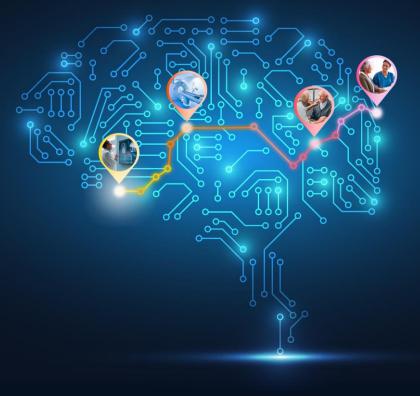
#### **SYMPOSIUM**

### Clinical care pathway for Alzheimer's disease: Driving improvements in diagnosis

Approved for AMA PRA Category 1 Credit<sup>™</sup>





### Disclaimer

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- USF Health and touchIME accept no responsibility for errors or omissions





#### Dr Sharon Cohen (Chair)

Toronto Memory Program, Toronto, ON, Canada

#### **Prof. Sven Haller**

Centre d'Imagerie Médicale Cornavin, Geneva, Switzerland

#### Dr Ronan Factora

Cleveland Clinic, Cleveland, OH, USA



## Agenda

#### Introduction and welcome

Dr Sharon Cohen

**Early and accurate diagnosis of AD in the DMT era** Dr Sharon Cohen

**Imaging and fluid biomarkers in the pathway to AD diagnosis** *Prof. Sven Haller* 

**Collaborative patient-centred care across the AD continuum** Dr Ronan Factora

**Summary and close** Dr Sharon Cohen

> Each session will include interactive audience polling, a patient case study and audience Q&As





Summarize the value of an early and accurate Alzheimer's disease diagnosis for optimal patient outcomes in an era of disease-modifying therapies

Outline the steps to diagnosis of Alzheimer's disease and the recommended tests and assessments to support a biological diagnosis

Assess the role of the multidisciplinary team in supporting a patient with Alzheimer's disease along the disease continuum



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### Early and accurate diagnosis of AD in the DMT era o\_\_\_\_\_



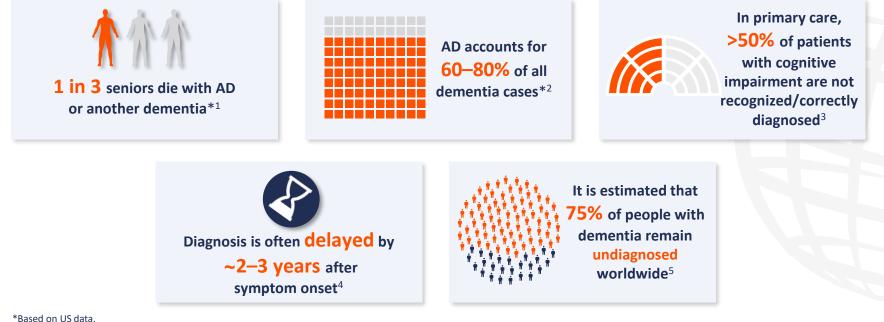


#### **Dr Sharon Cohen** Toronto Memory Program, Toronto, ON, Canada





The timely and accurate diagnosis of AD is an unmet need in clinical practice



"Based on US data.

AD, Alzheimer's disease.

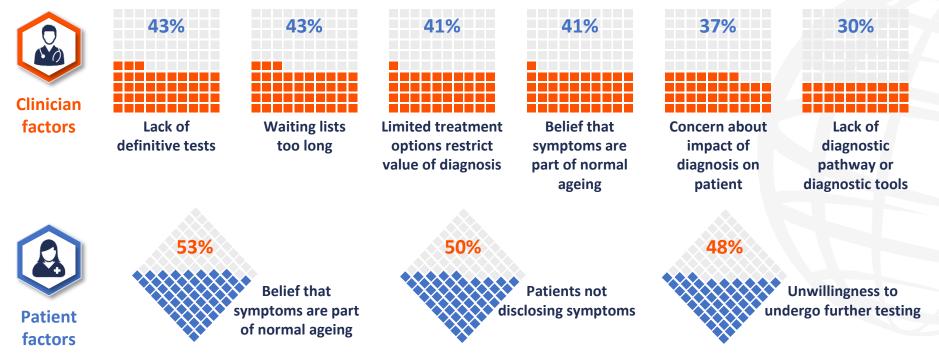
1. Alzheimer's Association. 2023. Available at: www.alz.org/media/Documents/alzheimers-facts-and-figures-infographic.pdf (accessed 14 September 2023);

2. Alzheimer's Association. Alzheimers Dement. 2023;19:1598–695; 3. Angioni D, et al. J Prev Alzheimers Dis. 2022;9:569–79;

4.Sabbagh MN, et al. Neurol Ther. 2017;6(Suppl. 1):83–95; 5. Gauthier S, et al. Available at: www.alzint.org/u/World-Alzheimer-Report-2022.pdf (accessed 14 September 2023).

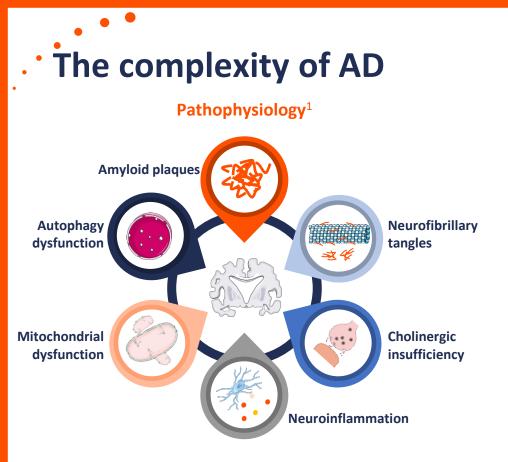


### **Barriers to diagnosis of MCI or AD**\*



NEUROLOGY

\*Data from a cross-sectional survey of 1,365 PCPs and specialists (geriatricians, neurologists, psychiatrists and psychogeriatricians) from Europe (France, Germany, Italy, Spain and the UK), USA and Canada, who routinely manage patients with complaints of age-related cognitive impairment. AD, Alzheimer's disease; MCI, mild cognitive impairment; PCP, primary care physician. Judge D, et al. Int J Alzheimers Dis. 2019;2019:3637954.



#### Symptoms<sup>2</sup>

Forgetting recent events; disoriented to time/place Difficulty naming objects or using the wrong name Misplacing belongings; difficulty with way-finding Difficulty concentrating; difficulty multitasking Difficulty with object use; difficulty with calculation Reduced problem solving, planning, organizing Decreased insight and poor judgement Decreasing ability to perform IADL then BADL Apathy, anxiety, depression, agitation, sleep disturbance, delusions, social withdrawal

Images: Servier Medical Art by Servier is licensed under a Creative Commons Attribution 3.0 Unported License (<u>https://creativecommons.org/licenses/by/3.0/</u>).
AD, Alzheimer's disease; BADL, basic activity of daily living; IADL, instrumental activities of daily living.
1. Dhapola R, et al. *Inflammopharmacology*. 2021;29:1669–81; 2. Alzheimer's Association. *Alzheimers Dement*. 2023;19:1598–695.



