**Supplementary Table 1a-b**

**Naming Scores by Age Group for ≤15 (1a) and ≥16 years education (1b) years of education**1

**Table 1a. Auditory and Visual Naming: ≤15 years education**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Age Group** | **56 – 65**  n=55  Mean (SD) Range | **66 – 75**  n=69 Mean (SD) Range | **76 – 85**  n=43 Mean (SD) Range | **86 – 100**  n=28 Mean (SD) Range |
| **ANT Number Correct** | 34.9 (1.7) 28 – 36 | 34.7 (1.8) 27 – 36 | 33.2 (3.2) 26 – 36 | 31.4 (4.7) 21 – 36 |
| **ANT RT** | 1.33 (0.43) 0.62 – 2.28 | 1.49 (0.61) 0.58 – 2.94 | 1.62 (0.78) 0.67 – 4.08 | 2.23 (0.84) 1.04 – 3.92 |
| **ANT < 2 seconds** | 30.9 (3.5) 23 – 36 | 30.1 (4.5) 16 – 36 | 28.6 (5.4) 17 – 36 | 24.1 (6.4) 9 – 32 |
| **ANT ≥ 2 seconds** | 3.9 (2.6) 0 – 11 | 4.6 (3.3) 0 – 12 | 4.6 (3.0) 0 – 12 | 7.2 (2.8) 3 – 14 |
| **ANT Correct with Cue** | 0.5 (0.9) 0 – 4 | 0.5 (1.0) 0 – 4 | 1.4 (1.7) 0 – 6 | 2.1 (2.4) 0 – 9 |
| **ANT TOT** | 4.4 (3.0) 0 – 11 | 5.2 (3.7) 0 – 13 | 6.0 (4.1) 0 – 16 | 9.3 (4.3) 3 – 20 |
| **ANT Summary Score** | 26.5 (6.5) 12 – 36 | 24.9 (8.2) 5 – 36 | 22.6 (9.5) 1 – 36 | 14.7 (10.6) -11 – 29 |
| **ANT Summary Score 2** | 27.0 (5.9) 13 – 36 | 25.5 (7.7) 5 – 36 | 24.0 (8.2) 5 – 36 | 16.8 (8.7) -5 – 29 |
| **VNT Number Correct** | 35.5 (0.9) 31 – 36 | 35.7 (0.6) 33 – 36 | 35.0 (1.4) 28 – 36 | 34.5 (1.6) 30 – 36 |
| **VNT RT** | 1.12 (0.31) 0.54 – 1.75 | 1.18 (0.35) 0.59 – 2.10 | 1.45 (0.46) 0.77 – 2.94 | 1.61 (0.67) 0.83 – 3.21 |
| **VNT < 2 seconds** | 32.9 (2.7) 26 – 36 | 32.9 (3.0) 24 – 36 | 30.4 (4.4) 13 – 36 | 28.8 (5.5) 17 – 35 |
| **VNT ≥ 2 seconds** | 2.6 (2.3) 0 – 8 | 2.7 (2.6) 0 – 11 | 4.5 (3.2) 0 – 15 | 5.6 (4.7) 1 – 19 |
| **VNT Correct with Cue** | 0.2 (0.6) 0 – 3 | 0.1 (0.3) 0 – 1 | 0.6 (1.0) 0 – 5 | 0.7 (0.9) 0 – 3 |
| **VNT TOT** | 2.8 (2.6) 0 – 9 | 2.9 (2.9) 0 – 12 | 5.2 (3.9) 0 – 20 | 6.4 (5.1) 1 – 19 |
| **VNT Summary Score** | 30.0 (5.4) 18 – 36 | 30.0 (5.9) 12 – 36 | 25.2 (8.3) -7 – 36 | 22.4 (10.6) -2 – 34 |
| **VNT Summary Score 2** | 30.2 (5.0) 20 – 36 | 30.1 (5.7) 13 – 36 | 25.8 (7.6) -2 – 25.8 | 23.2 (10.1) -2 – 34 |

