



الجمعية السعودية
الخيرية لمرض الزهايمر
SAUDI ALZHEIMER'S DISEASE ASSOCIATION



مؤتمر الزهايمر الدولي الخامس 2023

alz.org.sa



بعدد ١٢ ساعة معتمدة من



الهيئة السعودية للتخصصات الصحية
Saudi Commission for Health Specialties

4-2
فبراير
2023

جامعة الفيصل
(قاعة الأميرة هيا بنت تركي)
الرياض

ألزهايمر .. لممارسات وأولوية صحية

Prevalence of Alzheimer's Disease & Global Impact

Najeeb Qadi, MD MBA

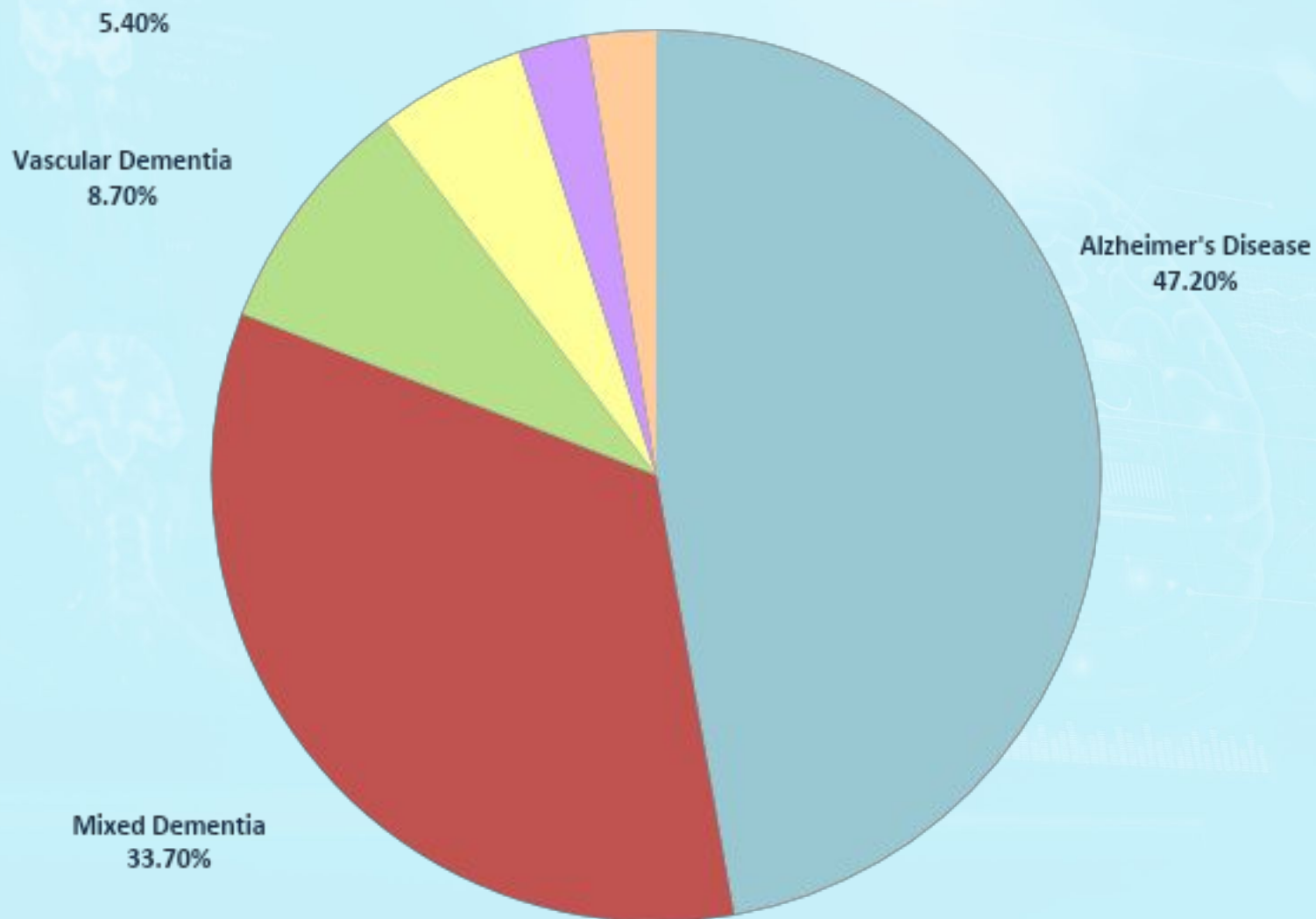
Director, Neuroscience Centre

King Faisal Specialist Hospital & Research Centre - Riyadh

Dementia

- Describes the loss of prior intellectual capacity within a variety of cognitive domains that can include:
 - Memory
 - Language
 - Executive function
 - Visuospatial skills
 - Praxis
- This impairment requires to be sufficiently severe to interfere with daily function

