

# 1 DETECTION AND DIAGNOSIS OF MCI<sup>1</sup>

The ‘Nationally Informed Recommendations on Approaching the Detection, Assessment, and Management of MCI’ was developed to create recommendations on MCI diagnosis and management based on high-level contemporary evidence. In section 1 of this 4 part series, we summarise the recommendations for detecting and diagnosing MCI.<sup>1</sup>

*Please note that these recommendations have been adapted from the Nationally Informed Recommendations on Approaching the Detection, Assessment, and Management of MCI 2022.<sup>1</sup>*



## Nationally Informed Recommendations on Approaching the Detection, Assessment, and Management of Mild Cognitive Impairment

Dementia is a growing global health challenge, with projections indicating that the number of people with dementia will increase from 50 million in 2015 to 150 million worldwide by 2050.<sup>1</sup>

Prior to the usual clinical symptoms of dementia, there can sometimes be changes in cognitive function that differ from the normal age-related cognitive decline. These manifest as decline on cognitive testing, yet the person remains functional in their daily activities, and thus do not meet criteria for dementia. This has been termed mild cognitive impairment (MCI).<sup>1</sup>

*“It is important to recognise and diagnose MCI, as it is not normal ageing. An earlier diagnosis gives the patient and clinician opportunities to focus on factors that reduce the chance of progression to dementia, as well as planning for the future and perhaps participating in research trials that require an accurate diagnosis. In addition, if the patient with MCI is found to lack biomarker evidence of an underlying neurocognitive disorder, they can feel reassured that they have a lower risk of progression to dementia. Patients with all medical conditions deserve an accurate diagnosis, and MCI is no exception”.*



A/Professor Michael Woodward AM

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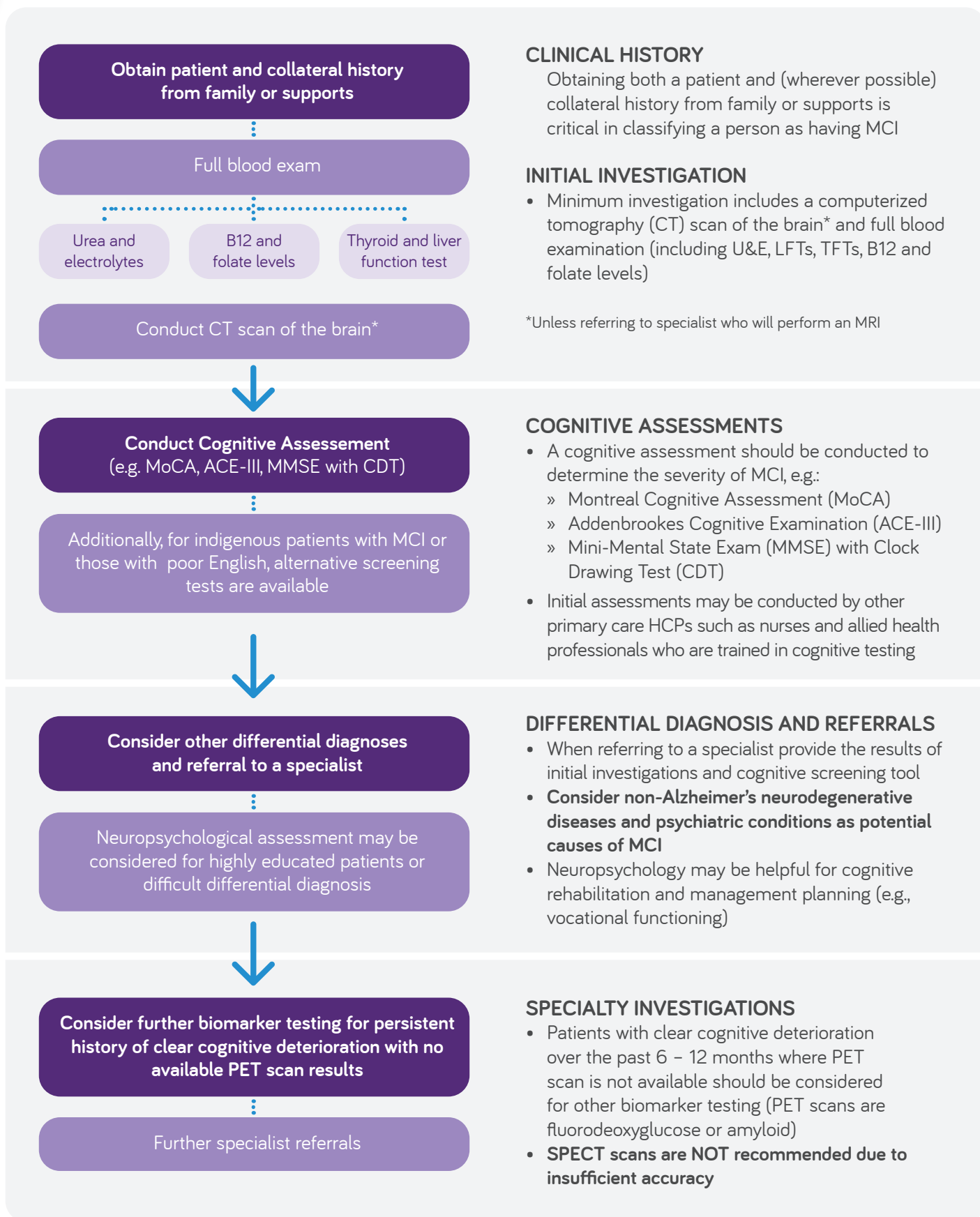
Thanks to Associate Professor Michael Woodward AM for reviewing this material.