### Why an early and accurate diagnosis matters

Acknowledges patient and family concerns and their need for diagnostic certainty<sup>1,2</sup>



Enables patients to plan for the future when they can still be involved in decision making<sup>1,2</sup>



Facilitates access to individualized support services for patient and family<sup>1,2</sup>



Avoidance of dangerous and challenging behaviour (e.g. traffic accidents, stoves left on)<sup>1,2</sup>



Ē

Determines appropriate pharmacological treatment, including eligibility for newly approved DMTs<sup>1,2</sup>



Can promote shared management<sup>1,2</sup>

Demystifies and destigmatizes AD<sup>1,2</sup>

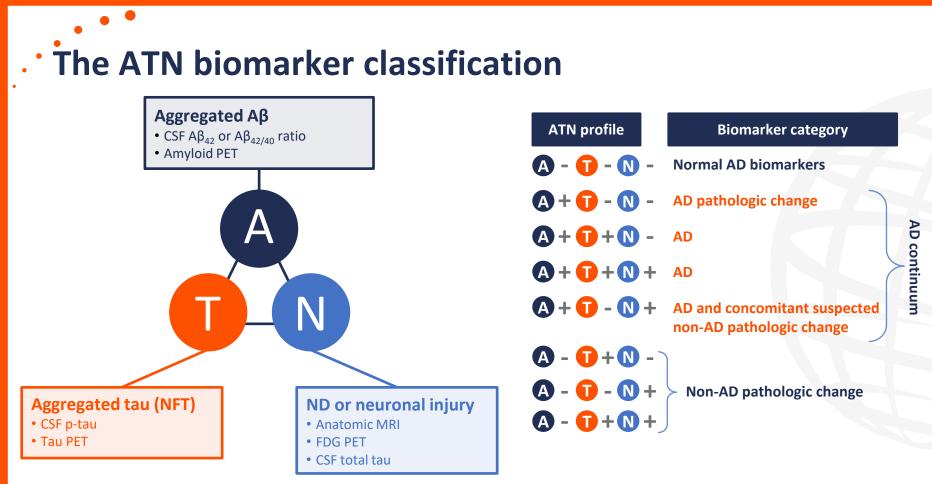


Helps facilitate treatment or management of coexisting conditions that may worsen cognitive function<sup>1,2</sup>

AD, Alzheimer's disease; DMTs, disease-modifying therapy.

1. Dubois B, et al. J Alzheimers Dis. 2016;49:617–31; 2. Alzheimer's Disease International. Available at: <u>www.alzint.org/about/symptoms-of-dementia/importance-of-early-</u> <u>diagnosis/</u> (accessed 14 September 2023).



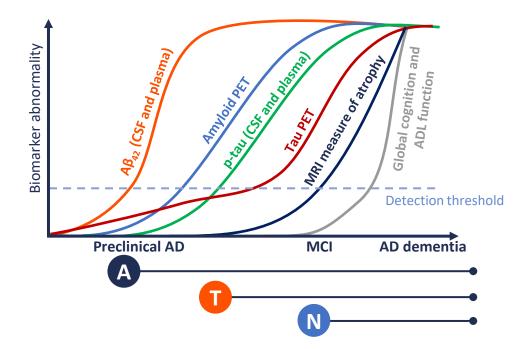


Aβ, amyloid-beta; AD, Alzheimer's disease; ATN, amyloid/tau/neurodegeneration; CSF, cerebrospinal fluid; FDG, fluorodeoxyglucose; MRI, magnetic resonance imaging; ND, neurodegeneration; NFT, neurofibrillary tangle; p-tau, phosphorylated tau; PET, positron emission tomography. Jack CR Jr, et al. *Alzheimers Dement*. 2018;14:535–62.



### <sup>•</sup> Biomarker trajectories in AD

**Biomarkers and the ATN classification**<sup>1–3</sup>



Aβ, amyloid-beta; AD, Alzheimer's disease; ADL, activities of daily living; ATN, amyloid/tau/neurodegeneration; CSF, cerebrospinal fluid; MCI, mild cognitive impairment; MRI, magnetic resonance imaging; p-tau, phosphorylated tau; PET, positron emission tomography.

1. Hansson O. Nat Med. 2021;27:954–63; 2. McDade E, et al. Alzheimers Dement (N Y). 2020;6:e12069; 3. Counts SE, et al. Neurotherapeutics. 2017;14:35–53.



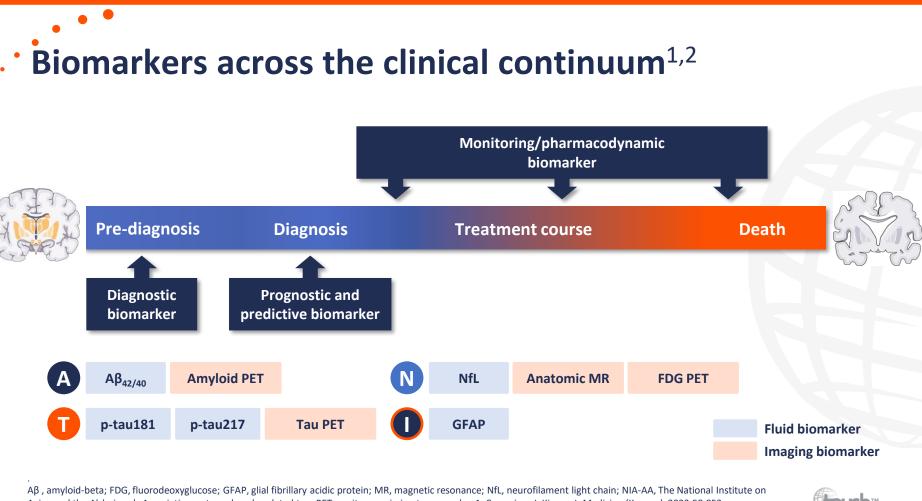
### Beyond the ATN biomarker classification

NIA-AA Revised Clinical Criteria for AD: AD may be diagnosed by any abnormal core AD biomarker

		FLUID	IMAGING
Core biomarkers	A Aβ proteinopathy	Αβ <sub>42/40</sub>	Amyloid PET
	AD tau proteinopathy	p-tau181, p-tau217	Tau PET
Non-specific biomarkers of AD pathophysiology	N Injury, dysfunction or degeneration of neuropil	NfL	Anatomic MR, FDG PET
	Inflammation	GFAP	
Biomarkers of non-AD co-pathology	Vascular brain injury		Anatomic infarction, WMH abundant dilated
	S α-Synuclein	αSyn-SAA*	perivascular spaces
ly informative when measured in CSF.	•		

