Table 9. Study Characteristics and Outcomes for Cognitive Impairment Screening (MCI/Dementia vs. Normal), Self-Administered Instruments

| **Study,**  **Quality** | **Instrument (non-English Language)** | **Est. Time (Min)** | **N Screened,**  **N Analyzed** | **Selection Criteria** | **Age (y),**  **% Female,**  **Education (y)** | **% Dementia**  **% MCI** | **Diagnostic Criteria / Verification** | **Cut Point** | **Sens. (95% CI**  **or SE)** | **Spec. (95% CI or SE)** | **PPV (95% CI)** | **NPV (95% CI)** | **AUC (95% CI or SE)** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Jorm, 199680  Fair | Short  Informant Questionnaire on Cognitive Decline in the Elderly (IQCODE) | NR║ | 144  NR | POW/veteran | 72.9  0  NR | NR  NR | Mild memory impairment criteria NR  All | NR | NR | NR | NR | NR | 0.74 (0.05) |
| Jorm, 199680  Fair | Full IQCODE | NR║ | 144  NR | POW/veteran | 72.9  0  NR | NR  NR | Mild memory impairment criteria NR  All | NR | NR | NR | NR | NR | 0.75 (0.05) |
| Cruz-Orduna, 201171  Fair | Full  IQCODE (Spanish) | NR║ | 160  160 | Cognition-related complaint  PC | 72.4  70  88.8% ≤primary school | 9.4  46.9 | Below 10th percentile on at least one test  All | 3.31/3.35 | 71.11 (60.60, 80.18\*\*) | 74.29 (62.44, 83.99\*\*) | 78.05 (67.5, 86.4\*\*) | 66.67 (55.1, 76.9\*\*) | 0.75 (0.67, 0.82) |
| Tokuhara, 200690  Fair | Full  IQCODE | NR║ | 299  230 | ≥65 y  Japanese/  Okinawan  PC | 74.2  66  12.2 | 7  10 | Criteria NR  All | 3.3 | 82.6 (NR††) | 83.0 (NR††) | NR†† | NR†† | 0.87 (NR) |
| Scharre, 201087  Fair | Self-administered Gerocognitive Examination (SAGE) | 10-15 | 254  63 | >59 y  Geriatric outpatient; community; independent and assisted living facilities; senior centers; memory clinic | 78  66.7  93.7% ≥HS | 33  33 | ≥1.5 SD below norm  Subset | ≤16 | 79 (63, 90) | 95 (76, 100) | 97.1\*\* (84.7, 99.9\*\*) | 69.0\*\* (49.2, 84.7\*\*) | 0.919 (NR) |

\* Calculated from 2x2 table.

‡ Assumed.

║ Reported administration times varied, but the IQCODE can be self-administered in less than 20 minutes, so was included.

†† Confidence intervals could not be calculated.

\*\* Calculated using the sensitivity, specificity, and prevalence of cognitive impairment.

**Abbreviations:** AUC = area under the curve; Est = estimate; HS = high school; IQCODE = Short Informant Questionnaire on Cognitive Decline in Elderly; MCI = mild cognitive impairment; Min = minute; MMSE = Mini-Mental State Examination; N = number; NR = not reported; NPV = negative predictive; PC = primary care; POW = prisoner of war; PPV = positive predictive value; SAGE = Self-Administered Gerocognitive Examination; SD = standard deviation; SE = standard error; Sens = sensitivity; Spec = specitivity; Y = year.