**Reference:** 1. Woodward M, et al. Nationally Informed Recommendations on Approaching the Detection, Assessment, and Management of Mild Cognitive Impairment. *J Alzheimers Dis.* 2022;89(3):803-809.

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# DETECTION AND DIAGNOSIS OF MCI<sup>1</sup>



Please be advised this is not a medical diagnosis tool and is not intended to replace professional advice. The information provided in this tool may not be appropriate for your patients. You should not use this information to diagnose a health or medical condition or problem, or alter, commence or delay any medical treatment.

**Abbreviations:** CT, computerised tomography; MRI, magnetic resonance imaging; LFTs, liver function tests; TFTs, thyroid function tests; U&E, urea and electrolytes; MoCA, Montreal Cognitive Assessment; ACE- III, Addenbrookes Cognitive Examination; MMSE, Mini-Mental State Examination, CDT, Clock-Drawing Test; PET, positron emission tomography; SPECT, single-photon emission computed tomography.



# 2 SHARING THE DIAGNOSIS, MONITORING, AND FOLLOW UP<sup>1</sup>

The '*Nationally Informed Recommendations on Approaching the Detection, Assessment, and Management of MCI*' was developed to create recommendations on MCI diagnosis and management based on high-level contemporary evidence. In section 2 of this 4 part series, we summarise the recommendations for sharing the diagnosis, monitoring, and follow-up.<sup>1</sup>

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## Nationally Informed Recommendations on Approaching the Detection, Assessment, and Management of Mild Cognitive Impairment: sharing the diagnosis, monitoring and follow up

Dementia is a growing global health challenge, with projections indicating that the number of people worldwide with dementia will increase from 50 million in 2015 to 150 million by 2050.<sup>1</sup>

Prior to the usual clinical symptoms of dementia, there can sometimes be changes in cognitive function that differ from the normal age-related cognitive decline. These manifest as decline on cognitive testing, yet the person remains functional in their daily activities, and thus do not meet criteria for dementia. This has been termed mild cognitive impairment (MCI).<sup>1</sup>

Whilst MCI is a high risk state for progression to dementia, for patients diagnosed with MCI, it is important to communicate that MCI is not dementia and that some patients with MCI remain stable and some improve.<sup>2</sup> A diagnosis of MCI provides a window of opportunity to address risk factors that may contribute to cognitive decline and implement lifestyle interventions that can help slow further decline along with regular monitoring and follow up.<sup>1</sup>

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**Reference:** 1. Woodward M, et al. Nationally Informed Recommendations on Approaching the Detection, Assessment, and Management of Mild Cognitive Impairment. *J Alzheimers Dis.* 2022;89(3):803-809. 2. Petersen RC, et al. Practice guideline update summary: Mild cognitive impairment: Report of the Guideline Development, Dissemination, and Implementation Subcommittee of the American Academy of Neurology. *Neurology.* 2018 Jan 16;90(3):126-35.

