**Table 1. Hierarchical regression analysis for the sequential paradigm with 1 bar, low memory load condition.**

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|  | **Statistical reports** |
| **Independent variables** | **Recall parameters****Error/ Precision/ von Mises SD/ Target or Uniform proportion (*F*, *P*)** |
| **Type** | (36.85, < 10-12\*)/ (25.48, < 10-9\*)/ (33.07, < 10-11\*)/ (3.11, < 0.05\*) |
| **Group** **Gender**  | (29.46, < 10-10\*)/ (20.05, < 10-7\*)/ (26.92, < 10-9\*)/ (1.97, = 0.14)(8.09, < 0.006\*)/ (4.41, < 0.04\*)/ (3.45, = 0.07)/ (2.44, = 0.12) |
| **Group** **Age** | (23.85, < 10-8\*)/ (18.48, < 10-6\*)/ (22.03, < 10-8\*)/ (1.87, = 0.16)(8.27, < 0.005\*)/ (1.57, = 0.21)/ (6.89, < 0.001\*)/ (0.57, = 0.45) |
| **Group** **Education** | (23.04, < 10-8\*)/ (15.41, < 10-5\*)/ (18.65, < 10-6\*)/ (2.59, = 0.08)(4.03, < 0.05\*)/ (2.42, = 0.12)/ (6.36, < 0.02\*)/ (0.01, = 0.91) |
| **Group****Cognitive abilitya** | (27.35, 10-9\*)/ (20.6, < 10-7\*)/ (25.54, < 10-9\*)/ (1.87, = 0.16)(4.46, < 0.04\*)/ (0.35, = 0.56)/ (5.25, < 0.03\*)/ (0.08, = 0.77) |

Cognitive ability: assessed based on the Montreal cognitive assessment (MoCA) test classification.

a One MoCA value in SPMS group is missing.

**\**P* < 0.05**