**Supplemental information**

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| **Supplemental Table 1: Comparisons of the MT and ONL thickness between neurotypical adults (NT) and autistic adults (ASD) on region and sector level.** | | | | | | | |
|  |  | **Arithmetic mean (SD)** | | **Results from the regression models** | | | |
| **Layer** | **Region** | **NT (n=31)** | **ASD (n=34)** | **𝛽group** | **SE** | ***p* value** | ***d*** |
| MT | Fovea | 284.08 (20.70) | 276.18 (22.62) | −8.84 | 5.51 | .114 (ns) | −0.41 |
| Parafovea | 1413.45 (58.58) | 1370.79 (56.11) | −46.14 | 14.24 | **.002 (\*)** | −0.83 |
| Perifovea | 1233.29 (50.11) | 1203.32 (49.51) | −34.22 | 12.67 | **.009 (\*)** | −0.69 |
| ONL | Fovea | 101.08 (9.47) | 95.31 (10.08) | −6.68 | 2.53 | **.010 (\*)** | −0.68 |
| Parafovea | 318.81 (31.37) | 294.57 (32.14) | −26.21 | 8.27 | **.002 (\*)** | −0.81 |
| Perifovea | 258.71 (26.7) | 239.78 (24.01) | −20.15 | 6.88 | **.005 (\*)** | −0.75 |
| **Layer** | **Sector** | **NT (N=31)** | **ASD (N=34)** | **𝛽group** | **SE** | ***p* value** | ***d*** |
| MT | C0 | 284.08 (20.70) | 276.18 (22.62) | −8.84 | 5.51 | .114 (ns) | −0.41 |
| I1 | 354.52 (14.88) | 344.09 (13.33) | −11.15 | 3.61 | **.003 (\*)** | −0.79 |
| I2 | 299.81 (11.14) | 292.41 (11.96) | −8.28 | 3.02 | **.008 (\*)** | −0.70 |
| N1 | 357.64 (15.59) | 346.38 (15.94) | −12.13 | 3.85 | **.003 (\*)** | −0.81 |
| N2 | 330.13 (15.95) | 319.88 (14.73) | −11.40 | 3.96 | **.005 (\*)** | −0.74 |
| S1 | 357.23 (15.32) | 347.03 (14.19) | −10.84 | 3.73 | **.005 (\*)** | −0.75 |
| S2 | 309.14 (13.10) | 304.07 (13.43) | −6.21 | 3.29 | .064 (ns) | −0.48 |
| T1 | 344.06 (14.43) | 333.29 (13.93) | −11.98 | 3.44 | **<.001 (\*)** | −0.89 |
| T2 | 294.21 (11.91) | 286.96 (13.19) | −8.74 | 3.11 | **.007 (\*)** | −0.72 |
| ONL | C0 | 101.08 (9.47) | 95.31 (10.08) | −6.68 | 2.53 | **.010 (\*)** | −0.68 |
| I1 | 76.36 (7.02) | 70.24 (9.26) | −5.94 | 2.16 | **.008 (\*)** | −0.70 |
| I2 | 59.47 (5.82) | 54.91 (5.55) | −4.82 | 1.55 | **.003 (\*)** | −0.79 |
| N1 | 84.61 (8.62) | 78.81 (8.74) | −6.45 | 2.25 | **.006 (\*)** | −0.73 |
| N2 | 66.27 (7.53) | 61.31 (6.81) | −5.47 | 1.93 | **.006 (\*)** | −0.73 |
| S1 | 78.39 (9.23) | 72.85 (11.60) | −5.29 | 2.74 | .058 (ns) | −0.49 |
| S2 | 68.45 (7.46) | 64.28 (7.05) | −4.47 | 1.94 | **.025 (\*)** | −0.59 |
| T1 | 79.45 (8.15) | 72.68 (8.31) | −7.18 | 2.14 | **.001 (\*)** | −0.86 |
| T2 | 64.52 (6.70) | 59.28 (6.27) | −5.35 | 1.75 | **.003 (\*)** | −0.79 |
| The arithmetic means (SD) and the results of the robust regression models are depicted for the three foveal regions and the single sectors of the ETDRS grid (Chew 1996). Group coefficients (𝛽group) from the robust regression models (𝛽0= male NT), standard errors (SE), *p* values with adjusted significance level in parentheses (\*/ns) and effects sizes (*d*) are depicted. Benjamini-Hochberg procedure (Benjamini and Hochberg 1995) was applied for the region and sector analyses separately, in order to control the false discovery rate. The number of tests per analysis (region or sector level) was considered for the correction. Significant results are highlighted in bold.  Abbreviations: ASD = autism spectrum disorder; 𝛽group = coefficient for the group parameter from the regression model; C0 = fovea; *d* = Cohen’s *d*; I = inferior, MT = macular thickness; N = nasal; n = Number NT= neurotypical adults; ns = not significant; ONL = outer nuclear layer; S = superior; SE = standard error of the coefficient; T = temporal; \* = significant. | | | | | | | |

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