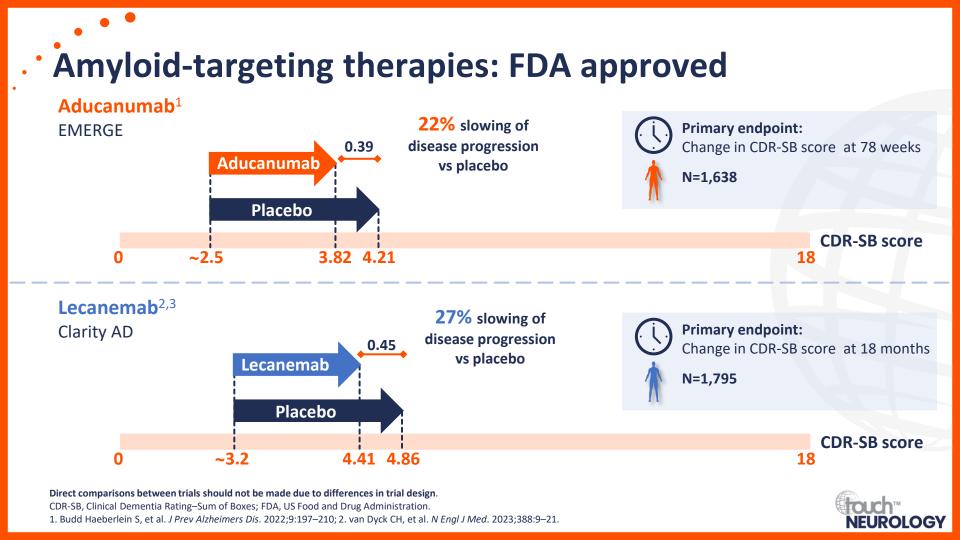
A $\beta$ , amyloid-beta; AD, Alzheimer's disease; ATN, amyloid/tau/neurodegeneration; CSF, cerebrospinal fluid; FDG, fluorodeoxyglucose; GFAP, glial fibrillary acidic protein; MR, magnetic resonance; NfL, neurofilament light chain; NIA-AA, The National Institute on Aging and the Alzheimer's Association; p-tau, phosphorylated tau; PET, positron emission tomography; WMH, white matter hyperintensities.

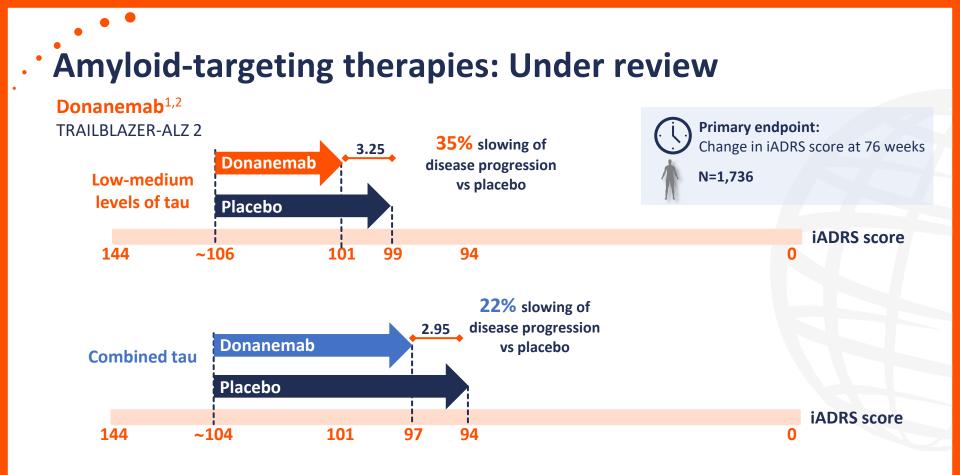
NIA-AA. 2023. Available at: https://aaic.alz.org/downloads2023/NIA-AA-Revised-Clinical-Criteria-AAIC-2023.pdf (accessed 14 September 2023).



Aging and the Alzheimer's Association; p-tau, phosphorylated tau; PET, positron emission tomography; 1. Cummings J, Kinney J. *Medicina (Kaunas)*. 2022;58:952; 2. NIA-AA. 2023. Available at: <u>https://aaic.alz.org/downloads2023/NIA-AA-Revised-Clinical-Criteria-AAIC-2023.pdf</u> (accessed 14 September 2023).

### 





iADRS, Integrated Alzheimer's Disease Rating Scale.

1. Sims JR, et al. JAMA. 2023;330:512-27;

2. Alzheimer's Research UK. Available at: www.alzheimersresearchuk.org/blog/new-alzheimers-drug-donanemab-what-is-it-and-how-does-it-work/ (accessed 15 September 2023).



. 2023 AD drug development pipeline

# Phase I

# Phase II

Phase III

DMT biologics

Cognitive enhancers DMT small molecules

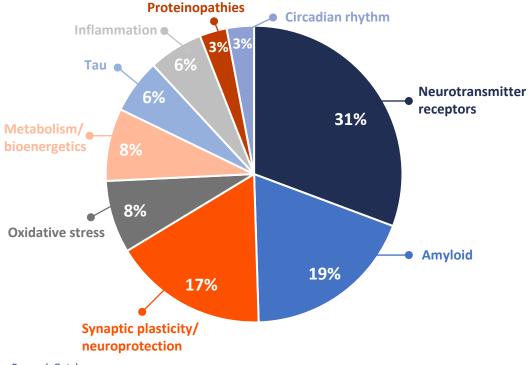
Neuropsychiatric symptom therapies



AD, Alzheimer's disease; DMT, disease-modifying therapy. Cummings J, et al. *Alzheimers Dement (N Y)*. 2023;9:e12385.

### • Mechanism of action of agents in phase III

#### **CADRO** mechanisms



CADRO, Common Alzheimer's Disease Research Ontology. Cummings J, et al. Alzheimers Dement (N Y). 2023;9:e12385.





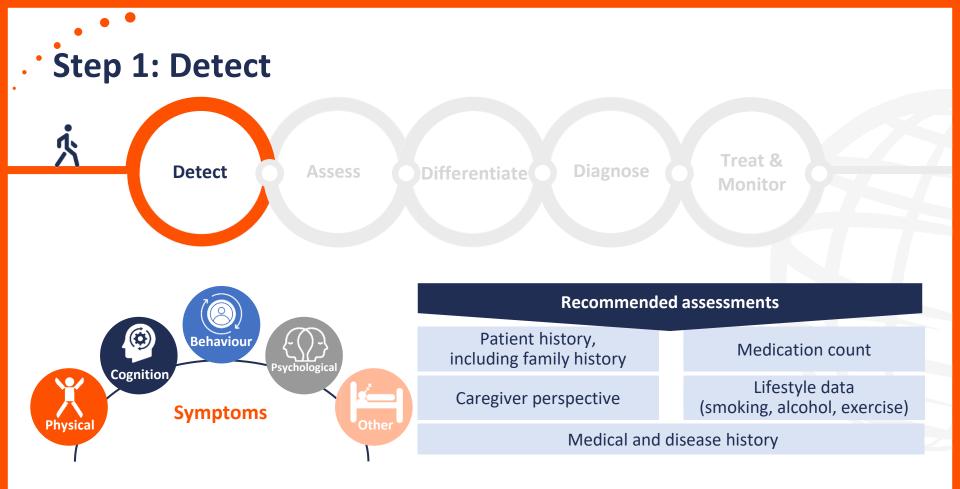
### Imaging and fluid biomarkers in the pathway to AD diagnosis o.





