

**Supplemental Table 1. Tumor size measurement and verification of data repeatability.**

| Tumor | Tumor size measurement (mm <sup>2</sup> ) * |                         |                         |                         | Verification of tumor size measurement (mm <sup>2</sup> ) ** |                         |                         |                         |
|-------|---|-------------------------|-------------------------|-------------------------|--|-------------------------|-------------------------|-------------------------|
|       | SS-OCTA                                     |                         | SD-OCTA                 |                         | SS-OCTA  |                         | SD-OCTA                 |                         |
|       | 3 x 3 mm <sup>2</sup> †                     | 6 x 6 mm <sup>2</sup> ‡ | 3 x 3 mm <sup>2</sup> ‡ | 6 x 6 mm <sup>2</sup> ‡ | 3 x 3 mm <sup>2</sup> †                                      | 6 x 6 mm <sup>2</sup> ‡ | 3 x 3 mm <sup>2</sup> ‡ | 6 x 6 mm <sup>2</sup> ‡ |
| 1     | ND  | 7.513                   | ND                      | 6.718                   | ND   | 7.537                   | ND                      | 6.728                   |
| 2     | 0.041                                       | ND                      | 0.040                   | ND                      | 0.040  | ND                      | 0.038                   | ND                      |
| 3     | ND  | 8.560                   | ND                      | 7.975                   | ND   | 8.327                   | ND                      | 8.049                   |
| 4     | 0.087                                       | 0.091                   | 0.086                   | 0.104                   | 0.087  | 0.092                   | 0.074                   | 0.103                   |
| 5     | 0.012                                       | 0.012                   | 0.009                   | 0.013                   | 0.013  | 0.015                   | 0.010                   | 0.011                   |
| 6     | 0.104                                       | 0.118                   | 0.092                   | 0.106                   | 0.098  | 0.146                   | 0.103                   | 0.128                   |
| 7     | 0.037                                       | 0.046                   | 0.039                   | 0.049                   | 0.038  | 0.051                   | 0.043                   | 0.065                   |
| 8     | 0.152                                       | 0.145                   | 0.158                   | 0.143                   | 0.152  | 0.143                   | 0.150                   | 0.138                   |
| 9     | 0.029                                       | 0.029                   | 0.131                   | 0.018                   | 0.031  | 0.031                   | 0.021                   | 0.017                   |
| 10    | 0.024                                       | 0.027                   | 0.028                   | 0.027                   | 0.027  | 0.027                   | 0.025                   | 0.025                   |
| 11    | 0.251                                       | 0.248                   | 0.241                   | ND                      | 0.251  | 0.250                   | 0.245                   | ND                      |
| 12    | ND  | 4.423                   | ND                      | 3.830                   | ND   | 4.604                   | ND                      | 4.104                   |
| 13    | 0.121                                       | 0.100                   | 0.125                   | 0.138                   | 0.128  | 0.114                   | 0.127                   | 0.120                   |
| 14    | 0.267                                       | 0.303                   | 0.273                   | 0.273                   | 0.277  | 0.308                   | 0.251                   | 0.253                   |
| 15    | 1.130                                       | ND                      | 1.027                   | ND                      | 1.126  | ND                      | 1.031                   | ND                      |
| 16    | ND  | 2.150                   | ND                      | 2.122                   | ND   | 2.151                   | ND                      | 2.073                   |
| 17    | ND  | 4.214                   | ND                      | 3.892                   | ND   | 4.285                   | ND                      | 4.091                   |
| 18    | ND  | 0.362                   | ND                      | 0.364                   | ND   | 0.374                   | ND                      | 0.383                   |
| 19    | ND  | 0.619                   | ND                      | 0.492                   | ND   | 0.613                   | ND                      | 0.518                   |
| 20    | 0.051                                       | 0.053                   | 0.053                   | 0.056                   | 0.052  | 0.052                   | 0.057                   | 0.067                   |
| 21    | 0.013                                       | 0.014                   | 0.010                   | 0.013                   | 0.012  | 0.015                   | 0.013                   | 0.015                   |
| 22    | 0.691                                       | 0.688                   | ND                      | 0.633                   | 0.679  | 0.700                   | ND                      | 0.668                   |
| 23    | ND  | 0.223                   | ND                      | 0.222                   | ND   | 0.240                   | ND                      | 0.253                   |
