



Dementia is not only Memory Loss

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BRAIN AND MENTAL HEALTH

Based on diagrams from
Head injury - A Practical Guide By Trevor Powell

Executive functions.
thinking, planning,
organising & problem
solving. Emotions &
behavioural control,
personality (frontal
lobe)

Movement
(motor cortex)

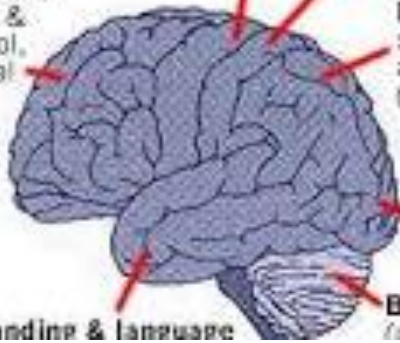
Sensation
(sensory cortex)

**Perception, making
sense of the world,
arithmetic, spelling**
(parietal lobe)

Vision
(occipital lobe)

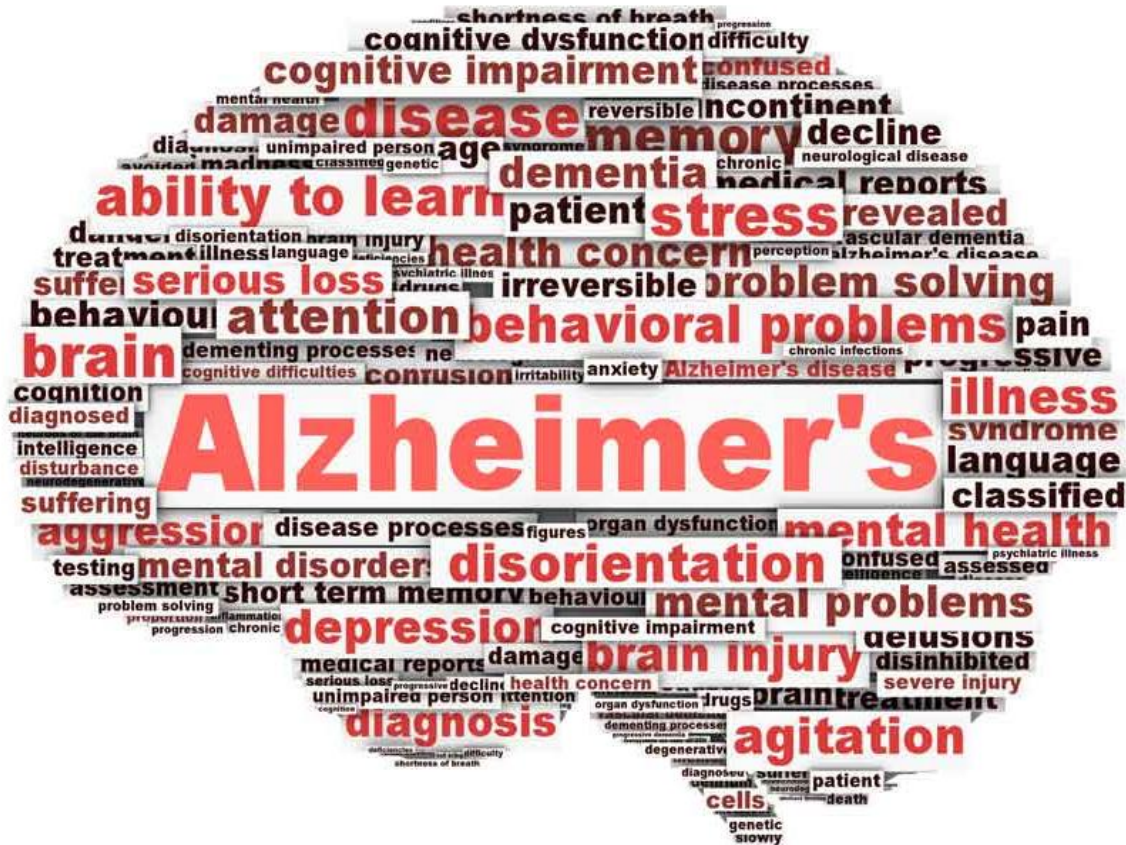
Balance
(cerebellum)

