



Practical Guide | Cognitive Assessment Tools in Geriatrics





















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Population

Course: Common Geriatric Assessments

Topic: Physical Assessment Tools and Methods - Cognitive Functions in Geriatric Population

Duration: 3 Hours

Session Type: Group Activity and Peer Learning

Number of Groups: 5 Groups

Learning Objectives

By the end of this practical session, students will be able to:

- Demonstrate proficiency in administering five key cognitive assessment tools used in geriatric populations
- 2. **Analyze and interpret** results from cognitive assessment instruments appropriately
- 3. **Compare and contrast** the strengths, limitations, and appropriate applications of different cognitive assessment methods
- 4. **Apply critical thinking** to select the most appropriate assessment tool based on patient presentation and clinical context
- 5. **Communicate effectively** with older adults during cognitive assessment procedures
- 6. **Recognize** normal age-related cognitive changes versus pathological cognitive decline

Pre-Session Preparation

Required Materials (Per Group)

- Assessment tool protocols and scoring sheets
- Stopwatch/timer
- Pencils and paper
- Clipboard
- Calculator
- Copy of assessment forms for practice





Pre-Reading Assignment

Students should review basic concepts of:

- Normal cognitive aging processes
- Common cognitive impairments in older adults
- Principles of geriatric assessment
- Cultural considerations in cognitive testing

Session Structure Overview

Activity	Duration
Introduction & group formation	15 min
Group study & practice phase	90 min
Break	15 min
Group demonstrations	45 min
Reflection and wrap up	15 min

Detailed Session Plan

Phase 1: Introduction and Group Formation (15 minutes)

Instructor Activities:

- Welcome and session overview
- Explain learning objectives and expectations
- Form 5 groups of equal size (4-6 students per group)
- Assign each group one cognitive assessment tool
- Distribute materials and assessment protocols

Group Assignments:

Group 1: Mini-Cog Assessment Tool

Group 2: Montreal Cognitive Assessment (MoCA)

Group 3: Mini-Mental State Examination (MMSE)

Group 4: Trail Making Test (TMT) Part A & B





Group 5: Addenbrooke's Cognitive Examination (ACE)

Phase 2: Group Study and Practice Phase (90 minutes)

Each group will engage in structured learning activities focusing on their assigned assessment tool.

Group Activity Structure (All Groups - 90 minutes total)

Part A: Tool Familiarization (30 minutes)

- Review assessment protocol and instructions
- Understand scoring methodology
- Identify key cognitive domains assessed
- Discuss administration time and requirements
- Note contraindications and limitations

Part B: Practice Administration (45 minutes)

- Students take turns being assessor and "patient"
- Practice administering the tool multiple times
- Focus on proper instruction delivery
- Practice scoring and interpretation
- Discuss common administration challenges

Part C: Preparation for Demonstration (15 minutes)

- Plan group presentation strategy
- Assign roles for demonstration
- Prepare teaching points for other groups
- Practice smooth administration flow

Specific Focus Areas by Group

Group 1: Mini-Cog Assessment Tool

- Focus on: Clock drawing interpretation, three-word recall
- Practice: Scoring variations in clock drawing
- Consider: Cultural and educational factors

Group 2: Montreal Cognitive Assessment (MoCA)

• Focus on: Multiple cognitive domains, visuospatial tasks





- Practice: Trail making, abstraction, attention tasks
- Consider: Educational adjustments and normative data

Group 3: Mini-Mental State Examination (MMSE)

- Focus on: Orientation, registration, attention, recall, language Practice: Consistent administration technique
- Consider: Copyright and licensing requirements

Group 4: Trail Making Test (TMT) Part A & B

- Focus on: Timing accuracy, error recording
- Practice: Proper instruction delivery and error correction
- Consider: Motor limitations and visual impairments

Group 5: Addenbrooke's Cognitive Examination (ACE)

- Focus on: Comprehensive assessment approach, subscale scoring
- Practice: Fluency tasks, memory components
- Consider: Time management given test length

Phase 3: Group Demonstrations (45 minutes)

Each group has 9 minutes to demonstrate their assigned cognitive assessment tool.