Centre d'Imagerie Médicale Cornavin, Geneva, Switzerland







### **Step 2: Assess/differentiate**



Recommended assessments	Physical examination	<b>Cognitive tests:</b> AD8, IQCODE, MMSE, MoCA, Mini-Cog, QDRS	
	Neurological examination		
	Blood tests (full blood count)	Functional tests: A-IADL-Q, FAST, FAQ	
	Genotyping (in selected cases)	Behavioural tests: GDS, NPI-Q	

\*Usually considered after a diagnostic workup.

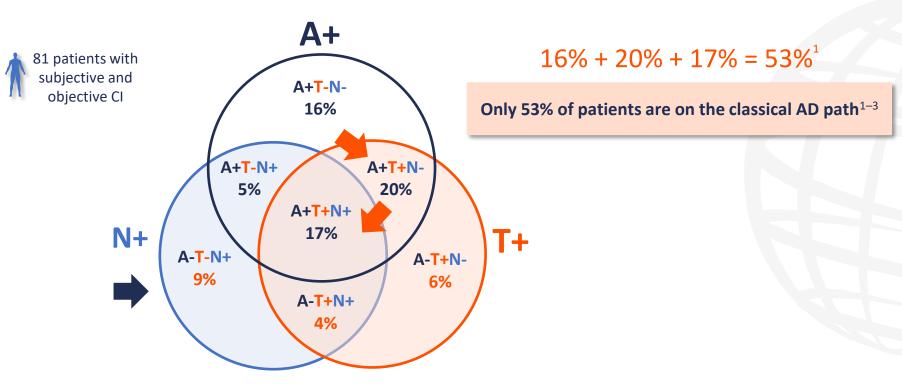
AD8, Ascertain Dementia 8; A-IADL-Q, Amsterdam Instrumental Activities of Daily Living Questionnaire; FAQ, Functional Activities Questionnaire; FAST, Functional Analysis Screening Tool; FDG-PET, fluorodeoxyglucose positron emission tomography; GDS, Geriatric Depression Scale; IQCODE, Informant Questionnaire on Cognitive Decline in the Elderly; Mini-Cog, Mini Cognitive Assessment Instrument; MMSE, Mini Mental State Examination; MoCA, Montreal Cognitive Assessment; MRI, magnetic resonance imaging; NPI-Q, Neuropsychiatric Inventory Questionnaire; QDRS, Quick Dementia Rating System. Porsteinsson AP, et al. J Prev Alzheimers Dis. 2021;8:371-86.



MRI

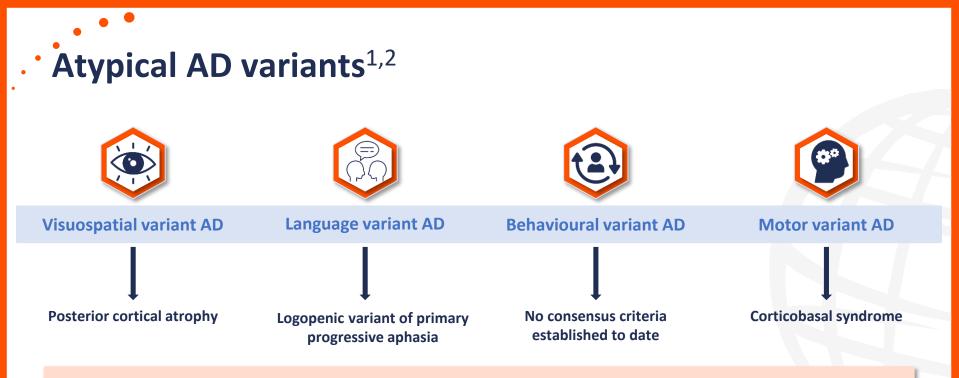
**FDG-PET\*** 

### **Application of the ATN disease progression model**



AD, Alzheimer's disease; ATN, amyloid/tau/neurodegeneration; CI, cognitive impairment. 1. Dodich A, et al. *Eur J Nucl Med Mol Imaging*. 2020;47:247–55; 2. Jack CR Jr, et al. *Alzheimers Dement*. 2018;14:535–62; 3. Tan MS, et al. *Alzheimers Res Ther*. 2020;12:55.

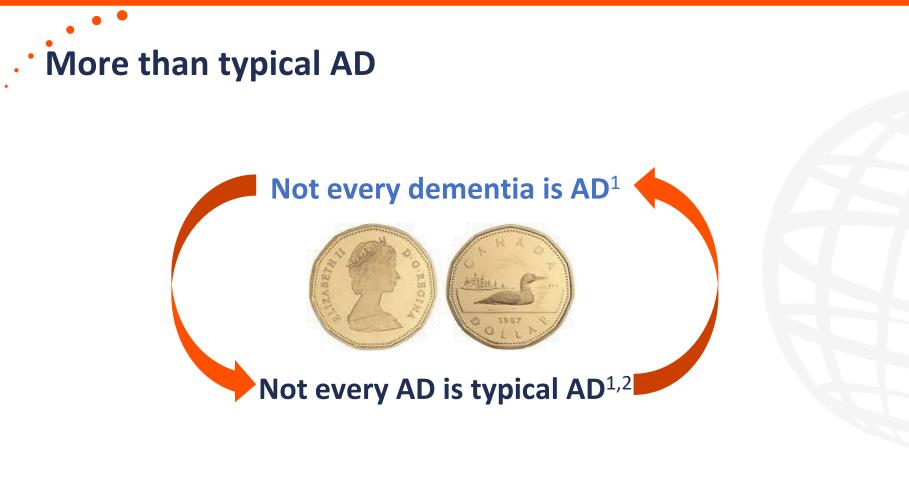




#### Several atypical AD variants exist based on clinical symptoms and neuroanatomical distribution of pathology<sup>2</sup>



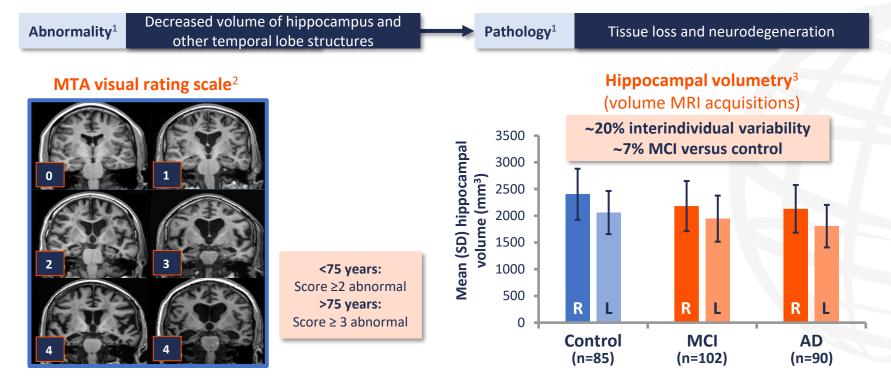








### Magnetic resonance imaging



AD, Alzheimer's disease; L, left hippocampus; MCI, mild cognitive impairment; MRI, magnetic resonance imaging; MTA, medial temporal lobe atrophy; R, right hippocampus; SD, standard deviation.