Memory, understanding & language



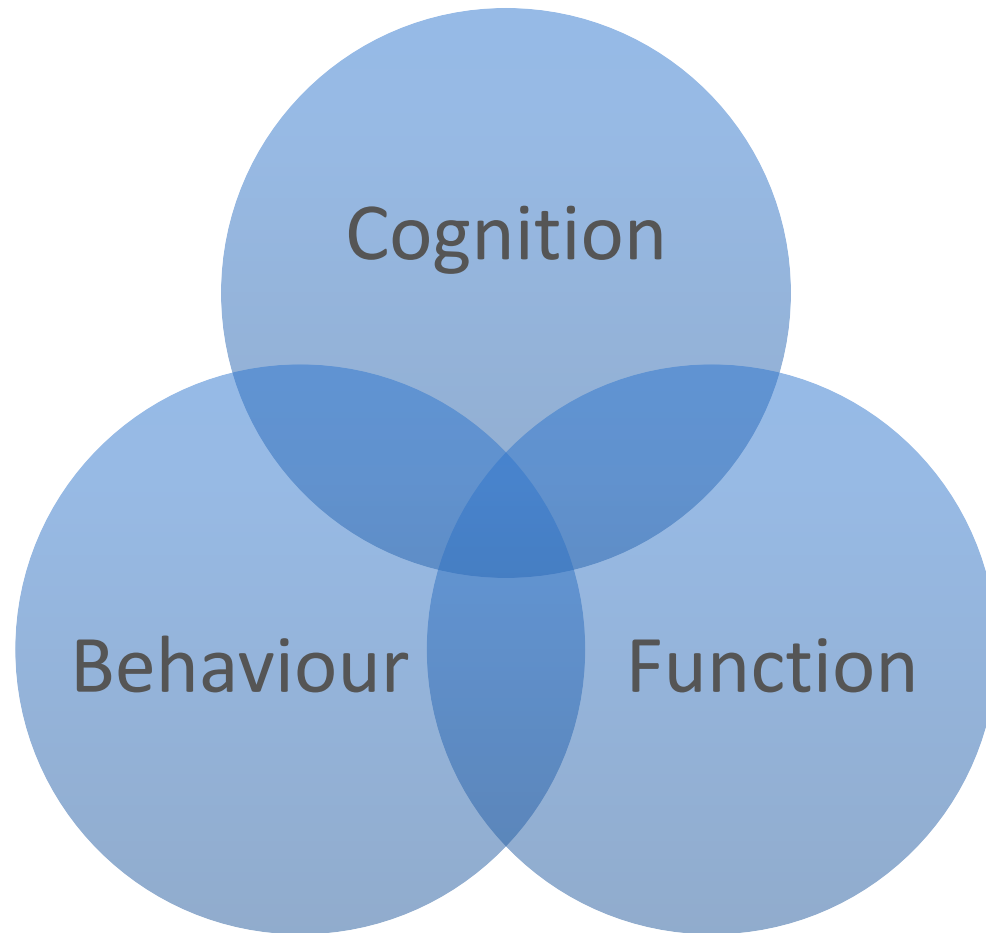


BRAIN AND ALZHEIMER'S DISEASE





ALZHEIMER'S DISEASE





DEMENTIA SERVICES - TRI

Current services:

