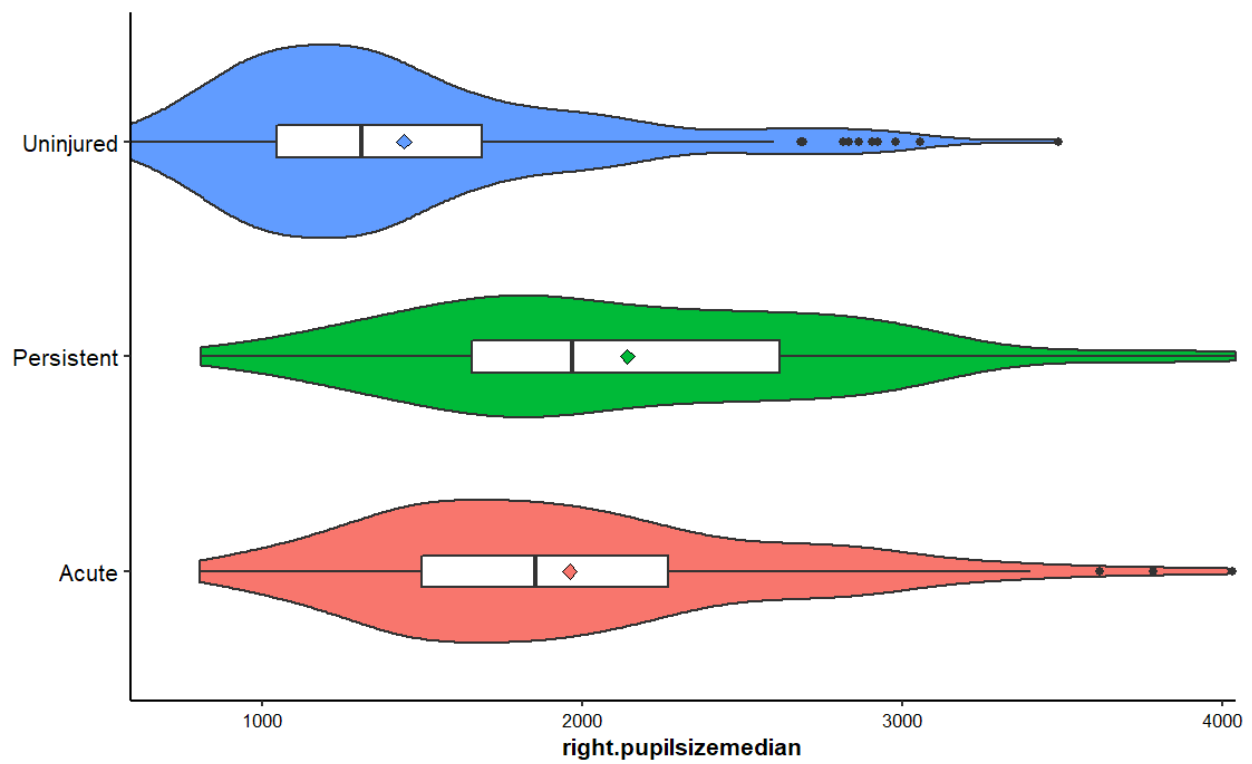
Appendix Figure A4. Distribution of right.pupilsizemedian for acute cases, persistent cases, and uninjured. Mean values for each group are indicated by the diamond point.