| 24    | 0.102                                       | 0.101                   | ND                      | ND                      | 0.105  | 0.103                   | ND                      | ND                      |
| 25    | 0.231                                       | 0.226                   | ND                      | ND                      | 0.228  | 0.229                   | ND                      | ND                      |
| 26    | 0.110                                       | 0.101                   | 0.108                   | 0.094                   | 0.113  | 0.108                   | 0.110                   | 0.076                   |
| 27    | 1.150                                       | 1.194                   | 1.091                   | 1.141                   | 1.099  | 1.218                   | 1.026                   | 1.101                   |
| 28    | ND  | 0.289                   | ND                      | 0.269                   | ND   | 0.281                   | ND                      | 0.251                   |
| 29    | 0.126                                       | 0.116                   | 0.114                   | 0.077                   | 0.122  | 0.120                   | 0.108                   | 0.101                   |
| 30    | ND  | 0.016                   | ND                      | 0.015                   | ND   | 0.017                   | ND                      | 0.013                   |
| 31    | 0.010                                       | 0.015                   | 0.011                   | 0.013                   | 0.010  | 0.015                   | 0.012                   | 0.013                   |
| 32    | 1.386                                       | 1.382                   | 1.289                   | 1.298                   | 1.393  | 1.388                   | 1.275                   | 1.325                   |
| 33    | ND  | 5.010                   | ND                      | 4.977                   | ND   | 5.532                   | ND                      | 5.165                   |
| 34    | 0.980                                       | 0.988                   | 0.876                   | 0.932                   | 0.977  | 1.030                   | 0.878                   | 0.951                   |
| 35    | 0.166                                       | 0.179                   | 0.157                   | 0.154                   | 0.163  | 0.182                   | 0.162                   | 0.145                   |
| 36    | 0.140                                       | 0.132                   | 0.119                   | 0.135                   | 0.137  | 0.138                   | 0.126                   | 0.139                   |
| 37    | 0.732                                       | 0.691                   | ND                      | ND                      | 0.829  | 0.678                   | ND                      | ND                      |
| 38    | 0.059                                       | 0.065                   | 0.058                   | 0.059                   | 0.059  | 0.066                   | 0.059                   | 0.088                   |
| 39    | 0.099                                       | 0.098                   | 0.098                   | 0.097                   | 0.111  | 0.111                   | 0.106                   | 0.110                   |
| 40    | 0.680                                       | 0.644                   | 0.639                   | 0.653                   | 0.684  | 0.649                   | 0.631                   | 0.644                   |
| 41    | ND  | 3.757                   | ND                      | 3.524                   | ND   | 3.911                   | ND                      | 3.397                   |
| 42    | 1.241                                       | 1.146                   | 1.197                   | 1.214                   | 1.305  | 1.314                   | 1.274                   | 1.300                   |
| 43 *  | ND  | 3.066                   | ND                      | ND                      | ND   | 3.140                   | ND                      | ND                      |
| 44 *  | ND  | 2.796                   | ND                      | ND                      | ND   | 2.813                   | ND                      | ND                      |
| 45 *  | 0.263                                       | ND                      | ND                      | ND                      | 0.296  | ND                      | ND                      | ND                      |
| 46 *  | ND  | 5.673                   | ND                      | ND                      | ND   | 5.405                   | ND                      | ND                      |
| 47 *  | ND  | 10.427                  | ND                      | ND                      | ND   | 10.656                  | ND                      | ND                      |
| 48 *  | ND  | 8.910                   | ND                      | ND                      | ND   | 8.694                   | ND                      | ND                      |

\*: consensus outlined tumor area of the graders MR, AG, and JSL

\*\*.: outlined tumor area of the grader SN

SS-OCTA: swept-source optical coherence tomography angiography

SD-OCTA: spectral domain optical coherence tomography angiography

ND: not detected

†: intraclass correlation coefficient 0.998,  $P < 0.0001$

‡: intraclass correlation coefficient 0.997,  $P < 0.0001$

‡: intraclass correlation coefficient 0.999,  $P < 0.0001$

‡: intraclass correlation coefficient 0.999,  $P < 0.0001$

\*: not included in the comparison of tumor size measurements with different OCTA devices and scans sizes (Figure 4), since only one image was available