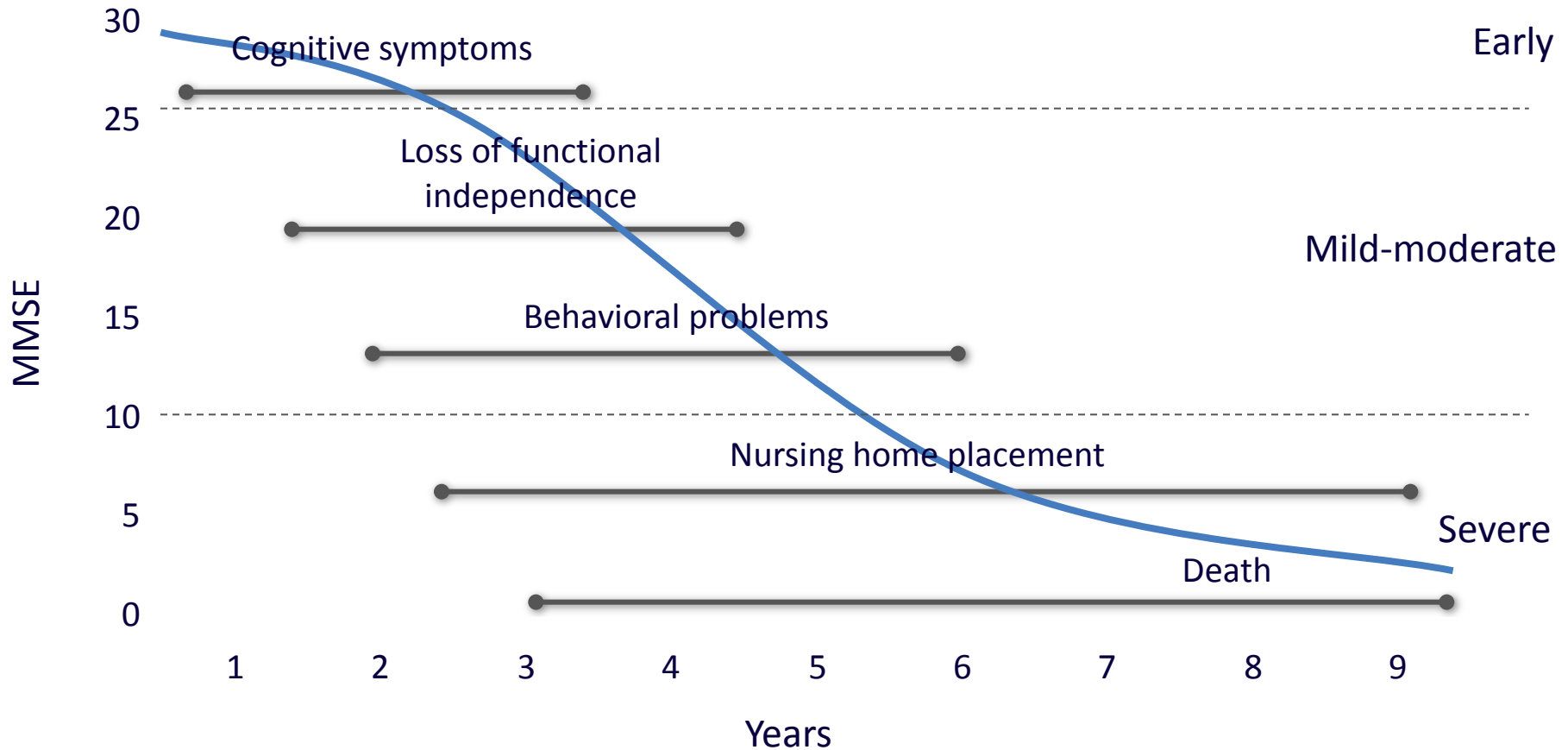
- UHN-TRI Memory Clinic
- TRI geriatric psychiatry consultation service
- TRI geriatric psychiatry telehealth
- UHN – TRI Geri-psych mental health outreach team (GMHOT)
- 5 South – Dementia inpatient service

Future plans:

- Geriatric psychiatry dementia consultation service



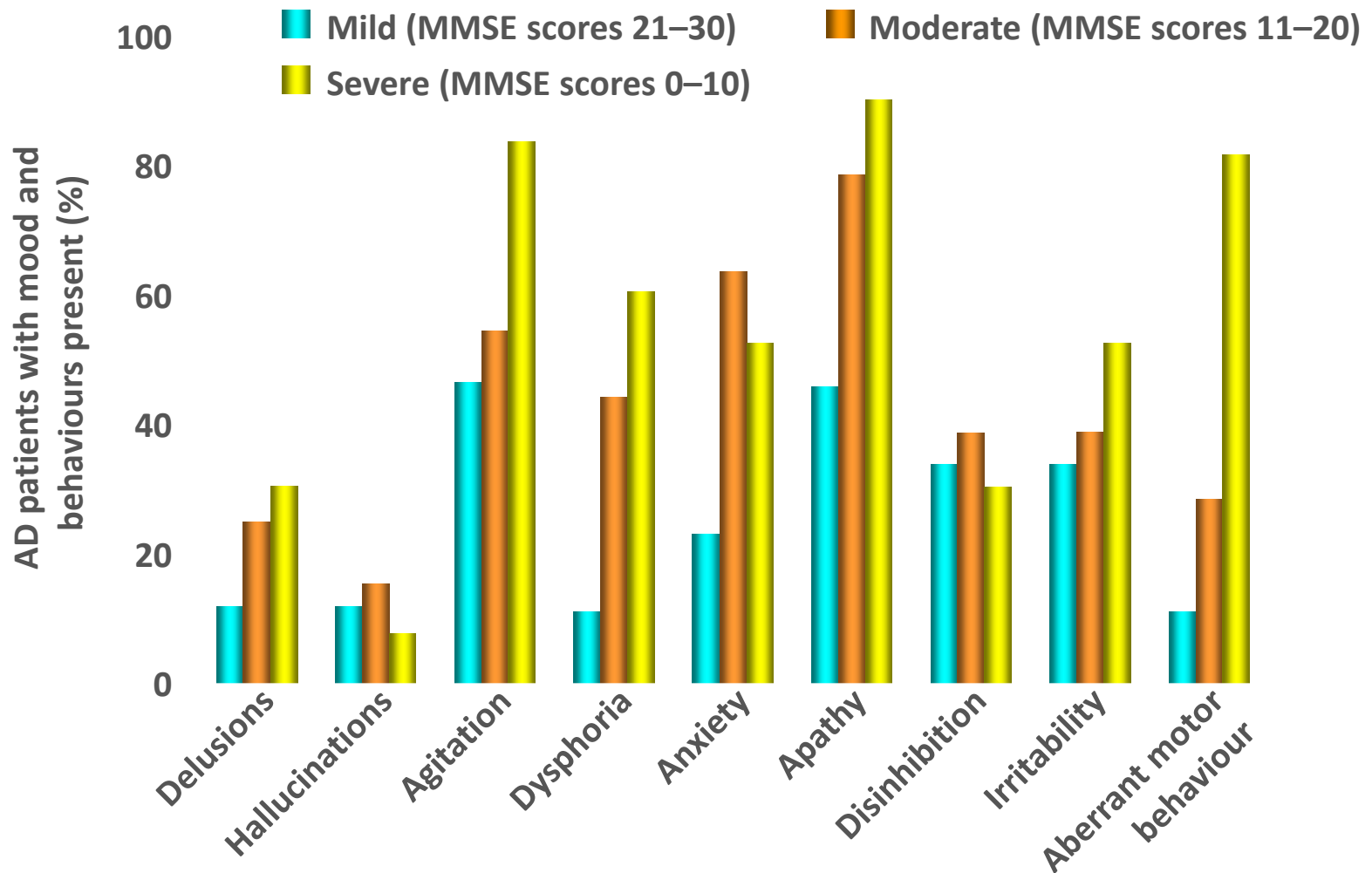
NATURAL HISTORY OF AD



Feldman H and Grundman M. *Clinical Diagnosis and Management of Alzheimer's Disease*, 1999.



BEHAVIOURAL AND PSYCHOLOGICAL SYMPTOMS OF AD





AN APPROACH TO THE TREATMENT OF THE BEHAVIOURAL SYMPTOMS OF DEMENTIA

- Describe
- Decode
- Devise
- Determine



AGITATION/AGGRESSION

MEDICAL CAUSES

- delirium (medications, infection, fluid and electrolyte disturbances)
- pain (fractures, cardiac, arthritic, dental)
- constipation/urinary retention
- hunger/thirst
- difficulties in communicating
- sensory impairment
- anxiety/depression/psychosis



AGITATION/AGGRESSION ENVIRONMENTAL CAUSES

- Inflexible and regimented caregivers
- Dementia-unfriendly facilities
 - language and cultural barriers
 - crowding, noise, mirrors
- Over/under stimulation
- Catastrophic reactions



NON- PHARMACOLOGICAL INTERVENTIONS FOR RESPONSIVE BEHAVIOURS

- Evidence supports the efficacy of
 - structured activity programs
 - caregiver education/staff training
 - changes to physical environment
 - music
 - light therapy
 - Aromatherapy*

Ballard CG, et al J Clin Psychiatry. 2002;63:553-558

Holmes, C et al, Int. J Geriatr Psychiatry. 2001;49: 305-308

Jiska Cohen-Mansfield, Am J Geriatric Psychiatry 9:4 Fall 2001



DEMENTIA UNIT INNOVATION PLAN

- Environmental changes that will positively impact patient behaviour
- Appropriate way-finding that will include individualization of 15 patient bedrooms, adding tactile walls in hallways, etc.
- Improvements to the patient experience in shower rooms
- Interventions to reduce exit seeking behaviour, such as camouflaging the main exit
- Additions that will promote calming behaviour such as artwork and music
- Installations that will engage patients in relaxation activities
- Conversion of the unit into a 'Life Lab' by installing infrastructure to support a variety of sensors that shall be used to collect patient data for research purposes.



BEHAVIOUR TRACKING APP





SUMMARY

- Brain Health = Mental Health
- Alzheimer's disease affects cognition, behaviour and function
- Successful management of responsive behaviours focuses on an understanding of the underpinnings of these behaviours
- Clinicians at TRI are dedicated to improving the QOL of individuals with dementia and to the development of innovative treatments that will change the landscape of dementia care



THANK YOU