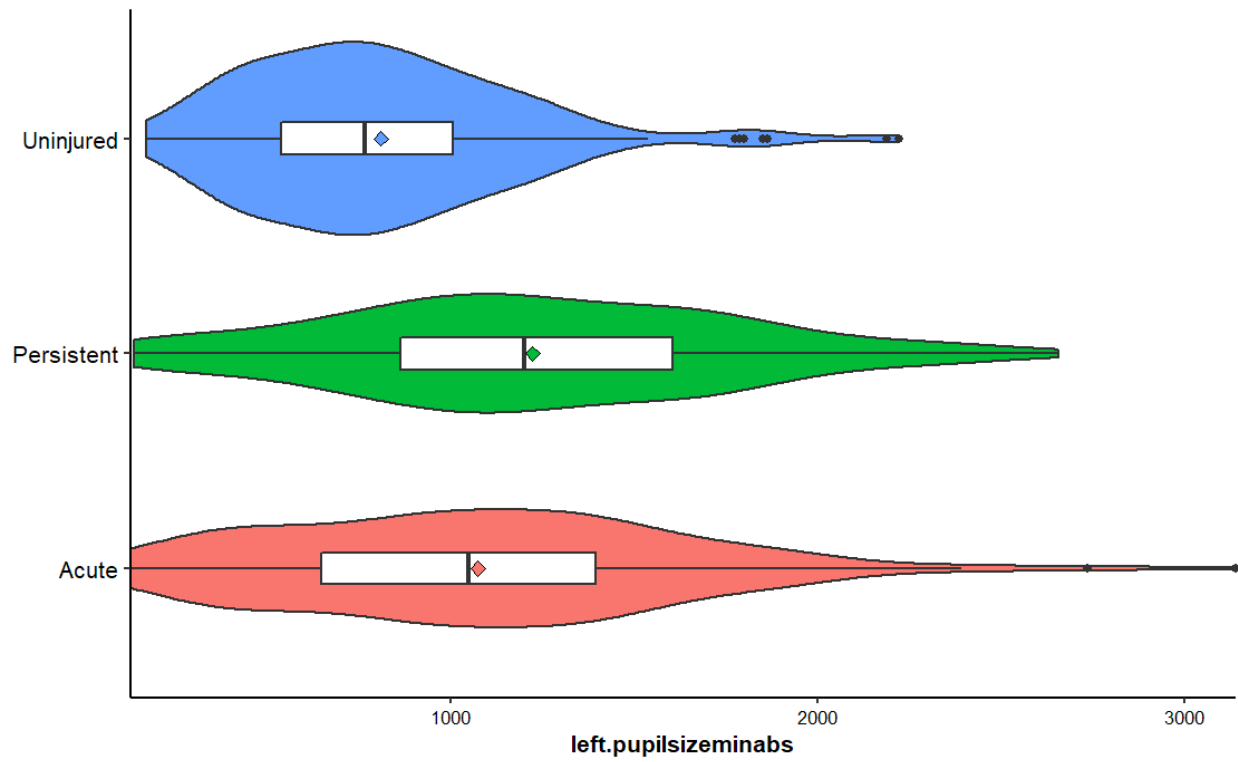
Appendix Figure A5. Distribution of left.pupilsizeminabs for acute cases, persistent cases, and uninjured. Mean values for each group are indicated by the diamond point.
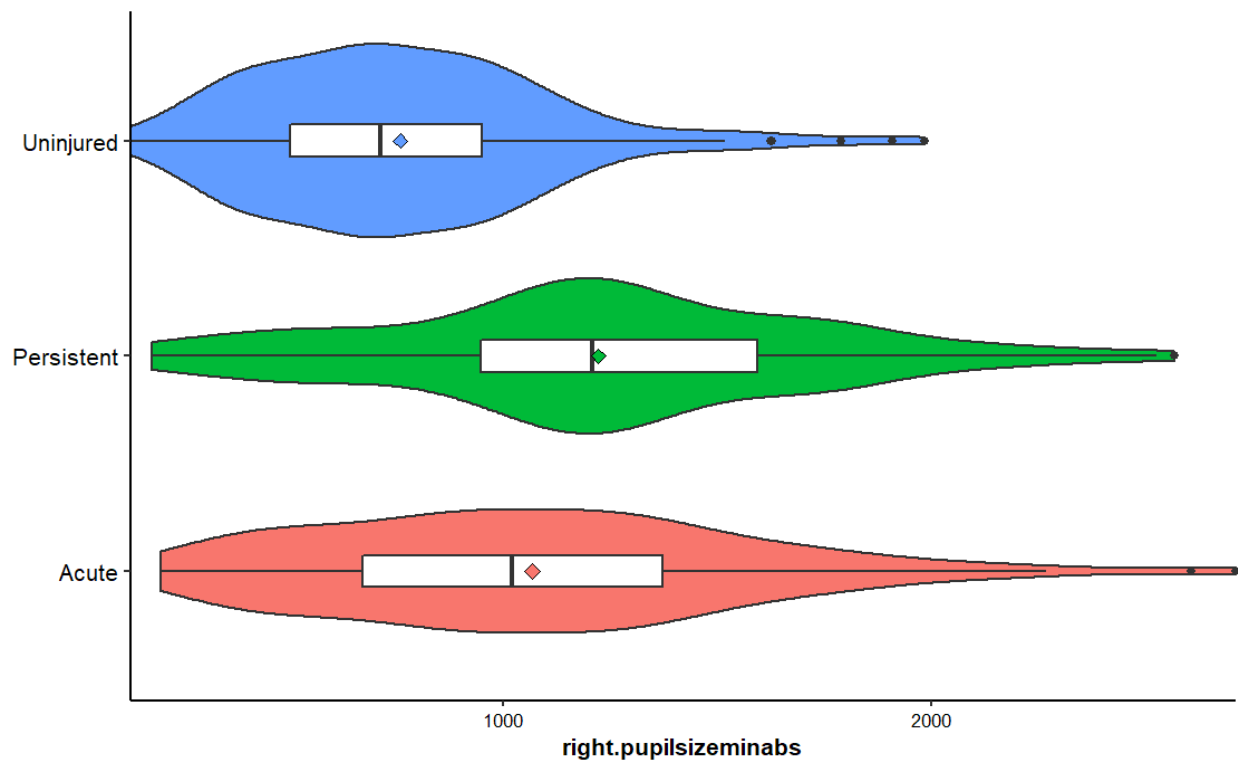
Appendix Figure A6. Distribution of right.pupilsizeminabs for acute cases, persistent cases, and uninjured. Mean values for each group are indicated by the diamond point.