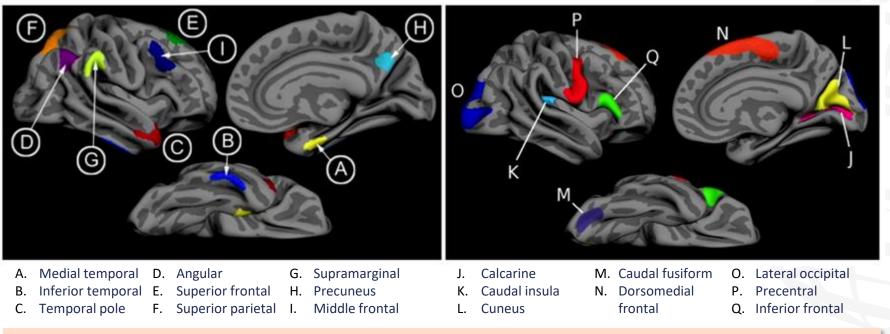
1. Frisoni GB, et al. *Lancet Neurol*. 2017;16:661–76; 2. Radiology Assistant. Available at: <u>https://radiologyassistant.nl/neuroradiology/dementia/role-of-mri#mr-protocol</u> (accessed 15 September 2023); 3. Frankó, E, et al. *PLoS One*. 2013;8:e71354.





**Cortical signature of AD** 

#### **Cortical signature of normal ageing**

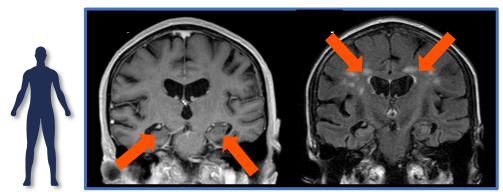


AD is characterized by atrophy patterns not limited to the hippocampus

Figures reproduced from Dickerson BC, et al. *Front Aging Neurosci*. 2013;5:55 (CC BY). AD, Alzheimer's disease. Dickerson BC, et al. *Front Aging Neurosci*. 2013;5:55.



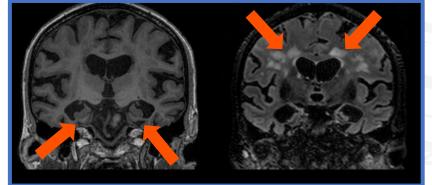
## • Mixed AD type and vascular diseases



77 years old

5 years later

82 years old





AD, Alzheimer's disease. Image courtesy of Haller S. Personal communication 2023. Interaction of AD and vascular pathology

### SUPRA-ADDITIVE EFFECTS 1 + 1 > 2

The combined effect of both vascular and neurodegenerative pathological processes is more pronounced than the simple linear addition of the two effects

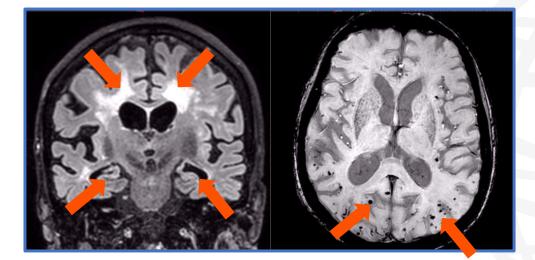


AD, Alzheimer's disease. Haller S, Barkhof F. *Radiology*. 2017;282:311–3.

### Mixed pathology: Cerebral amyloid angiopathy and AD



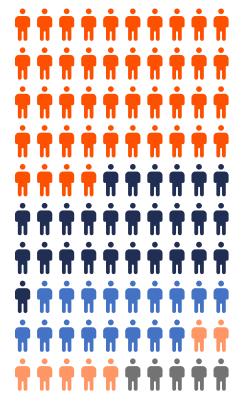
82-year-old female with cognitive decline





AD, Alzheimer's disease. Image courtesy of Haller S. Personal communication 2023.

### • Heterogenous pathology of AD



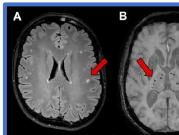
AD (44%)

- AD + vascular dementia (27%)
- AD + Lewy body disease (17%)
- AD + vascular dementia + Lewy body disease (7%)
- **Other (5%)**
- AD + tau (1.7%)
- AD + hippocampal sclerosis (0.5%)
- AD + vascular dementia + tau (0.8%)
- AD + vascular dementia + hippocampal sclerosis (0.6%)
- AD + Lewy body disease + tau (0.6%)
- AD + Lewy body disease + hippocampal sclerosis (0.2%)
- AD + Lewy body disease + vascular dementia + hippocampal sclerosis (0.5%)
- AD + Lewy body disease + vascular dementia + tau (0.2%)



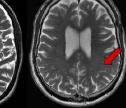
AD, Alzheimer's disease. Rabinovici GD, et al. *Alzheimers Dement (N Y*). 2016;3:83–91.

### MRI markers of cerebrovascular disease





État Criblé



White Matter Hyperintensities

**Strategic** 

Lacunes

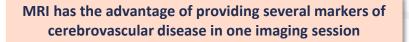
Microbleeds

**Cortical Microinfarcts** 

Enlarged perivascular spaces

Hippocampal

Microinfarcts

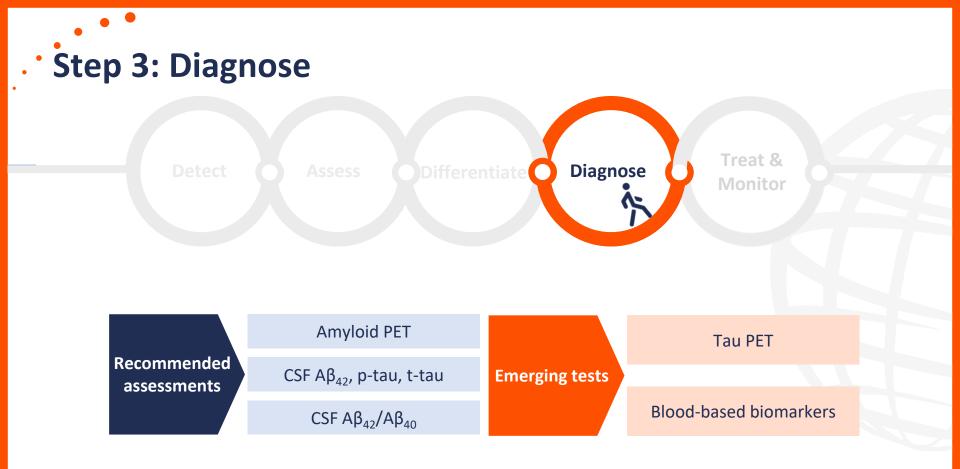


However, an individual case may have various MRI markers of cerebrovascular disease and therefore it can be difficult to decide what burden of vascular disease contributes to cognitive impairment

Consequently, there is a large variability in the radiologic reporting of the various MRI markers of cerebrovascular disease



MRI, magnetic resonance imaging. Haller S, et al. *Radiology*. 2023;308:e230173.



