3rd Canadian Consensus Conference
Recommendations on
Diagnosis and Treatment of Dementia

Sid Feldman MD, CCFP
and
Morris Freedman MD, FRCPC
Baycrest
University of Toronto
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Objectives

At the end of the session, participants will be able to apply recommendations from the 2006 Canadian Consensus Conference to diagnosis and treatment of:

• Mild cognitive impairment
• Dementia

Case

• 72 year old male
• Memory decline x 3 – 5 years

Audio of patient
Question for Participants

Initial Diagnostic Thoughts

Are the memory complaints likely due to normal aging?

Yes
No
Don’t know
Behavioural Flags (Personal): (1-4)

1. Poor historian, vague, seems “off,” repetitive questions and/or stories
2. Poor understanding or compliance with medications and/or instructions
3. Change in appearance, mood, personality, behaviour
4. Word-finding problems / decreased social interaction

Behavioural Flags (Personal): (5-7)

5. Subacute change in function without clear explanation (“just not right”).
7. Head-turning sign (turning to caregiver for answers)
**Behavioural Flags (Family):**

(1-4)

1. Frequent hospitalizations or visits to emergency room
2. Appearance, mood, personality, behaviour
3. Decreased social interaction
4. Subacute change in function without clear explanation (“just not right”).

(5-7)

5. Confusion.
6. Weight loss, dwindles, “failure to thrive”
7. Driving: accident, problems, tickets, family concerns
Patient has hypertension

Question for Participants
Is this information relevant to the diagnosis and management of dementia?
Yes
No
Don’t know

Key Recommendation Points:
Vascular Risk Factors

- There is good evidence to treat systolic hypertension (>160mm) in older individuals. In addition to reducing the risk of stroke, the incidence of dementia may be reduced.
- Vascular risk factors and comorbidities impact on the development and expression of dementia. (Fair evidence)
- There is some evidence that treating hypertension may prevent further cognitive decline associated with cerebrovascular disease. (Fair evidence)
Question for Participants

What differential diagnosis is added by history of vascular risk factors?

Vascular cognitive impairment (VCI)
Mild cognitive impairment (MCI)
Don't know

Vascular Cognitive Impairment

• Umbrella term
• Refers to full spectrum of cognitive deficits due to cerebrovascular disease
• Includes cognitive deficits pre-dementia and vascular dementia

O'Brien Am J Geriatric Psychiatry 2006
Audio of Patient
Question for Participants

What differential diagnosis is added by the additional history?

Alzheimer's disease
Mild cognitive impairment (MCI)
Depression
Don’t know

MCI: Amnestic

• Controversial concept
• Memory complaint
• Impaired memory
• No significant functional disability
• Not demented
Key Recommendation Points: MCI

- Most dementias are preceded by phase of mild cognitive decline
- MCI is high risk state for dementia
  (Fair Evidence)

General Neurological Exam

Normal except for tandem gait
Question for Participants

Which will be Most Useful for Dx?

- Neuropsychological assessment
  - MMSE
  - MoCA
  - Clock drawing

Question for Participants

Which will be Most Practical in Busy Office for Diagnosis?

- Neuropsychological assessment
  - MMSE
  - MoCA
  - Clock drawing
Key Recommendation Point

**MMSE and MoCA**

In cases where there is suspicion of cognitive impairment or concern about the patient’s cognitive status, and the MMSE score is in the “normal” range (24-30), tests such as the MoCA may be helpful (Fair Evidence)
MMSE = 30/30

MoCA not done
Question for Participants

**Diagnosis**

Are you now considering a diagnosis of AD?

Yes
No

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**Neuroimaging**

CT and SPECT: Normal
Question for Participants

Treatment Assuming Dx of MCI

Answer yes or no for each option

- No treatment
- Vitamin E
- Ginko biloba
- Cognitive activity
- Physical Exercise
- Cholinesterase inhibitor
- Estrogen

Treatment Assuming Dx of MCI
Recommendation Points

- Vitamin E (Fair against)
- Ginko biloba (Fair against)
- Cognitive activity (Insufficient evidence that this is beneficial; Fair evidence to promote as part of healthy lifestyle)
- Physical Exercise (Insufficient evidence that this is beneficial; Fair evidence to promote as part of healthy lifestyle)
- Cholinesterase inhibitor (Insufficient evidence)
- Estrogen (Fair evidence against)
Key Recommendation Point for Follow-up in MCI

• Monitor closely due to high risk of conversion to dementia (Fair Evidence)

Few Years Later

MMSE 26/30
Three Word Recall

Audio
Attention

Serial 7s

Audio
Question for Participants

Diagnosis

Are you now considering a diagnosis of AD?

Yes
No
Question for Participants
What Treatment would you choose?

Cholinesterase inhibitor
Memantine
Don’t know

Cholinesterase inhibitors
Key Recommendation Points
All three are modestly efficacious in mild to moderate AD (Good evidence)
Question for Participants

Is there evidence that one cholinesterase inhibitor is better than the others?

Yes
No

Key Recommendation Points re: Cholinesterase Inhibitors

• There is no evidence that one CI is more efficacious than another
• Basis for selection which agent to use should include adverse effect profile, and ease of use (Fair Evidence)
Key Recommendation Points: Adding Memantine

- Moderate to severe AD (Good Evidence)
- Often used in combination with a cholinesterase inhibitor

Behavioural problem

Video
Question for Participants

Treatment of Delusion

- No treatment
- Neuroleptic
- Benzodiazepine
- Trazodone
Key Recommendation Points: Delusions

- Try non-pharmacological approaches first (Fair Evidence)
- Combine pharmacological and non-pharmacological approaches if problem is severe (Fair Evidence)
- Neuroleptics can be used but must weigh benefits against risks such as cerebrovascular events and death (Good Evidence)

Agitation (Recommendation Points)

- Consider reducing or stopping ChEI
- Atypical neuroleptics (good evidence for risperidone and olanzapine)
  NB Only published RCT for quetiapine negative and worsened cognition
- Trazodone (insufficient evidence for or against)
- Citalopram
- Memantine
- Valproic acid, carbamazepine
Conclusions

• Selected key recommendations have been reviewed
• Refer to list of recommendations for reference as needed when clinical issues arise
• Use papers in CMAJ and Alzheimer’s and Dementia as a resource