Demonstration Format (9 minutes per group)

- Introduction (1 minute): Brief overview of the assessment tool
- Live Demonstration (5 minutes): One student acts as clinician, another as patient
- Teaching Points (2 minutes): Highlight key administration tips and interpretation guidelines
- Q&A (1 minute): Address questions from other groups

Demonstration

Requirements Each group

must address:

- 1. **Purpose and indications** for the assessment
- 2. **Step-by-step administration** process
- 3. **Scoring methodology** and interpretation





- 4. **Time requirements** and practical considerations
- 5. Strengths and limitations of the tool
- 6. Appropriate patient populations and settings

Peer Learning Component

While observing demonstrations, students should:

- Take notes on each assessment tool
- Compare and contrast different approaches
- Consider clinical applications
- Prepare questions for clarification

Phase 4: Reflection and Wrap-up (15 minutes)

Group Discussion Topics:

- Which assessment tool seems most appropriate for different clinical scenarios?
- What challenges did you encounter during practice?
- How do cultural and educational factors impact assessment choice?
- When might you use multiple assessment tools together?

Instructor-Led Summary:

- Reinforce key learning points
- Address common misconceptions
- Provide clinical context and real-world applications
- Preview next session topics

Assessment and Evaluation

Formative Assessment During Session

- Peer observation during practice sessions
- Instructor circulation and feedback during group work
- Quality of demonstrations and teaching to peers





Participation in discussions and Q&A

Evaluation Criteria for Group Demonstrations

- 1. Accuracy of administration (25%)
- 2. Clarity of instructions to "patient" (20%)
- 3. **Proper scoring technique** (20%)
- 4. **Teaching effectiveness** to peers (20%)
- 5. **Time management** and organization (15%)

Activity Review and Reflection Questions

Individual Reflection (To be completed post-session)

- 1. Which cognitive assessment tool do you feel most confident administering and why?
- 2. What specific challenges might you face when assessing cognitive function in older adults?
- 3. How would you modify your approach for patients with hearing impairments, visual limitations, or limited English proficiency?
- 4. Describe a clinical scenario where you might choose each of the five assessment tools.

Group Discussion Points

- Compare the sensitivity and specificity of different tools
- Discuss the role of cognitive assessment in comprehensive geriatric evaluation
- Consider ethical implications of cognitive testing
- Explore interprofessional collaboration in cognitive assessment

Clinical Application Guidelines

Tool Selection Criteria

- Mini-Cog: Quick screening in busy clinical settings
- MoCA: Detecting mild cognitive impairment
- MMSE: Tracking cognitive change over time
- TMT: Assessing executive function specifically
- ACE: Comprehensive evaluation when time permits





Special Considerations for Geriatric Populations

- Sensory impairments: Ensure adequate lighting and minimize background noise
- Physical limitations: Allow for motor difficulties in timed tasks
- Medication effects: Consider impact of medications on performance
- Fatigue factors: Schedule assessments at optimal times of day
- Cultural sensitivity: Use appropriate language and culturally relevant examples

Additional Resources and References

Recommended Follow-up Activities

- Practice with standardized patients or volunteers
- Observe experienced clinicians administering assessments
- Review case studies involving cognitive assessment
- Explore technology-enhanced cognitive testing options

Professional Development

- Consider certification courses for specific assessment tools
- Join professional organizations focused on geriatric assessment
- Attend workshops on cultural competency in cognitive testing
- Stay updated on emerging assessment technologies

Troubleshooting Common Issues

During Administration

- Patient refuses to participate: Explore reasons and modify approach
- Patient becomes frustrated: Provide encouragement and consider breaks
- Unclear responses: Use clarifying questions without leading
- Time constraints: Prioritize essential components

During Scoring

- Ambiguous responses: Refer to standardized scoring guidelines
- Incomplete assessments: Document reasons and partial scores





- Inconsistent performance: Note variability and potential causes
- Border-line scores: Consider clinical context and repeat if necessary

This practical guide provides a structured approach to learning cognitive assessment tools while emphasizing hands-on practice, peer learning, and clinical application in geriatric care settings.