The Clock Drawing Test: Utility for Dementia Detection in Multiethnic Elders

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Topic area/s: Dementia


Key Words: dementia, culturally appropriate assessment tools

Research aim:
To compare the effectiveness of the Clock Drawing Test (CDT) for dementia detection was compared with that of the Mini-Mental State Examination (MMSE) and the Cognitive Abilities Screening Instrument (CASI) in community-dwelling elders of diverse linguistic, ethnic, and educational backgrounds.

Results/Conclusion:
All tests were significantly affected by education (p < .001) but not by primary language (p > .05). In poorly educated non-English speakers, the CDT detected demented subjects with higher sensitivity than the two longer instruments (sensitivity and specificity 85% and 94% for the CDT, 46% and 100% for the MMSE, and 75% and 95% for the CASI). Moreover, less information was lost due to noncompletion of the CDT than the MMSE or CASI (severe dementia or refusal: CDT 8%, MMSE 12%, and CASI 16%).

Implications:
Overall, the CDT may be as effective as the MMSE or CASI as a first-level dementia screen for clinical use in multiethnic, multilingual samples of older adults. Its brevity (1-5 minutes), minimal language requirements, high acceptability, and lack of dependence on specialized testing materials are well adapted for screening of non-English-speaking elderly persons in settings where bilingual interpreters are not readily available and screening time is at a premium.

Cultural Group(s):
Non-English speakers

Location of study:
United States

Age group:
Elderly (not further defined)

Number included in study:
295

Type of participants:
elderly persons enrolled in the University of Washington's Alzheimer's Disease Research Center Satellite Registry for underserved poor or minority elderly persons. Included n=151 English speaking, n=154 other language speaking

Research approach:
Quantitative

Type of data:
Primary

Secondary data sources used:

Specific scales or analytical techniques used:

Implications/ Recommendations:

Notes: