Supplemental Figure 1: **Sensitivity of OCT calculated by two methods.** Sensitivity of OCT in detecting prior optic neuritis by using a thickness ≤1<sup>st</sup> percentile of age-matched controls in the Zeiss database (blue bars). Sensitivity of OCT in detecting prior optic neuritis by using a 99<sup>th</sup> percentile intereye difference threshold of ≥9 µm in RNFL, ≥6 µm in GCIPL, or either thicknesses as a threshold (red bars).

Supplemental Figure 2: **Comparison of intereye RNFL and GCIPL differences.** The 99<sup>th</sup> intereye threshold is shown for both RNFL (9µm) and GCIPL (6µm). All eyes that met the 99<sup>th</sup> percentile intereye threshold for RNFL thinning also met the 99<sup>th</sup> percentile intereye threshold for GCIPL, while 12 eyes met the GCIPL 99<sup>th</sup> intereye threshold that did not meet the RNFL threshold.
Average RNFL

Average GCIPL

Average RNFL or GCIPL

≤ first percentile of age-matched control

Inter-eye difference threshold

Sensitivity (%)
GCIPL intereye difference (microns)

RNFL intereye difference (microns)