Dementia Subtypes

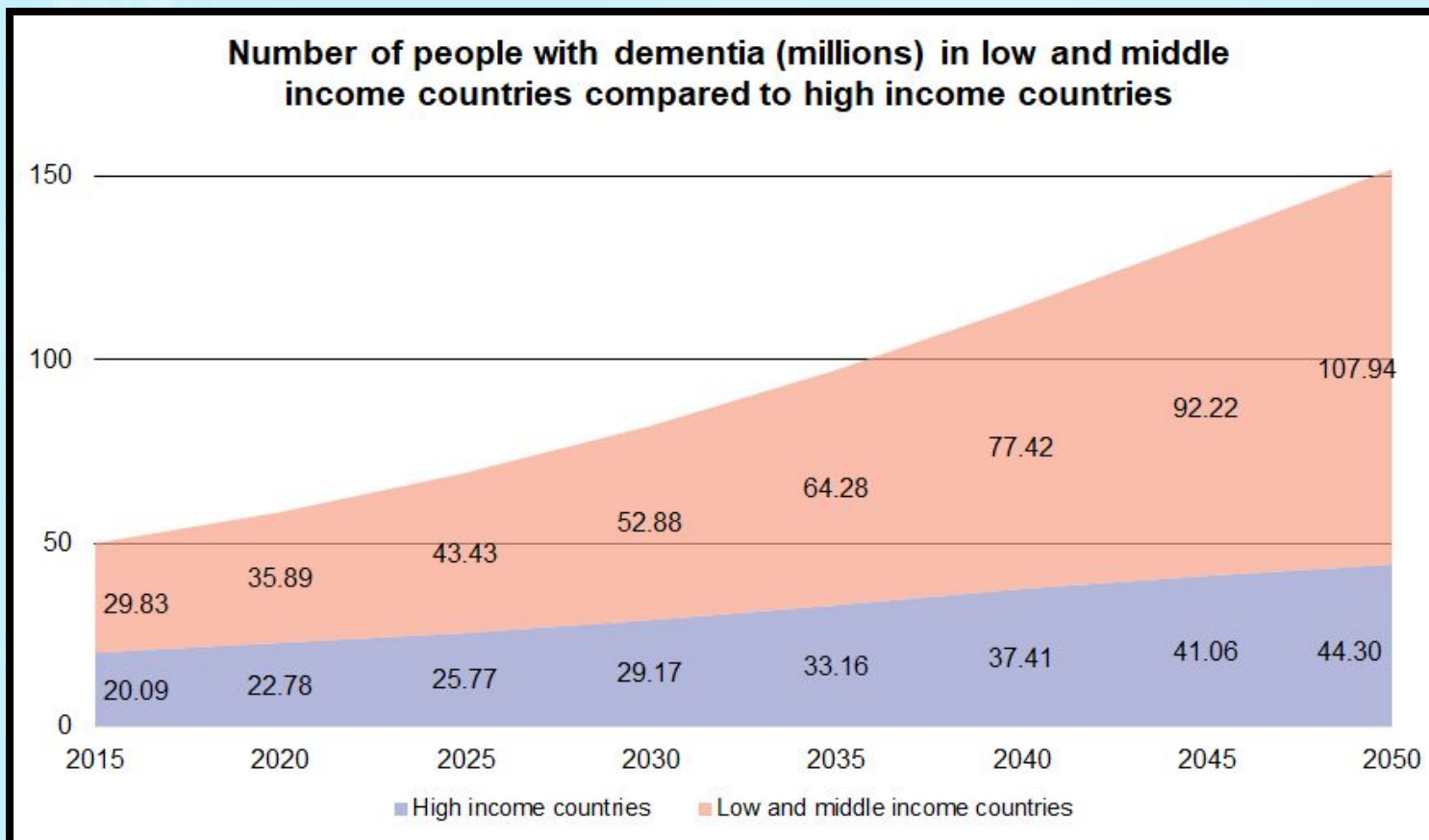


Feldman H et al. Neuroepidemiology. 2003

Global Estimates of Dementia