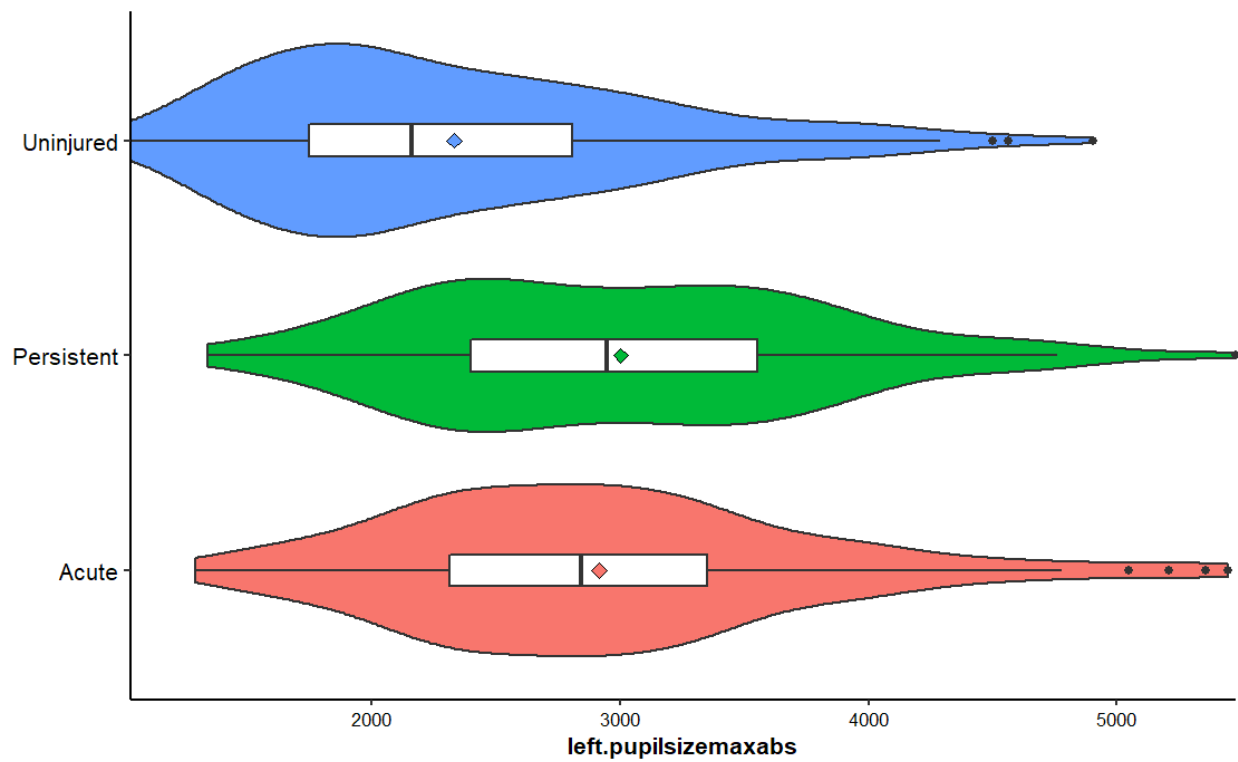
Appendix Figure A7. Distribution of left.pupilsizemaxabs for acute cases, persistent cases, and uninjured. Mean values for each group are indicated by the diamond point.
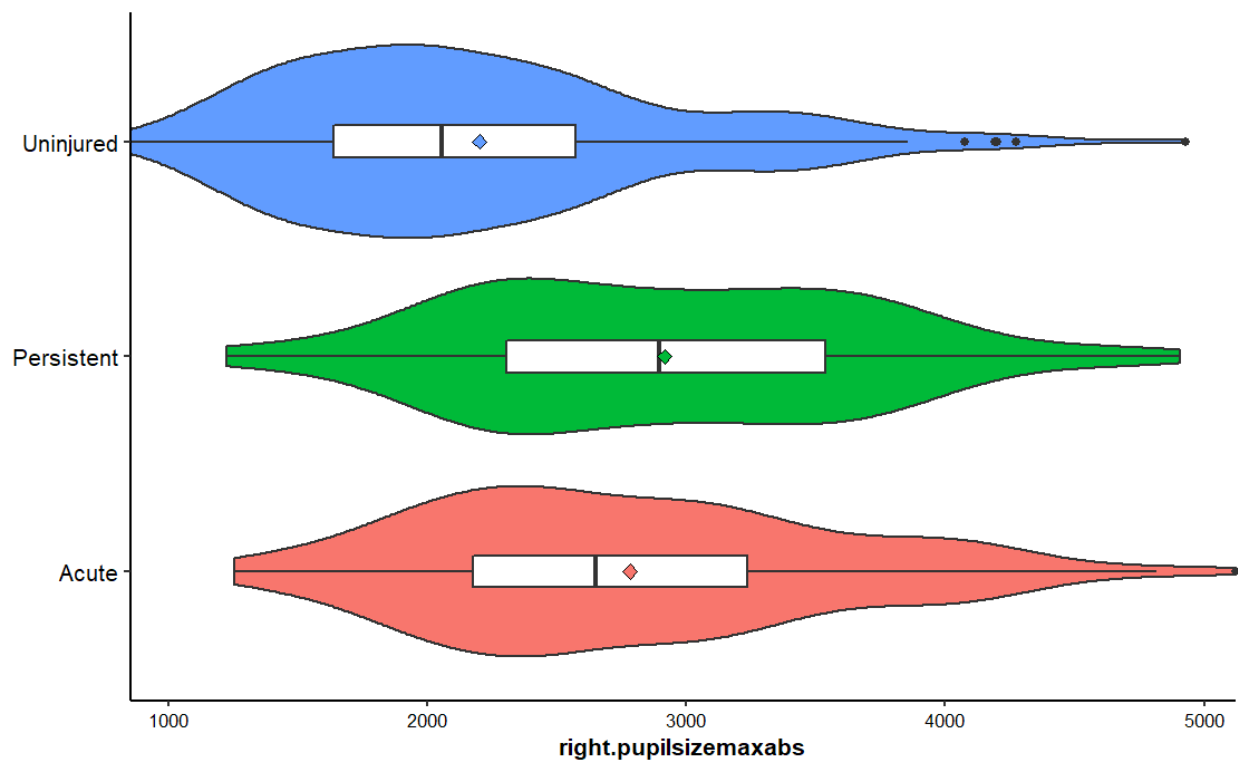
Appendix Figure A8. Distribution of right.pupilsizemaxabs for acute cases, persistent cases, and uninjured. Mean values for each group are indicated by the diamond point.
