

**Time and
Change Test
(T&C)**

This cognitive screening tool is accurate in identifying patients who need further evaluation for possible dementia. It is reliable for patients of various educational levels and ethnic and cultural backgrounds.

Administration

The test involves two tasks:

1. A large clockface with hands set at 11:10 is held 14 inches from the participant's eyes. He or she is given two tries to tell the time within a 60-second period.
2. An assortment of change (three quarters, seven dimes, and seven nickels) is placed on a well-lighted tabletop. The participant is given two tries within a 2-minute period to make a dollar in change.

Scoring

If the participant is not able to complete either or both tasks, the test is positive, indicating possible dementia (*) and the need for further evaluation.

Reference: Froehlich TE, Robison JT, Inouye SK. Screening for dementia in the outpatient setting: The Time and Change test. *J Am Geriatr Soc.* 1998;46:1506-11.

<http://www.gericareonline.net/tools/eng/memory/index.html>

(*)Pre test risk	positive screen	negative screen
20%	80% demented	8 % demented
10%	64% demented	4% demented

Improve sensitivity to 100% by reducing cut offs:

3 secs for Time test/ 12 secs for Change test.

Clock drawing form/Rev Nov 08 /Mdrive/Public/office docs/cog assessment forms

Instructions for Clock Drawing Task

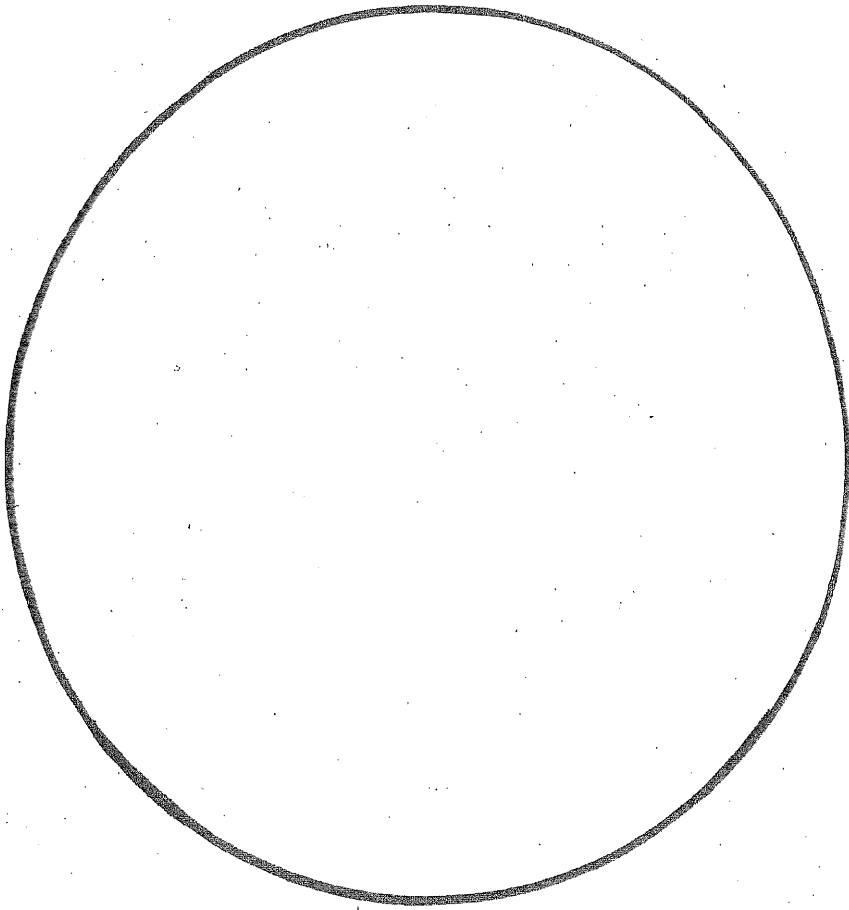
(Instructions to be read verbally/ may repeat verbatim as needed.
No cues allowed. Self correction permitted)

Draw a clock

Put all the numbers inside the clock.

Set the time at 10 minutes after 11.

See Freund CDT scoring scale if clock drawing task is being used to assess an individual's driving safety.



_____ Name

_____ date

Clock Drawing Task Scoring Scale

To score a clock drawing task check each box if the following criteria are met:

- one hand points at the 2
- exactly 2 clock hands
- absence of intrusive marks
- numbers are inside the clock
- all numbers 1-12 are present no duplicates or omissions
- numbers are spaced equally or nearly equally from each other
- numbers are spaced equally or nearly equally from the edge of the circle.

_____ Total number of boxes checked.

The Freund scale using the major criteria of time setting, numbers and spacing give a normal clock a score of 7 points.

- A score of 4 or below is associated with unsafe driving behavior and merits additional on road or simulator testing. In the presence of other findings suggestive of cognitive impairment, even scores of 5 or 6 should prompt consideration for driving evaluation. (Level of evidence: I a).

Ref: Freund B, et al. Drawing Clocks and Driving Cars. Use of brief tests of cognition to screen driving competency in older adults. J Gen Intern Med. 2005; 20; 240-244.