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## SHARING THE DIAGNOSIS, MONITORING, AND FOLLOW UP<sup>1</sup>

Openly discuss MCI diagnosis with the patient

### SHARING THE DIAGNOSIS

- When sharing the diagnosis, with the patient's permission, other support or family should be invited to participate and written feedback must be provided
- It is important to discuss:
  - » The difference between normal aging, MCI and dementia
  - » The variability of the course of disease and strategies that may improve cognition or delay change
  - » Potential impacts on daily life (e.g., driving and work)

Note: There is not an immediate need to routinely address driving unless risk has been identified

Provide information and advice around medication, lifestyle interventions, chronic disease management and research participation

### MANAGEMENT

- At MCI diagnosis:
  - » Manage the patient's medication, chronic disease, evaluate for mood and offer lifestyle interventions (*see Section 3. Practical Interventions to Potentially Delay Progression*)
  - » Inform the patient of the availability of research participation\*

Review between 6 and 12 months

Cognitive assessment

Informant report

Functional assessment

If there is unexpected change, refer to specialist

### MONITORING AND FOLLOW UP

- Patients should ideally be reviewed by their GP or specialist between 6 and 12 months
  - » Review no later than 18 months
  - » Certain circumstances may trigger an early review:
    - Patient or family concern; recent hospital admission; multi-domain amnesic MCI; neurological signs; mood or behavioural symptoms
- The following should be included in any follow-up visit:
  - » Validated cognitive scale that is consistently repeated
  - » Comparative structured informant report
  - » Comparative structured functional assessment

#### Useful links:

\*Australia Dementia Network Screening and Trials - Australian Dementia Network - [www.australiandementianetwork.org.au/initiatives/adnet-trials/](http://www.australiandementianetwork.org.au/initiatives/adnet-trials/)



# 3 PRACTICAL INTERVENTIONS TO POTENTIALLY DELAY PROGRESSION<sup>1</sup>

The '*Nationally Informed Recommendations on Approaching the Detection, Assessment, and Management of MCI*' was developed to create recommendations on MCI diagnosis and management based on high-level contemporary evidence. In section 3 of this 4 part series, we summarise the recommendations for practical interventions to potentially delay progression.<sup>1</sup>

*Please note that these recommendations have been adapted from the Nationally Informed Recommendations on Approaching the Detection, Assessment, and Management of MCI 2022.<sup>1</sup>*



## Nationally Informed Recommendations on Approaching the Detection, Assessment, and Management of Mild Cognitive Impairment

Dementia is a growing global health challenge, with projections indicating that the number of people with dementia will increase from 50 million in 2015 to 150 million worldwide by 2050.<sup>1</sup>

Prior to the usual clinical symptoms of dementia, there can sometimes be changes in cognitive function that differ from the normal age-related cognitive decline. These manifest as decline on cognitive testing, yet the person remains functional in their daily activities, and thus do not meet criteria for dementia. This has been termed mild cognitive impairment (MCI).<sup>1</sup>

The annual conversion rate of MCI to dementia is typically reported as 10–15%, although some patients with MCI remain stable or convert back to normal. Therefore, it is important to address risk factors to help improve cognition and delay further cognitive decline for patients diagnosed with MCI. Lifestyle approaches that target dementia risk reduction should be recommended.<sup>1</sup>

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Souvenaid® is a food for special medical purposes for the dietary management of early Alzheimer's disease and must be used under medical supervision.

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# PRACTICAL INTERVENTIONS TO POTENTIALLY DELAY PROGRESSION<sup>1</sup>

Assess risk of cardiovascular disease and dementia at midlife

Assessment for indigenous groups/ Australians should be tailored to their needs and contexts

## RISK ASSESSMENT

- Addressing the risks of CVD as early as midlife is recommended
- Everyone should be offered an assessment for dementia risk in midlife using a validated tool (e.g., Australian National University Alzheimer's Disease Risk Index)
- The 45-49-year-old health check is a good opportunity to undertake the risk assessment

Assess and manage risk factors that may be contributing to cognitive impairment

## RISK MITIGATION

- Treating risk factors that may contribute to cognitive impairment should be the first steps in managing MCI
  - » Deprescribe medications that impair cognition, where possible
  - » Manage CVD risk
  - » Evaluate for depressed mood
  - » Detect and address hearing impairment
  - » Screen for sleep disorders
  - » Heavy and excess alcohol use should be treated
  - » Smoking cessation should be recommended
  - » Reduce exposure to air pollution

Encourage patients with MCI to undertake lifestyle interventions

## LIFESTYLE INTERVENTIONS



### Physical activity

People with MCI should be advised to undertake physical activity to the level advised by national guidelines



### Nutrition

Nutrition should be optimised (Mediterranean diet, MIND diet)