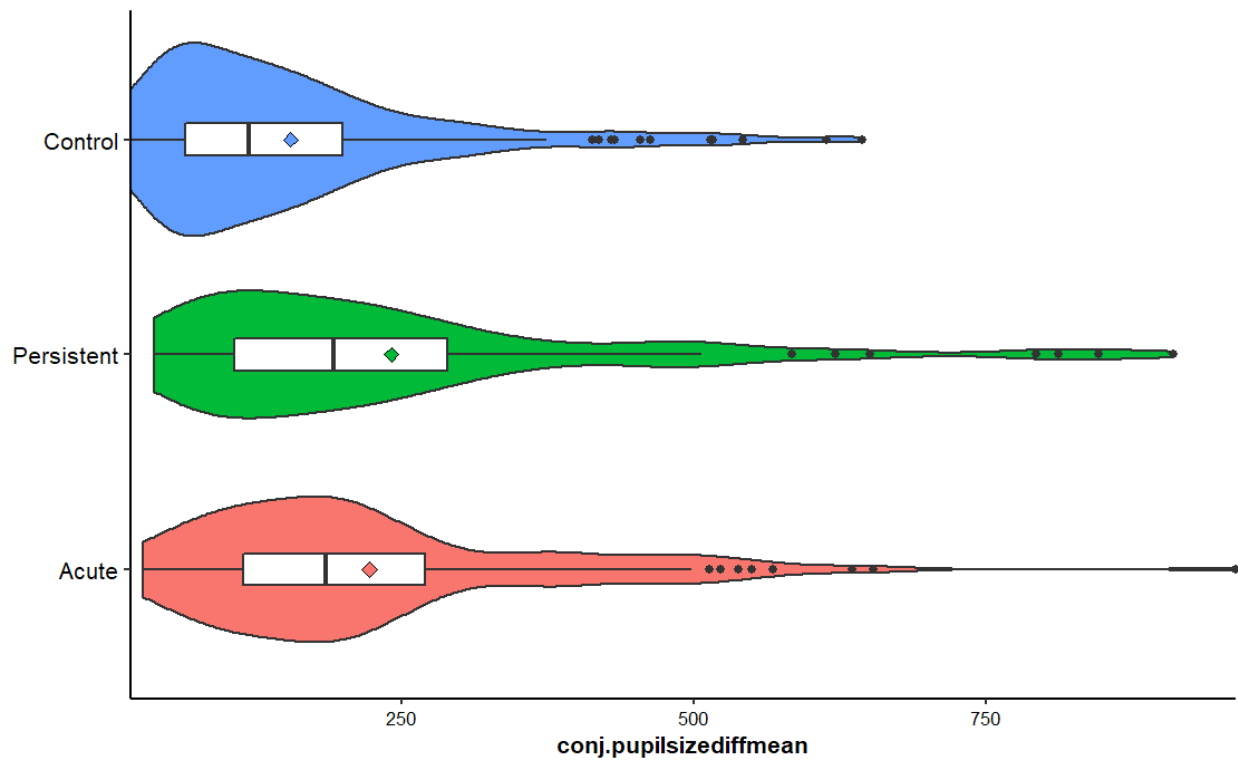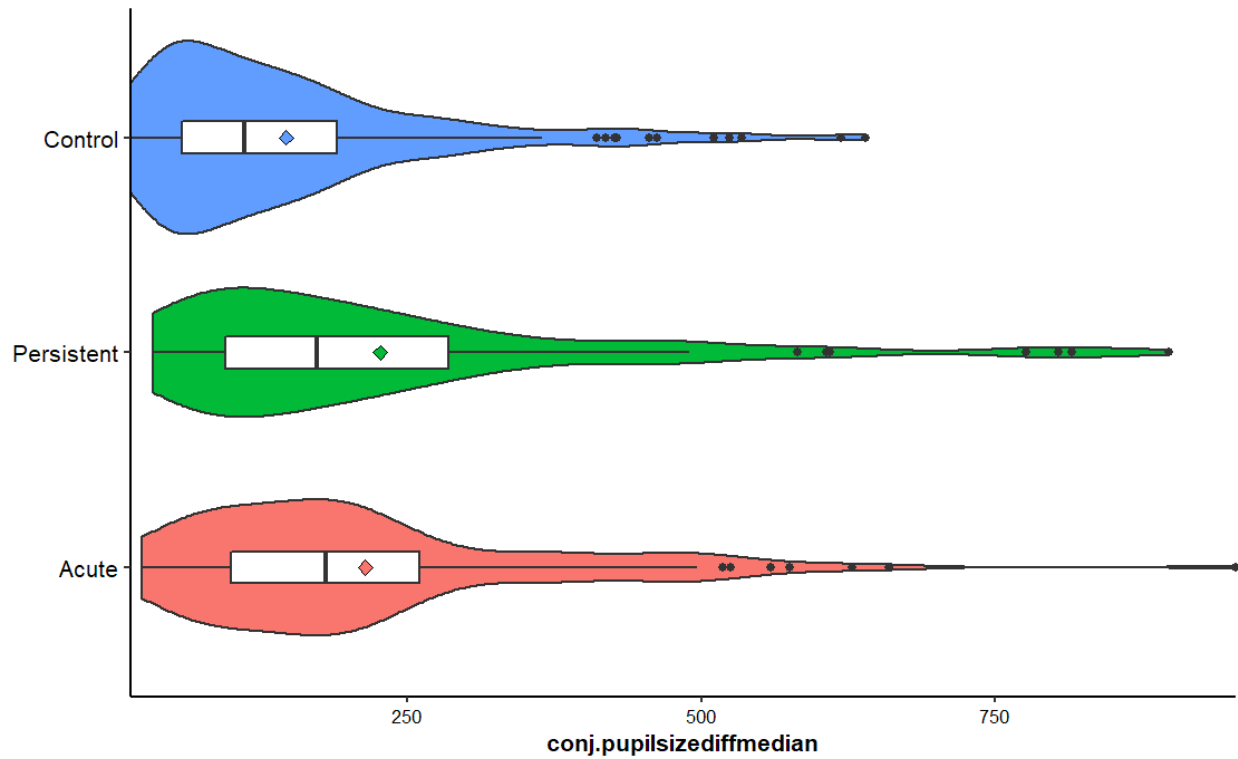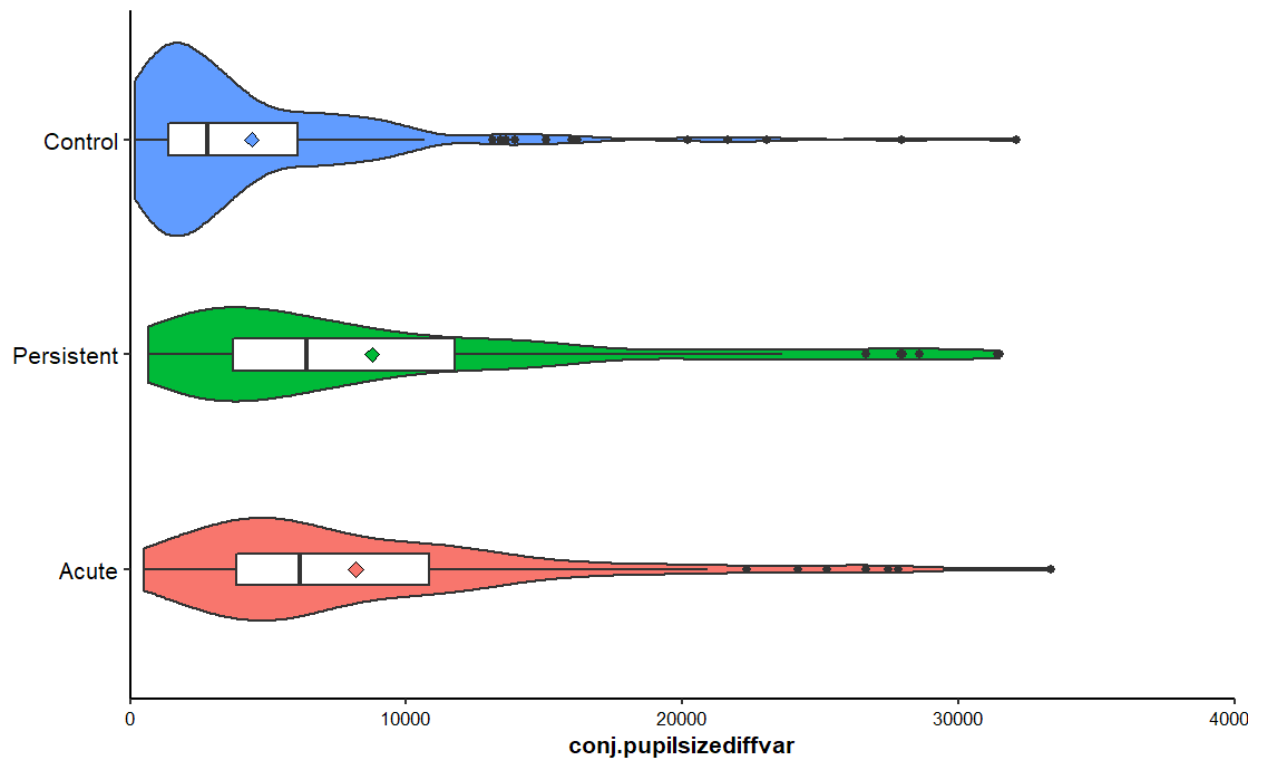
Appendix Figure A9. Distribution of conj.pupilsizediffmean for acute cases, persistent cases, and uninjured. Mean values for each group are indicated by the diamond point.

