**Table S1**

*Correlations of Nondecision Time Estimates for the Three CRTs at Different Masking Time Conditions Among Each Other and With WM Tasks*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Pretest | | | | | | | | | | | | Posttest | | | | | | | | | | | |
|  | Letters | | | | Digits | | | | Figures | | | | Letters | | | | Digits | | | | Figures | | | |
|  | 12ms | 24ms | 47ms | 94ms | 12ms | 24ms | 47ms | 94ms | 12ms | 24ms | 47ms | 94ms | 12ms | 24ms | 47ms | 94ms | 12ms | 24ms | 47ms | 94ms | 12ms | 24ms | 47ms | 94ms |
| Pretest  Letters |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24ms | .941 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 47ms | .820 | .900 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 94ms | .696 | .793 | .933 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Pretest  Digits |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12ms | .453 | .518 | .541 | .500 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24ms | .413 | .517 | .608 | .600 | .918 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 47ms | .283 | .394 | .542 | .600 | .799 | .914 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 94ms | .256 | .368 | .535 | .618 | .767 | .884 | .948 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Pretest  Figures |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12ms | .690 | .705 | .645 | .566 | .577 | .553 | .445 | .446 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24ms | .632 | .682 | .691 | .650 | .591 | .606 | .516 | .537 | .953 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 47ms | .426 | .524 | .644 | .666 | .519 | .610 | .592 | .623 | .797 | .901 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 94ms | .265 | .375 | .543 | .605 | .418 | .540 | .574 | .626 | .644 | .778 | .923 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Posttest  Letters |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12ms | .271 | .246 | .181 | .158 | .198 | .184 | .142 | .192 | .282 | .299 | .235 | .242 |  |  |  |  |  |  |  |  |  |  |  |  |
| 24ms | .241 | .234 | .176 | .165 | .189 | .178 | .154 | .216 | .240 | .266 | .232 | .254 | .976 |  |  |  |  |  |  |  |  |  |  |  |
| 47ms | .229 | .219 | .172 | .180 | .207 | .204 | .185 | .250 | .233 | .273 | .250 | .276 | .952 | .978 |  |  |  |  |  |  |  |  |  |  |
| 94ms | .225 | .214 | .167 | .175 | .208 | .195 | .178 | .246 | .224 | .269 | .247 | .283 | .928 | .962 | .983 |  |  |  |  |  |  |  |  |  |
| Posttest  Digits |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12ms | .127 | .148 | .178 | .209 | .232 | .236 | .186 | .265 | .202 | .269 | .260 | .307 | .741 | .731 | .731 | .730 |  |  |  |  |  |  |  |  |
| 24ms | .168 | .189 | .215 | .245 | .247 | .258 | .218 | .297 | .231 | .302 | .298 | .337 | .775 | .777 | .796 | .788 | .972 |  |  |  |  |  |  |  |
| 47ms | .177 | .204 | .245 | .280 | .251 | .269 | .238 | .325 | .225 | .316 | .333 | .378 | .756 | .767 | .795 | .797 | .938 | .973 |  |  |  |  |  |  |
| 94ms | .166 | .202 | .250 | .297 | .254 | .277 | .241 | .336 | .198 | .299 | .327 | .371 | .707 | .734 | .766 | .781 | .902 | .935 | .970 |  |  |  |  |  |
