



About the TDRA



The Toronto Dementia Research Alliance (TDRA) brings together clinicians and scientists from leading Toronto institutions to advance dementia research and improve clinical care.

Together, we connect basic and clinical science, embed research into clinical care, engage the public, and foster city-wide collaboration to better understand, prevent, and treat dementia.



What is the TorCA?

The Toronto Cognitive Assessment (TorCA) is a 30-45 minute efficient and standardized cognitive tool that bridges the gap between brief screening tests (e.g. MoCA) and full neuropsychological test batteries.

Designed to detect early cognitive changes, particularly Mild Cognitive Impairment (MCI), it supports diagnosis and treatment planning and can be administered by trained healthcare professionals in both clinical and research settings.

Contact Us



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YouTube

[@tdra3924](https://www.youtube.com/channel/UCtdra3924)



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[@TorontoDementia](https://twitter.com/TorontoDementia)

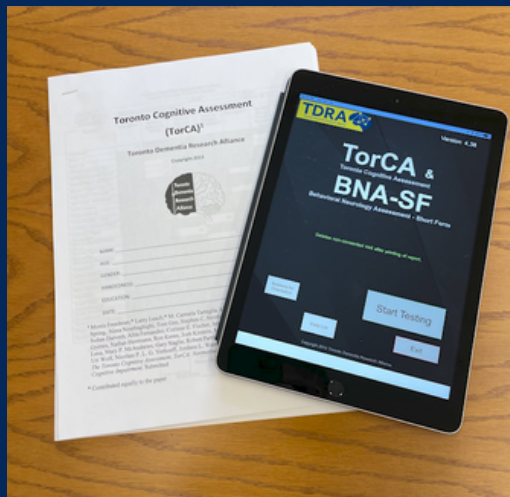


The Toronto Cognitive Assessment (TorCA)

Standardized cognitive assessment tool for detecting Mild Cognitive Impairment

Why Use the TorCA?

- 
Intermediate in length.
 More comprehensive than brief screening tests like the MoCA, but shorter than extensive neuropsychological test batteries
- 
Accessible.
 Can be administered by physicians or any other trained health care professional
- 
Clinically sensitive.
 Sensitivity: 92% | Specificity: 91% in differentiating individuals with amnesic MCI and those with normal cognition



What Does the TorCA Assess?

The TorCA consists of 27 subtests across 7 cognitive domains:

- 1. Orientation**
(e.g. personal knowledge, time, and place)
- 2. Visuospatial Function**
(clock drawing, figure copy)
- 3. Immediate Verbal Recall**
- 4. Delayed Verbal and Visual Recall**
(word list learning)
- 5. Delayed Verbal and Visual Recognition**
- 6. Working Memory, Attention, Executive Control**
(e.g. attention span, fluency, Trail-making tests)
- 7. Language**
(e.g. naming, comprehension, semantic knowledge)

Training & Access

Each aspect of TorCA, including administration and scoring, is covered in a series of short training videos (less than an hour in total). The TorCA and training videos are available through TDRA's [portal](#).

Digital Format

The TorCA is available on iPads, which can provide automated scoring, data collection, and reporting features.

Scoring

A total score and scores for each cognitive domain are generated, allowing for a comprehensive assessment of cognitive function.

Performance is compared to age-based norms, which classifies scores as:

- Normal range comparable to age-matched peers ($\geq 25^{\text{th}}$ percentile)
- Borderline clinically significant (6^{th} - 24^{th} percentile)
- Impaired range, clinically significant ($\leq 5^{\text{th}}$ percentile)

The TorCA has been normed and validated for individuals aged 50 to 90 with amnesic MCI, with results published [here](#). For more information on the TorCA please contact the TDRA.

The probability of aMCI is: 93.7%
 NB: Probability of aMCI applies only to differentiation of aMCI vs normal cognition

Total Score:
295

Index Summary:

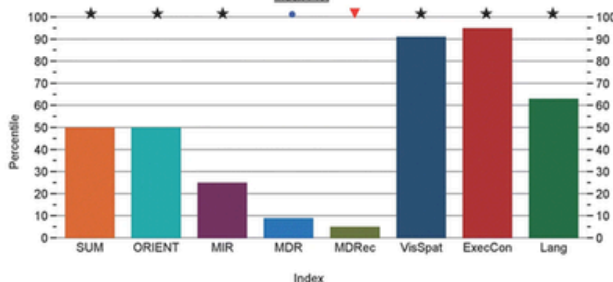
Results Summary

Age	SUM	ORIENT	MIR	MDR	MDRec	VisSpat	ExecCon	Lang
75	295	12	18	11	18	31	119	86

Percentile Rating

Age Group	SUM	ORIENT	MIR	MDR	MDRec	VisSpat	ExecCon	Lang
50-59	50 ★	50 ★	16 ●	9 ●	5 ▼	84 ★	91 ★	63 ★
70-79	50 ★	50 ★	25 ★	9 ●	5 ▼	91 ★	95 ★	63 ★

Index Plot



★ Within normal limits
 ● Borderline
 ▼ Below normal limits

SUM Total Score
 ORIENT Orientation
 MIR Immediate memory
 MDR Delayed recall
 MDRec Delayed recognition
 VisSpat Visuospatial
 ExecCon Executive control
 Lang Language