Appendix Figure A10. Distribution of conj.pupilsizediffmedian for acute cases, persistent cases, and uninjured. Mean values for each group are indicated by the diamond point.
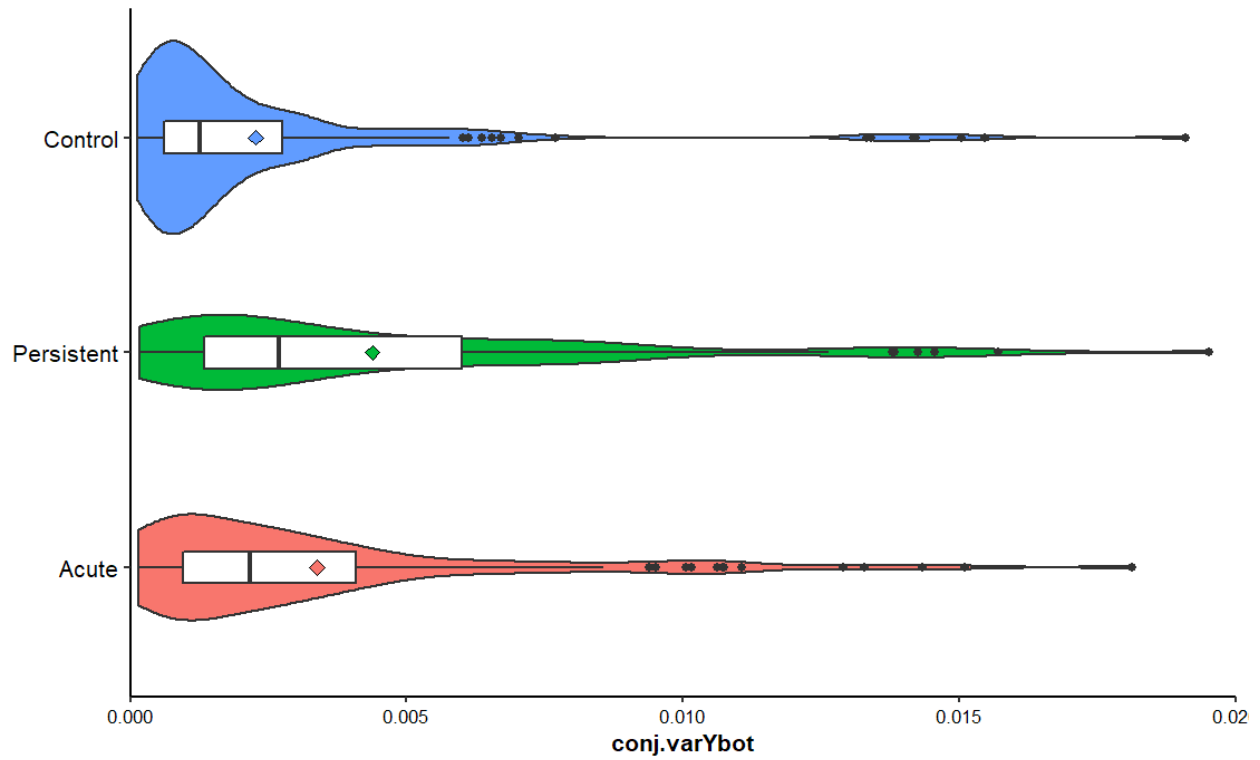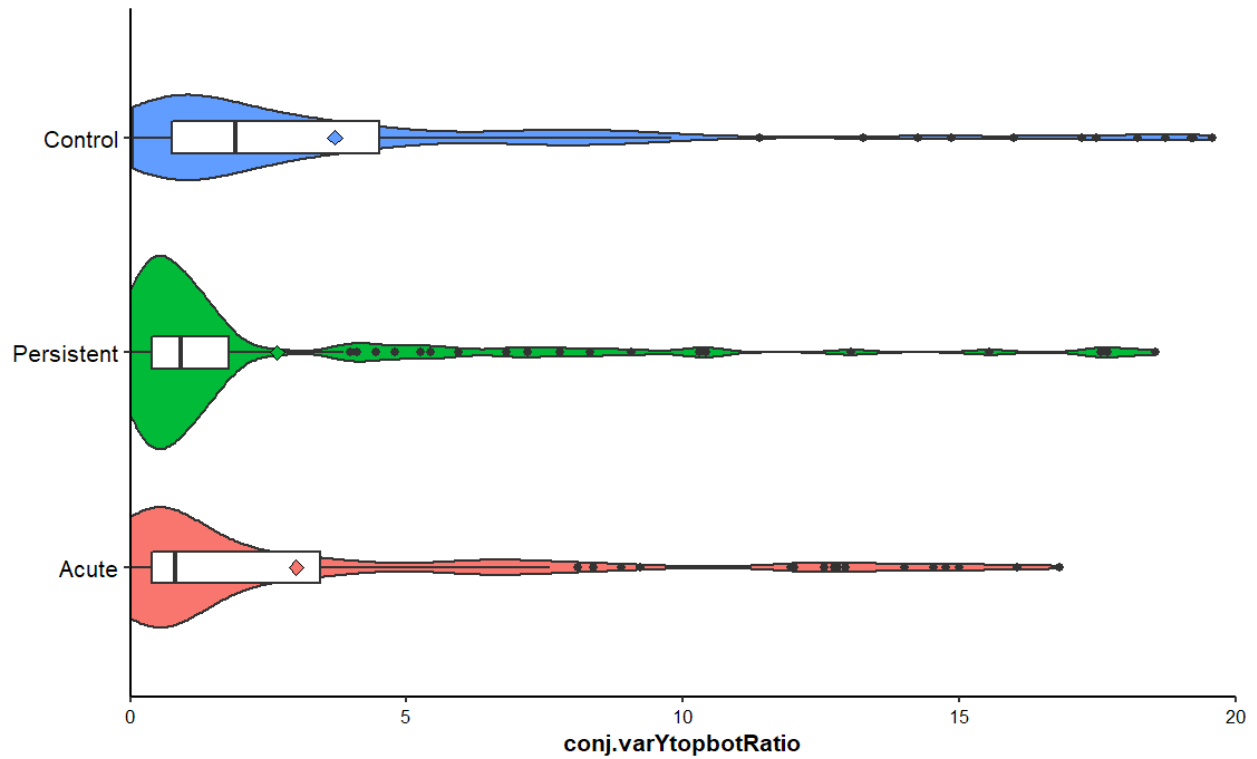
Appendix Figure A11. Distribution of conj.pupilsizediffvar for acute cases, persistent cases, and uninjured. Mean values for each group are indicated by the diamond point. Eight outliers were removed for this graph.