Aβ, amyloid beta; CSF, cerebrospinal fluid; p-tau, phosphorylated-tau; PET, positron emission tomography; t-tau, total-tau. Porsteinsson AP, et al. *J Prev Alzheimers Dis*. 2021;8:371–86.

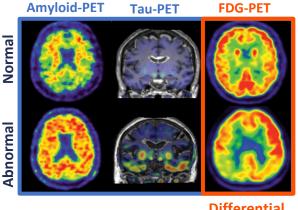


### **Multiparametric imaging for AD: FDG-PET**

**Abnormality**<sup>1</sup>

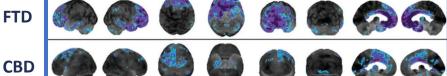
Decreased uptake in posterior cingulateprecuneus and temporoparietal cortex

#### PET imaging biomarkers<sup>2</sup>



Differential diagnosis<sup>2</sup>

Glucose hypometabolism and Pathology<sup>1</sup> neurodegeneration Brain FDG-PET patterns of hypometabolism seen in various neurodegenerative disorders<sup>3</sup> DLB



FDG-PET is useful in differentiating between various types of primary dementia<sup>3</sup>

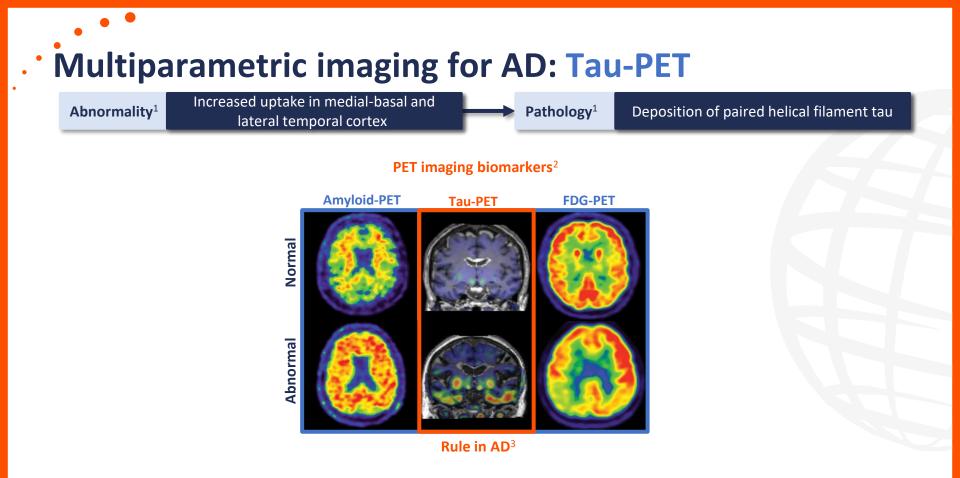
AD, Alzheimer's disease; CBD, corticobasal degeneration; DLB, dementia with Lewy bodies; FDG, fluorodeoxyglucose; FTD, frontotemporal dementia; PCA, posterior cerebral atrophy; PET, positron emission tomography.

**PCA** 

AD

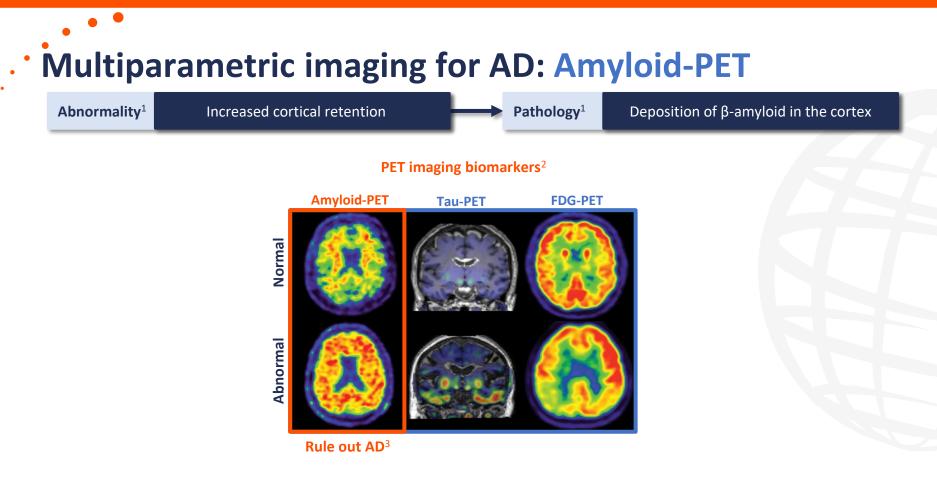
1. Frisoni GB, et al. Lancet Neurol. 2017;16:661–76; 2. Kate MT, et al. Alzheimers Res Ther. 2018;10:112; 3. Brown RKJ, et al. Radiographics. 2014;34:684–701.





AD, Alzheimer's disease; FDG, fluorodeoxyglucose; PET, positron emission tomography. 1. Ossenkoppele R, et al. *JAMA*. 2018;320:1151–62; 2. ten Kate M, et al. *Alzheimers Res Ther*. 2018;10:112; 3. Haller S, et al. *Radiology*. 2023;308:e230173.





AD, Alzheimer's disease; FDG, fluorodeoxyglucose; PET, positron emission tomography.
1. Frisoni GB, et al. Lancet Neurol. 2017;16:661–76; 2. ten Kate M, et al. Alzheimers Res Ther. 2018;10:112; 3. Haller S, et al. Radiology. 2023;308:e230173.

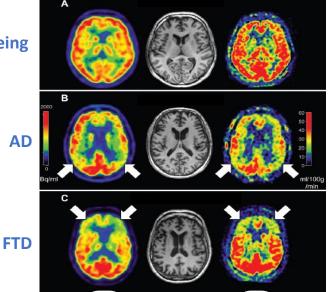


### • Artificial spin labelling MRI

FDG

#### **Transverse FDG and ASL images**

**Normal ageing** 



ASL MRI is used to assess cerebral blood flow non-invasively by magnetically labelling inflowing blood

ASL pattern is remarkably similar to the pattern of the hypometabolism seen with FDG-PET

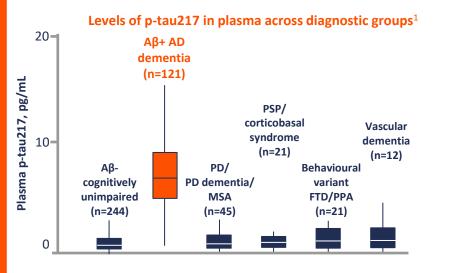
Image reproduced with permission from Haller S, et al. *Radiology*. 2016;281:337–56; © Radiological Society of North America, 2016. AD, Alzheimer's disease; ASL, artificial spin labelling; FDG, fluorodeoxyglucose; FTD, frontotemporal dementia; MRI, magnetic resonance imaging; PET, positive emission tomography. Haller S, et al. *Radiology*. 2016;281:337–56.