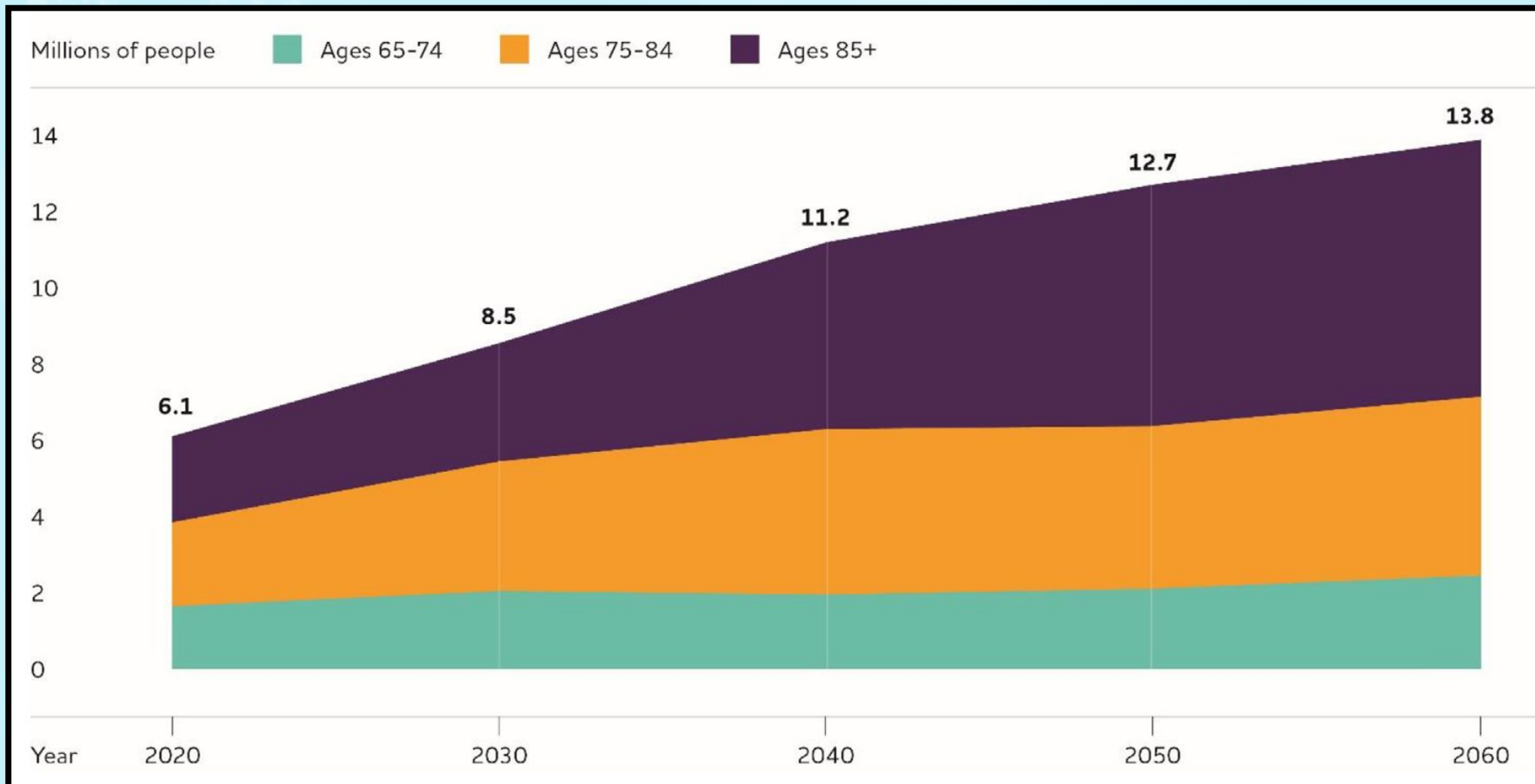
Growth in Dementia Numbers



North Africa / Middle East	2.49	2.99	3.62	4.44	5.52	6.85	8.40	10.10
