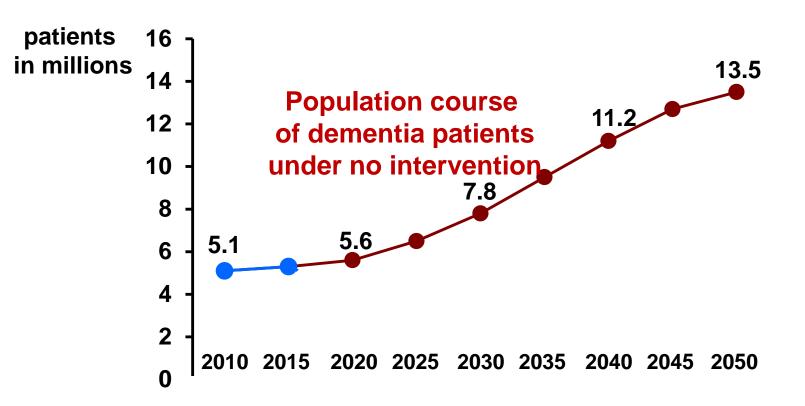
TOPICS-2: Scientific approach to the dementia prevention and care

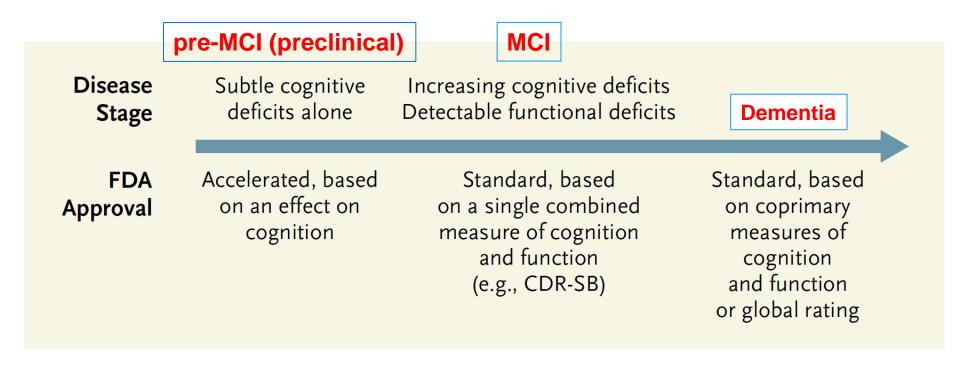
# Efficient prevention of dementia based on medical evidence and an financial view

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### A 5-yr delay of disease onset result in a big reduction of AD patients.



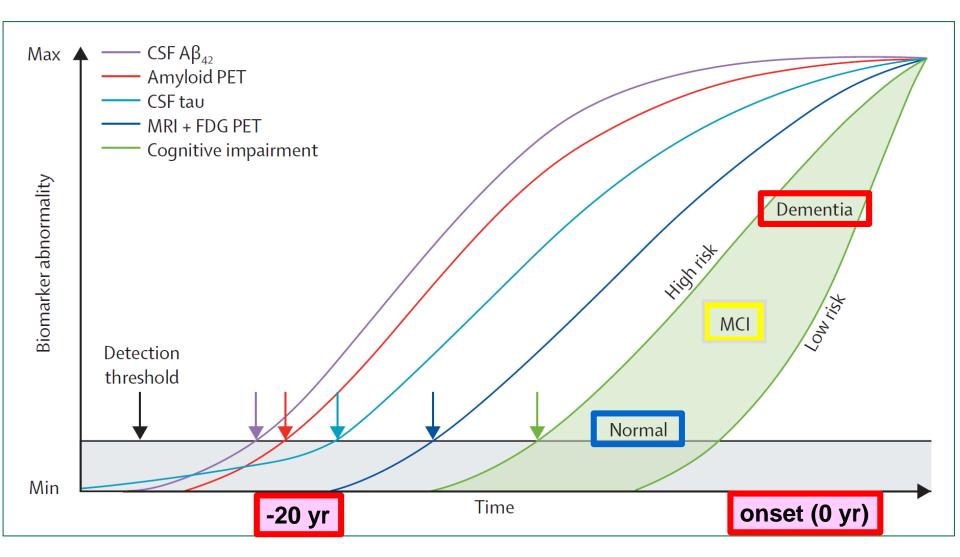
#### From cure to prevention of dementia



The US-FDA has developed guidance for the design and execution of clinical trials involving patients who do not present with dementia.

