|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Model 1 | Model 2 | Model 3 | Model 4 |
| Cognitive Test | Effect size and 95% interval | Effect size and 95% interval | Effect size and 95% interval | Effect size and 95% interval |
| Point estimate | Lower limit | Upper limit | P-value | Point estimate | Lower limit | Upper limit | P-value | Point estimate | Lower limit | Upper limit | P-value | Point estimate | Lower limit | Upper limit | P-value |
| RBANS Index I combined | -14.711 | -23.059 | -6.363 | 0.001 | -14.246 | -22.571 | -5.920 | 0.001 | -14.573 | -23.021 | -6.125 | 0.001 | -12.961 | -22.220 | -3.702 | 0.006 |
| RBANS Index II combined | -14.831 | -28.615 | -1.047 | 0.035 | -15.080 | -30.059 | -0.100 | 0.048 | -14.632 | -28.478 | -0.786 | 0.038 | -14.265 | -29.330 | 0.800 | 0.063 |
| RBANS Index III combined | -7.122 | -11.952 | -2.293 | 0.004 | -7.132 | -12.036 | -2.229 | 0.004 | -7.015 | -11.967 | -2.063 | 0.005 | -6.454 | -11.650 | -1.259 | 0.015 |
| RBANS Index IV combined | -9.134 | -15.664 | -2.604 | 0.006 | -8.006 | -14.689 | -1.323 | 0.019 | -8.889 | -15.411 | -2.367 | 0.008 | -8.650 | -15.313 | -1.988 | 0.011 |
| RBANS Index V combined | -13.266 | -22.609 | -3.924 | 0.005 | -15.871 | -22.983 | -8.760 | <0.001 | -13.223 | -22.628 | -3.818 | 0.006 | -11.761 | -22.395 | -1.128 | 0.030 |
| RBANS Index Total Scale combined | -15.252 | -21.095 | -9.410 | <0.001 | -16.372 | -22.778 | -9.966 | <0.001 | -15.097 | -20.937 | -9.256 | <0.001 | -14.244 | -20.191 | -8.298 | <0.001 |
| MMSE combined | -1.288 | -1.983 | -0.594 | <0.001 | -1.282 | -1.954 | -0.611 | <0.001 | -1.279 | -1.968 | -0.590 | <0.001 | -1.177 | -1.843 | -0.511 | 0.001 |
| FAB(log) combined | 0.111 | 0.107 | 0.115 | <0.001 | 0.164 | 0.040 | 0.288 | 0.010 | 0.177 | 0.056 | 0.299 | 0.004 | 0.159 | 0.035 | 0.282 | 0.012 |

 Table 2S: Waist Hip Ratio versus Cognitive Function on the Combined three TUDA groups using Comprehensive Meta- Analysis

Model 1: Age, Education (Duration schooling), Sex (male), BMI, WHR, Current smoker, Past smoker, TUG, Total IADL

Model 2: Model 1 + Haemoglobin A1C (HbA1C)

Model 3: Model 1 + cerebrovascular diseases(transient ischaemic attack and/or stroke)

Model 4: Model 1 + c-reactive protein (CRP)

Combined: cognitive, bone and hypertensive cohorts combined using comprehensive meta analysis (CMA)

Abbreviations: BMI-Body Mass Index, WHR- Waist-Hip Ratio, TUG- Timed-Up-and-Go, IADL- Instrumental Activities of Daily Living, MMSE-Mini-Mental State Examination, FAB-Frontal Assessment Battery, RBANS-Repeatable Battery for the Assessment of Neuropsychological Status