| Posttest  Figures |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12ms | .168 | .180 | .218 | .212 | .225 | .272 | .267 | .300 | .289 | .342 | .357 | .353 | .748 | .739 | .752 | .737 | .758 | .807 | .774 | .729 |  |  |  |  |
| 24ms | .148 | .164 | .220 | .238 | .196 | .253 | .256 | .311 | .272 | .339 | .370 | .390 | .735 | .743 | .763 | .763 | .789 | .835 | .811 | .784 | .969 |  |  |  |
| 47ms | .180 | .199 | .259 | .281 | .235 | .290 | .300 | .355 | .270 | .352 | .383 | .431 | .733 | .746 | .775 | .768 | .773 | .833 | .827 | .806 | .929 | .966 |  |  |
| 94ms | .161 | .190 | .245 | .278 | .220 | .273 | .283 | .353 | .246 | .335 | .389 | .431 | .704 | .740 | .770 | .790 | .772 | .823 | .839 | .846 | .889 | .945 | .959 |  |
| Pretest  Alpha Span | .198 | .110 | .041 | .029 | -.150 | -.164 | -.150 | -.195 | -.050 | -.135 | -.198 | -.282 | -.043 | -.087 | -.068 | -.101 | -.156 | -.134 | -.174 | -.193 | -.047 | -.111 | -.155 | -.180 |
| Spatial 3-Back | .185 | .124 | .064 | .030 | -.073 | -.135 | -.160 | -.157 | .123 | .083 | -.033 | -.107 | .118 | .067 | .061 | .024 | .064 | .037 | .021 | -.027 | .039 | -.012 | -.024 | -.070 |
| Numerical MU | -.007 | -.083 | -.094 | -.109 | -.196 | -.270 | -.348 | -.306 | -.126 | -.168 | -.258 | -.262 | -.046 | -.071 | -.089 | -.103 | .055 | .013 | -.030 | -.040 | -.110 | -.125 | -.128 | -.158 |
| Animal Span | .163 | .078 | -.029 | -.085 | -.126 | -.212 | -.229 | -.312 | -.033 | -.155 | -.260 | -.372 | -.042 | -.071 | -.095 | -.127 | -.120 | -.132 | -.212 | -.248 | -.060 | -.139 | -.222 | -.251 |
| Numerical 3-Back | .149 | .051 | .068 | .043 | -.024 | -.078 | -.151 | -.138 | .041 | .026 | -.054 | -.106 | .051 | -.001 | -.004 | -.003 | .057 | .023 | .021 | .008 | .016 | -.030 | -.053 | -.085 |
| Spatial MU | .002 | -.042 | -.145 | -.159 | -.027 | -.141 | -.226 | -.226 | -.017 | -.100 | -.199 | -.201 | .084 | .039 | .032 | .000 | .025 | -.018 | -.099 | -.146 | -.069 | -.092 | -.126 | -.138 |
| Posttest  Alpha Span | .265 | .183 | .094 | .021 | -.106 | -.134 | -.173 | -.204 | .130 | .024 | -.124 | -.231 | .076 | .026 | .014 | -.034 | -.117 | -.099 | -.133 | -.178 | -.037 | -.100 | -.131 | -.201 |
| Spatial 3-Back | .036 | -.021 | -.106 | -.137 | -.205 | -.263 | -.277 | -.261 | .017 | -.006 | -.081 | -.090 | .230 | .208 | .203 | .181 | .091 | .089 | .099 | .079 | .030 | -.007 | -.019 | -.020 |
| Numerical MU | .115 | .068 | .013 | -.034 | -.163 | -.211 | -.254 | -.211 | .088 | .018 | -.041 | -.068 | .018 | -.013 | -.039 | -.074 | .013 | .010 | -.022 | -.055 | -.055 | -.092 | -.111 | -.147 |
| Animal Span | .166 | .098 | .015 | -.041 | .010 | -.093 | -.134 | -.173 | .047 | -.022 | -.150 | -.249 | .138 | .055 | .057 | .019 | -.055 | -.060 | -.070 | -.109 | .007 | -.060 | -.067 | -.127 |
| Numerical 3-Back | .196 | .132 | .085 | .041 | -.038 | -.062 | -.146 | -.099 | .123 | .117 | .012 | -.029 | .270 | .239 | .253 | .244 | .188 | .184 | .183 | .154 | .134 | .113 | .104 | .088 |
| Spatial MU | .091 | .127 | .092 | .068 | .045 | -.014 | -.074 | -.066 | .066 | .036 | .001 | .020 | .062 | .041 | .022 | -.007 | .046 | .024 | -.040 | -.061 | -.046 | -.082 | -.077 | -.117 |

*Note.* MU = Memory Updating. The critical value for correlations being significant (*N* = 101; α = .05; two-sided testing) is ±.196.