### Fortasyn Connect (Souvenaid)

Patients with MCI should be informed of the results of the LipiDiDiet 3 year RCT in those with prodromal AD and the availability of Souvenaid<sup>®</sup> in Australia<sup>†</sup>



### Cognitive activity

Patients with MCI are advised to remain cognitively active



### Social connection

Social engagement should be encouraged and social isolation avoided



### Mindfulness

Mindfulness practice should be recommended

<sup>†</sup>For more information on Souvenaid please visit [hcp.souvenaid.com.au](http://hcp.souvenaid.com.au)

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**Abbreviation:** AD, Alzheimer's Disease; CVD, cardiovascular disease; RCT, randomised controlled trial



# 4 PERSONALISING CARE – PLANNING ENGAGEMENT, AND MOTIVATION FOR THE LONG TERM<sup>1</sup>

The '*Nationally Informed Recommendations on Approaching the Detection, Assessment, and Management of MCI*' was developed to create recommendations on MCI diagnosis and management based on high-level contemporary evidence. In section 4 of this 4 part series, we summarise the recommendations for personalising care – planning engagement, and motivation for the long term.<sup>1</sup>

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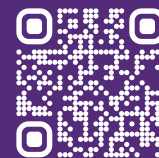
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Person-centred care – or the concept of the person's individual values, preferences and needs guiding all aspects of their care – is largely considered the gold standard of healthcare.<sup>2</sup> Person-centred care aims to improve aspects of healthcare such as safety, quality and coordination, as well as quality of life – all of which are essential components of care for people with MCI. Person-centred care can be achieved through active collaboration among the patient, those who are important to them, and all relevant healthcare providers.<sup>2</sup>

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### RESOURCES FOR PATIENTS WITH DEMENTIA AND THEIR CARERS

- Dementia Australia [www.dementia.org.au](http://www.dementia.org.au)
- Forward with Dementia <https://forwardwithdementia.au>
- Australian Dementia Network <https://www.austaliandementianetwork.org.au/>

Thanks to Associate Professor Michael Woodward AM for reviewing this material.

**Reference:** 1. Woodward M, et al. Nationally Informed Recommendations on Approaching the Detection, Assessment, and Management of Mild Cognitive Impairment. *J Alzheimers Dis.* 2022;89(3):803-809. 2. American Geriatrics Society Expert Panel on Person-Centered Care. Person-Centered Care: A Definition and Essential Elements. *J Am Geriatr Soc.* 2016;64:15-18.

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# PERSONALISING CARE – PLANNING ENGAGEMENT, AND MOTIVATION FOR THE LONG TERM<sup>1</sup>

**Offer a General Practitioner Management Plan (GPMP) to all eligible patients with MCI**

## MANAGEMENT

- All eligible people diagnosed with MCI should be offered a GPMP
- Work together with other healthcare providers to deliver comprehensive, patient-centered care
  - » Relevant providers could include: Practice Nurse, Audiologist, Pharmacist, Occupational Therapist, Physiotherapist, Exercise Physiologist, Dietitian, Dentist, Counsellor, Psychologist
  - » A Team Care Arrangement (TCA) may be applicable

Offer family assessment after diagnosis

**Conduct annual assessments**

Quality of life assessment

Health Check

## ASSESSMENTS

- People diagnosed with MCI and their family should be offered a comprehensive family assessment after diagnosis to provide education and a care plan
- It is recommended that the following assessments be conducted annually:
  - » Standardised quality of life assessment to monitor the impact of MCI
  - » Health check to promote health and reduce risk factors of cognitive decline
    - Hearing and eye check; medication review; chronic disease management; assessment of lifestyle factors, in particular, physical and social activity; mental and emotional health assessment

**Offer written information on useful contacts and services to patients with MCI**

## INFORMATION AND RESOURCES

- Every person with MCI should be offered written information on useful contacts and services, including:
  - » My Aged Care (65+ years)
  - » National Disability Insurance Scheme (NDIS) (under 65 years)
  - » Dementia Australia
  - » Forward with Dementia
  - » Carer Gateway (for carers)
- Offer information on substitute decision-making and Advance Care Directives
- Enduring Power of Attorneys in various domains should be recommended

**Provide support to carers and/or family members of people with MCI**

## SUPPORT FOR FAMILY MEMBERS AND CARERS

- Carers and/or family members of people with MCI should be provided with support, including:
  - » Education to increase their capacity to support the person with MCI to live well
  - » Information about Dementia Australia and Carer Gateway
  - » Encouragement to maintain their own wellbeing

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