**ASL** 

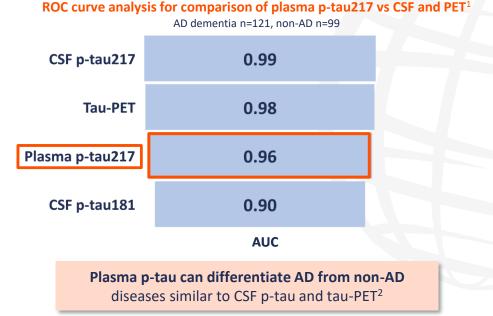


### Plasma p-tau217 vs CSF and tau-PET biomarkers

Discriminative accuracy of plasma p-tau217 for AD vs other neurodegenerative diseases in the BioFINDER-2 Study<sup>1</sup>



Plasma p-tau217 levels are increased by 300–700% in symptomatic AD<sup>2</sup>



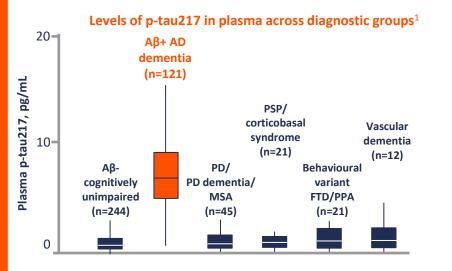
AD dementia vs other neurodegenerative diseases:

Aβ, amyloid-beta; AD, Alzheimer's disease; AUC, area under curve; CSF, cerebrospinal fluid; FTD, frontotemporal dementia; MSA, multiple system atrophy; PD, Parkinson's disease; PET, positron emission tomography; PPA, primary progressive aphasia; PSP, progressive supranuclear palsy; p-tau, phosphorylated tau; ROC, receiver operating characteristic. 1. Palmqvist S, et al. *JAMA*. 2020;32:772–81; 2. Angioni D, et al. *J Prev Alzheimers Dis*. 2022;9:569–79.

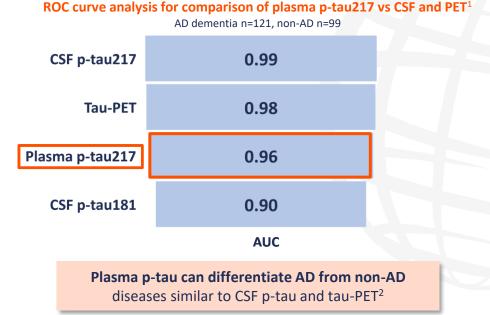


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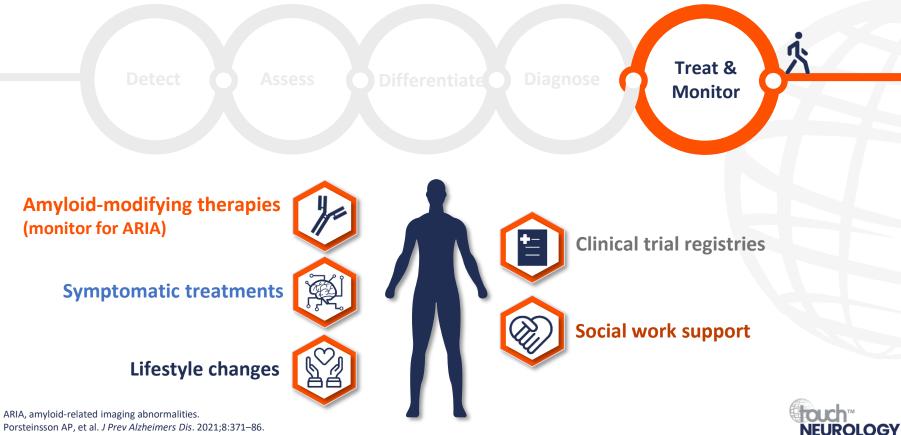
# Advantages and limitations of current AD biomarkers

	MODALITY	ADVANTAGES	DISADVANTAGES	
	MRI	<ul> <li>Measures cerebral atrophy<sup>1</sup></li> <li>Measures vascular markers<sup>2</sup></li> <li>Measures brain function (ASL)<sup>3</sup></li> <li>Information on non-AD pathology<sup>2</sup></li> </ul>	<ul> <li>Relatively late event (compared with CSF and PET measures)<sup>1</sup></li> <li>Cannot directly detect core pathophysiological features (Aβ, tau)<sup>1</sup></li> </ul>	
	Amyloid/tau PET	<ul> <li>High accuracy for AD diagnosis<sup>4</sup></li> <li>Suitable for patients with contraindications to lumbar puncture<sup>4</sup></li> </ul>	<ul> <li>Expensive<sup>1,4,5</sup></li> <li>Limited availability<sup>1,4</sup></li> <li>Uses radiation<sup>4,5</sup></li> <li>Abnormal also in other conditions<sup>6</sup></li> </ul>	
MAK MAK MAK	CSF	<ul> <li>High accuracy for AD diagnosis<sup>4</sup></li> <li>Relatively inexpensive<sup>4</sup></li> <li>Enables analyses of inflammation, tau pathology and neurodegeneration<sup>4</sup></li> </ul>	<ul> <li>Invasive<sup>1,4,7</sup></li> <li>Reluctance around lumbar puncture<sup>5</sup></li> </ul>	
	Blood	<ul> <li>Accessible/cost effective<sup>8</sup></li> <li>Less invasive than CSF<sup>8</sup></li> <li>Easily repeated measurements over time<sup>8</sup></li> </ul>	<ul> <li>No localization<sup>8</sup></li> <li>Additional validation required to confirm accuracy<sup>8</sup></li> </ul>	

Aβ, amyloid-beta; AD, Alzheimer's disease; ASL, artificial spin labelling; CSF, cerebrospinal fluid; MRI, magnetic resonance imaging; PET, positron emission tomography. 1. Baird AL, et al. *Front Neurol*. 2015;16:236; 2. Frisoni GB, et al. *Nat Rev Neurol*. 2010;6:67–77; 3. Haller S, et al. *Radiology*. 2016; 281:337; 4. Hardy-Sosa A, et al. *Front Aging Neurosci*. 2022;14:683689; 5. Porsteinsson AP, et al. *J Prev Alzheimers Dis*. 2021;8:371–86; 6. Chapleau M, et al. *J Nucl Med*. 2022;63:13S–19S; 7. Luebke M, et al. *Biomark Neuropsychiatry*. 2023;8:100062; 8. Hampel H, et al. *Nat Aging*. 2022;2:692–703.







touchIME

# Collaborative patient-centred care across the AD continuum o\_\_\_\_





Dr Ronan Factora Cleveland clinic, Cleveland, OH, USA



#### • HCPs involved across the patient's AD journey<sup>1-4</sup> **Nurse practitioner** Geriatrician **Psychiatrist** Family/caregiver Neurologist **Social worker** 5~5 Treat & Differentiate Detect Diagnose Assess **Monitor** Occupational Clinical Speech & language Dietician **Psychologist** Primary care neuroradiologist physician therapist therapist

AD, Alzheimer's disease; HCP, healthcare professional.