**Table 1b. Auditory and Visual Naming: ≥ 16 years education**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Age Group** | **56 – 65**  n=66  Mean *(SD)*  Range | **66 – 75**  n=62  Mean *(SD)*  Range | **76 – 85**  n=48  Mean *(SD)*  Range | **86 – 100**  n=36  Mean *(SD)*  Range |
| **ANT Number Correct** | 35.4 (1.1) 30 – 36 | 35.7 (0.7) 31 – 36 | 34.7 (1.9) 24 – 36 | 34.3 (2.6) 22 – 36 |
| **ANT RT** | 1.14 (0.34) 0.63 – 2.10 | 1.17 (0.41) 0.52 – 3.01 | 1.58 (0.60) 0.72 – 3.27 | 1.54 (0.51) 0.70 – 2.94 |
| **ANT < 2 seconds** | 32.4 (3.0) 23 – 36 | 32.6 (3.1) 17 – 36 | 29.5 (4.0) 16 – 36 | 29.4 (4.5) 12 – 36 |
| **ANT ≥ 2 seconds** | 2.9 (2.2) 0 – 9 | 3.1 (2.9) 0 – 18 | 5.1 (3.0) 0 – 16 | 4.8 (2.7) 0 – 10 |
| **ANT Correct with Cue** | 0.3 (0.8) 0 – 4 | 0.1 (0.4) 0 – 3 | 0.5 (0.8) 0 – 4 | 0.7 (1.1) 0 – 4 |
| **ANT TOT** | 3.3 (2.8) 0 – 11 | 3.2 (3.0) 0 – 19 | 5.7 (3.4) 0 – 16 | 5.6 (3.1) 0 – 13 |
| **ANT Summary Score** | 29.1 (5.8) 13 – 36 | 29.3 (6.2) -2 – 36 | 23.7 (7.3) 4 – 36 | 23.8 (7.5) -1 – 36 |
| **ANT Summary Score 2** | 29.5 (5.2) 16 – 36 | 29.5 (6.0) -1 – 36 | 24.3 (6.9) 4 – 36 | 24.6 (7.0) 2 – 36 |
| **VNT Number Correct** | 35.9 (0.3) 34 – 36 | 35.9 (0.2) 35 – 36 | 35.2 (1.8) 24 – 36 | 34.8 (1.5) 30 – 36 |
| **VNT RT** | 1.00 (0.29) 0.44 – 1.82 | 1.05 (0.30) 0.46 – 1.85 | 1.36 (0.53) 0.62 – 3.31 | 1.40 (0.52) 0.66 – 3.23 |
| **VNT < 2 seconds** | 34.0 (2.1) 28 – 36 | 33.8 (2.3) 24 – 36 | 31.2 (4.2) 14 – 36 | 30.1 (4.0) 19 – 35 |
| **VNT ≥ 2 seconds** | 1.8 (2.0) 0 – 8 | 2.0 (2.2) 0 – 11 | 4.0 (3.1) 0 – 12 | 4.6 (3.3) 1 – 15 |
| **VNT Correct with Cue** | 0.05 (0.2) 0 – 1 | 0.05 (0.2) 0 – 1 | 0.3 (0.9) 0 – 6 | 0.6 (1.0) 0 – 4 |
| **VNT TOT** | 1.9 (2.0) 0 – 8 | 2.1 (2.2) 0 – 11 | 4.3 (3.6) 0 – 16 | 5.2 (3.8) 1 – 17 |
| **VNT Summary Score** | 32.0 (4.1) 20 – 36 | 31.7 (4.5) 13 – 36 | 26.9 (7.9) -2 – 36 | 24.9 (7.8) 2 – 34 |
| **VNT Summary Score 2** | 32.1 (4.1) 20 – 36 | 31.7 (4.5) 13 – 36 | 27.2 (7.2) 4 – 36 | 25.5 (7.2) 4 – 34 |

1Detailed administration instructions, test stimuli, and record forms can be obtained from the first author

ANT Auditory Naming Test

VNT Visual Naming Test

Number Correct Number Correct (items named within 20 seconds)

RT Response Time

< 2 seconds Number of items correct in < 2 seconds

≥ 2 seconds Number of items correct in 2-20 seconds

Correct with cue Number of items named >20 seconds within 5 seconds of phonemic cue

TOT Number of TOTs (#items named 2-20 seconds) + (#items correct with cue)

Summary Score Rapid – TOTs: Number of items <2 sec – TOT score (range: -36 - 36)

Summary Score 2 Rapid – Delayed responses: (Number of items <2 seconds) – (Number of items ≥2)

Note: Except for RT and Summary Scores, possible score range = 0-36.