Evaluation of eye movements and visual performance in patients with cataract

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**Supplementary Table S2.** Visual performance and eye movement parameters of the age-matched controls

| Variables                              | Baseline (mean ± SD) | Follow-up (mean ± SD) | $P_1$  | $P_2$  | $P_3$  |
|----------------------------------------|----------------------|------------------------|--------|--------|--------|
| **Visual search task**                 |                      |                        |        |        |        |
| Percentage of correctly identified items (%) | 83.33 ± 18.54       | 85.71 ± 15.16          | 0.705  | 0.127  | 0.997  |
| Average search time (s)                | 1.15 ± 0.56         | 0.95 ± 0.44            | 0.131  | < 0.001| 0.020  |
| Mean Fixation Duration (s)            | 0.33 ± 0.18         | 0.32 ± 0.20            | 0.396  | 0.011  | 0.009  |
| Fixation Count (n)                    | 6.80 ± 2.07         | 7.28 ± 3.07            | 0.264  | 0.033  | 0.519  |
| Total Fixation Duration (s)           | 1.98 ± 0.83         | 2.21 ± 0.19            | 0.145  | 0.004  | 0.004  |
| Total Visit Duration (s)              | 2.49 ± 1.07         | 2.77 ± 1.06            | 0.140  | 0.009  | 0.099  |
| **Face recognition task**             |                      |                        |        |        |        |
| Percentage of correctly identified faces (%) | 95.24 ± 11.94       | 93.65 ± 17.06          | 0.715  | 0.010  | 0.859  |
| Average search time (s)               | 1.12 ± 0.68         | 0.95 ± 0.79            | 0.349  | 0.477  | 0.436  |
| Mean Fixation Duration (s)            | 0.31 ± 0.18         | 0.31 ± 0.16            | 0.498  | 0.036  | < 0.001|
| Fixation Count (n)                    | 6.58 ± 3.19         | 7.38 ± 2.59            | 0.075  | 0.898  | 0.279  |
| Total Fixation Duration (s)           | 1.69 ± 0.97         | 1.83 ± 0.88            | 0.065  | 0.179  | 0.451  |
| Total Visit Duration (s)              | 2.60 ± 1.34         | 2.59 ± 1.50            | 0.673  | 0.015  | 0.365  |
| **Reading task**                      |                      |                        |        |        |        |
| Reading speed (chars/s)               | 8.17 ± 3.08         | 8.57 ± 4.72            | 0.600  | < 0.001| 0.106  |
| Mean Fixation Duration (s)            | 0.21 ± 0.05         | 0.22 ± 0.07            | 0.592  | 0.030  | 0.008  |
| Progressive saccade number per line (n) | 8.36 ± 3.98         | 9.28 ± 3.77            | 0.654  | < 0.001| 0.011  |
| Regressive saccade number per line (n) | 1.75 ± 2.83         | 2.01 ± 1.49            | 0.231  | < 0.001| 0.374  |
| Proportion of regressive saccades (%)  | 13.26 ± 8.63        | 15.48 ± 7.36           | 0.576  | 0.005  | 0.962  |

SD: standard deviation.

$P_1$: baseline assessment of the control group vs follow-up assessment of the control group, by paired Student's t-tests (if the variables were normally distributed) or Wilcoxon signed-rank test (if the variables were not normally distributed).

$P_2$: baseline assessment of the control group vs baseline assessment of the cataract group, by unpaired Student's t-test (if the variables were normally distributed) or Mann-Whitney U test (if the variables were not normally distributed).

$P_3$: follow-up assessment of the control group vs follow-up assessment of the cataract group, by unpaired Student's t-test (if the variables were normally distributed) or Mann-Whitney U test (if the variables were not normally distributed).