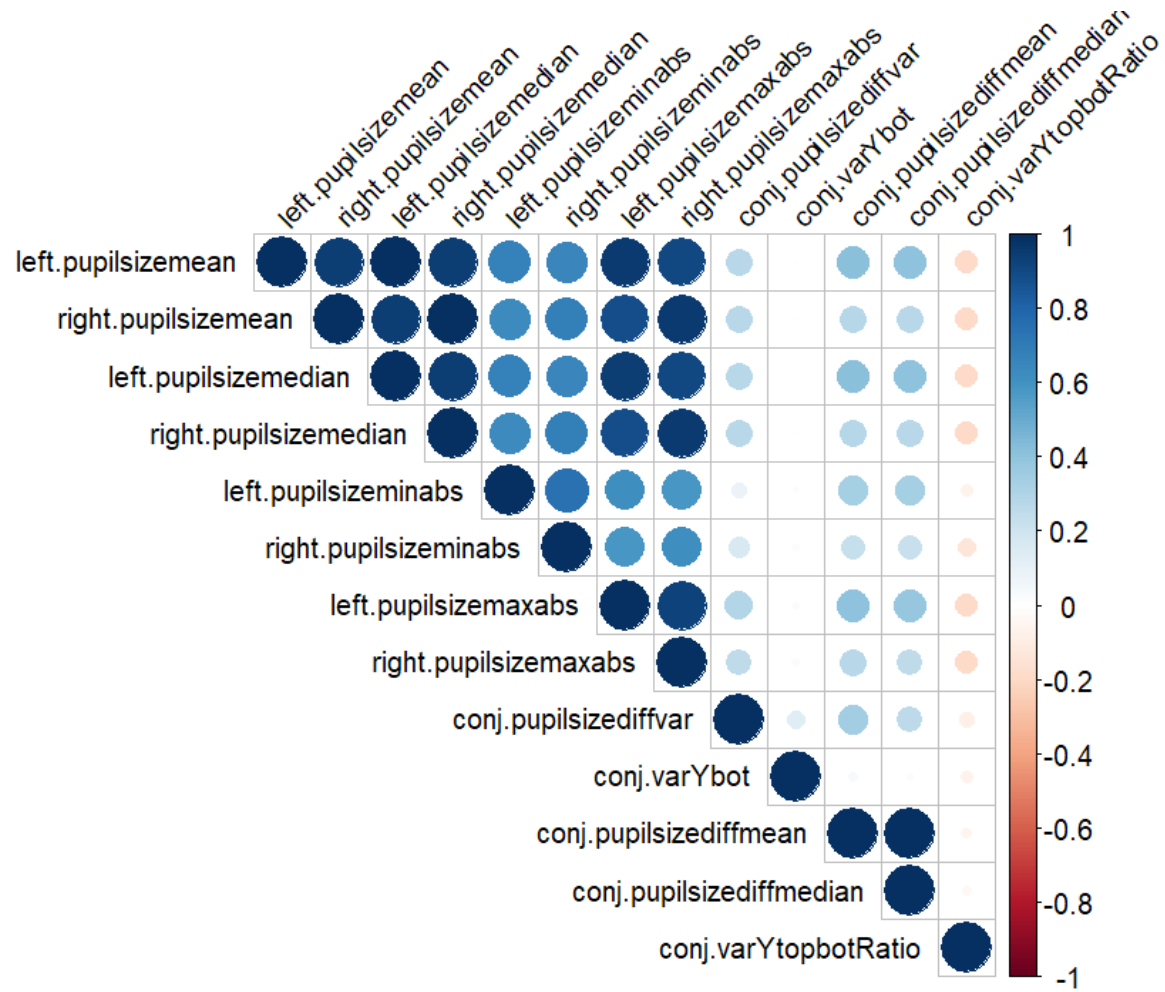
Appendix Figure A12. Distribution of conj.varYbot for acute cases, persistent cases, and uninjured. Mean values for each group are indicated by the diamond point Twenty four outliers were removed for this graph.

Appendix Figure A13. Distribution of conj.varYtopbotRatio for acute cases, persistent cases, and uninjured. Mean values for each group are indicated by the diamond point. Twenty nine outliers were removed for this graph.

Appendix Figure A14. Similarity matrix calculated with Pearson's R for the 13 eye tracking metrics.

Appendix Figure A15. Scree plot showing the proportion of variance explained for the eye tracking metrics for each principal component.