1. Grand JH, et al. J Multidiscip Healthc. 2011;4:125–47; 2. Ellison JM. 2021. Available at: www.brightfocus.org/alzheimers/article/understanding-health-care-team-alzheimersdisease (accessed 29 September 2023); 3. Galvin JE, et al. Front Neurol. 2021;11:592302; 4. Rowley PA, et al. Semin Ultrasound CT MR. 2020;41:572–83.



# Role of HCPs across the AD continuum

•	Detect	Assess and differentiate	Diagnose	Treat and monitor
Non-dementia trained HCP	Cognitive impairment Family history Quick memory test	-           		
Dementia trained HCP	Cognitive impairment Family history Quick memory test	Genetic test In-depth cognitive test		<ul> <li>Initiation of treatment</li> <li>Adverse events reporting</li> <li>Monitoring MRI/vital signs</li> <li>Quick memory test</li> </ul>
Dementia specialist		Genetic test In-depth cognitive test Differential diagnosis	AD pathology Communicate diagnosis Select treatment	<ul> <li>Initiation of treatment</li> <li>Adverse events reporting</li> <li>Monitoring MRI/vital signs</li> <li>Quick memory test</li> </ul>

(TOUCH

NEUROLOGY

AD, Alzheimer's disease; HCP, healthcare professional; MRI, magnetic resonance imaging. Galvin JE, et al. *Front Neurol*. 2021;11:592302.



1. Grand JH, et al. J Multidiscip Healthc. 2011;4:125–47; 2. Ellison JM. 2021. Available at: <a href="http://www.brightfocus.org/alzheimers/article/understanding-health-care-team-alzheimers-disease">www.brightfocus.org/alzheimers/article/understanding-health-care-team-alzheimers-disease</a> (accessed 29 September 2023).



# Fundamentals of patient-centred care

Detection and diagnosis<sup>1</sup>





Transitions and coordination of services<sup>1</sup>

Staffing<sup>1</sup>

"Person-centered care is a philosophy of care built around the needs of the individual and contingent upon knowing the unique individual through an interpersonal relationship"<sup>2</sup>



Medical management<sup>1</sup>



Information, education and support<sup>1</sup>

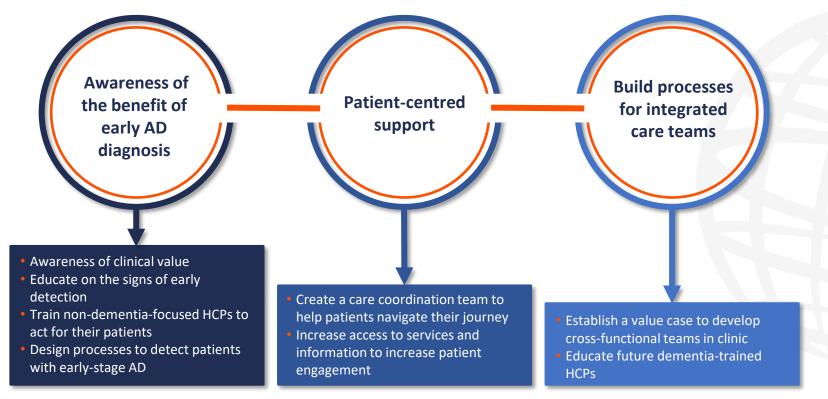
Therapeutic environment and safety<sup>1</sup>

**Ongoing care**<sup>1</sup>



1. Fazio S, et al. Gerontologist. 2018;58:S1-9; 2. Fazio S, et al. Gerontologist. 2018;58:S10-9.

### • Focus areas to improve AD care



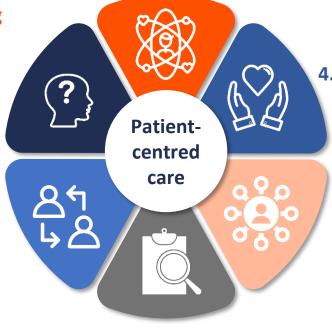


### **Recommendations for patient-centred care**

**1.** Know the person living with dementia

2. Recognize and accept the person's reality

3. Identify and support opportunities for meaningful engagement

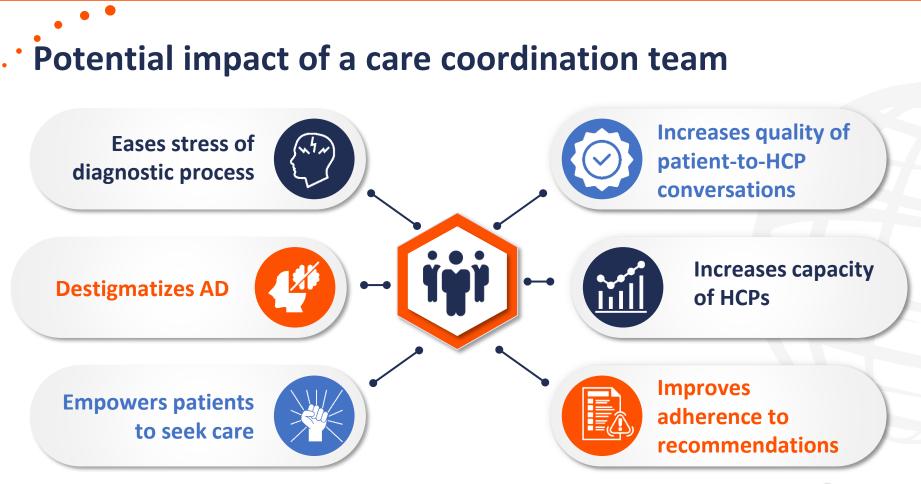


4. Build and nurture authentic, caring relationships

> 5. Create and maintain a supportive community for all individuals

6. Evaluate care practices regularly and make appropriate changes





AD, Alzheimer's disease; HCP, healthcare professional. Galvin JE, et al. *Front Neurol*. 2021;11:592302.



# Patient education on anti-amyloid therapies for AD

#### Alignment of care goals



AIMS	CAVEATS			
<ul> <li>Intervene at early symptomatic stages</li> <li>Remove brain amyloid-beta plaques</li> <li>Slow disease-related cognitive decline</li> <li>Are they</li> </ul>				
	able? ALTERNATIVES			
<ul> <li>High test and visit burden</li> <li>Potentially high financial costs</li> <li>Infusion reactions</li> <li>Brain swelling or bleeding (ARIA)</li> </ul>	<ul> <li>Existing oral medications</li> <li>Lifestyle modifications</li> <li>Future approved drugs</li> <li>Clinical trials</li> </ul>			

**Potential patient tool** 

AD, Alzheimer's disease; ARIA, amyloid-related imaging abnormalities; HCP, healthcare professional. Ramanan VK, et al. *Neurology*. 2023;10:10.1212/WNL.000000000207757. Online ahead of print.