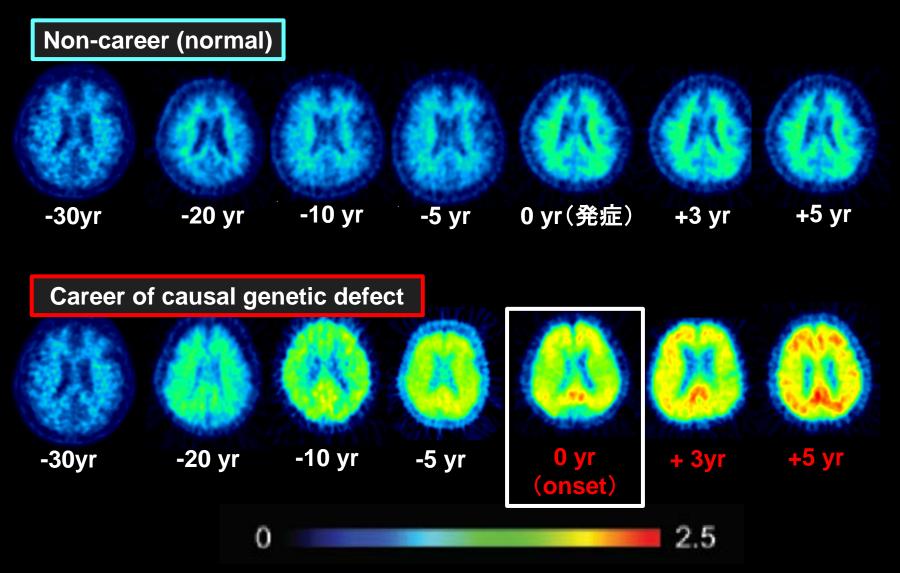
from Kozauer N and Katz R., New Engl J Med 2013; 368: 1169.

#### Revised model from ADNI & DIAN studies



Petersen RC (2010) Lancet neurol 9: 4-5.; Juck Jr, C. et al (2013) Lancet neurol 12: 207–16. Bateman RJ (2012) N Eng J Med 367: 795-802.

#### A pathological course of amyoid-PET (DIAN)



#### Clinical challenges

Clinical trials	participants	Drugs	Target to	Budgets
	pai ricipanis	(new concepts)	challenge	million US\$
① ADNI project (Weiner M)	200 healthy, 400 MCI, 200 AD Also, Japan running	Observation	<ul><li>1 Cognitive</li><li>state</li><li>2 biomarker</li></ul>	67
2 Anti-Amyloid Treatment of Asymptomatic Alzheimer's (A4) (Sperling R)	1,500 amyloid-PET positive	Solanezmab	<ul><li>1 Cognitive</li><li>state</li><li>2 biomarker</li></ul>	36
4 Dominantly Inherited Alzheimer Network (DIAN, DIAN-TTU) (Morris J, Bateman R)	240 familial AD in US, UK, Germany, Australia Also, Japan just joining	Observation + Solanezmab Gantenezmab One more?	<ul><li>1 Cognitive</li><li>state</li><li>2 biomarker</li></ul>	6
5 Banner project (Reiman E, Tariot P)	1,300 healthy subjects in 60-75yr ApoEs4/4	BACE-I CAD106	Disease onset & more?	45 + more
<ul><li>3 Alzheimer's Prevention</li><li>Initiative (API)</li><li>(Reiman E, Lopera F)</li></ul>	300 familial AD in Colombia, Presenilin-1 E280A	Crenezmab	1 Cognitive state 2 biomarker	116

#### Current situation of dementia in Japan

Dementia: 4,620,000 patients



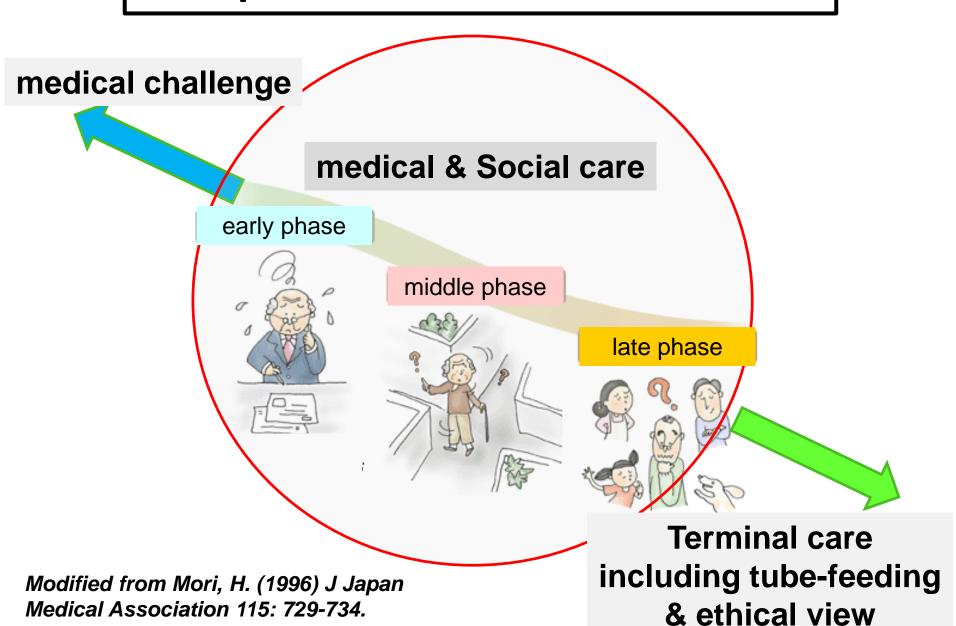
general practitioner: 100,000 doctors

(dementia supporter educated: 3,000 doctors)



Specialists to see dementia authorized by two academic societies (Japan Society of Dementia Research & Japanese Psychogeriatric Society): 1,800 doctors

#### Perspective for dementia science



## Thanks a lot for your attention