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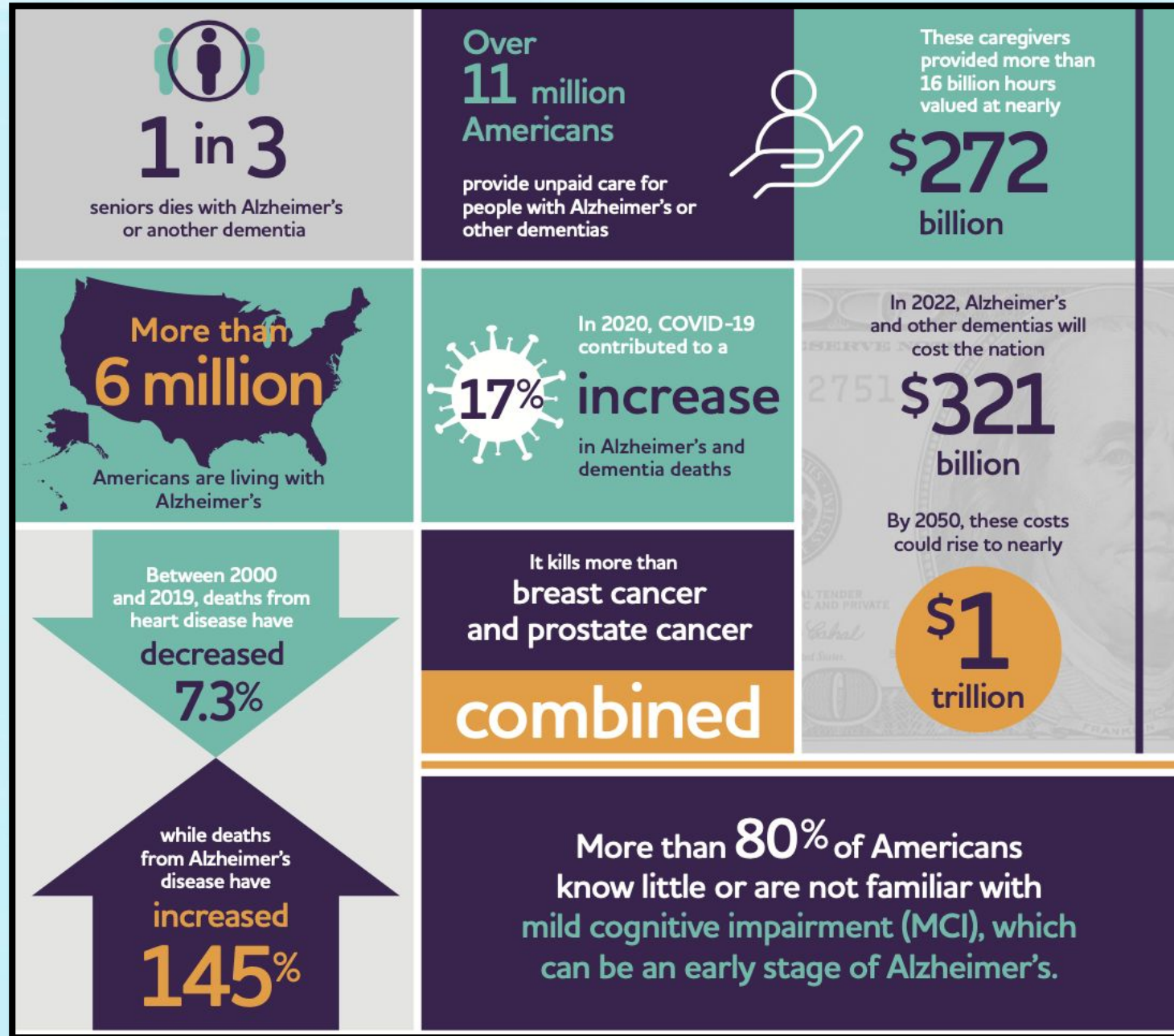
ADI. World Alz Report. 2017

Projected AD Patients in US

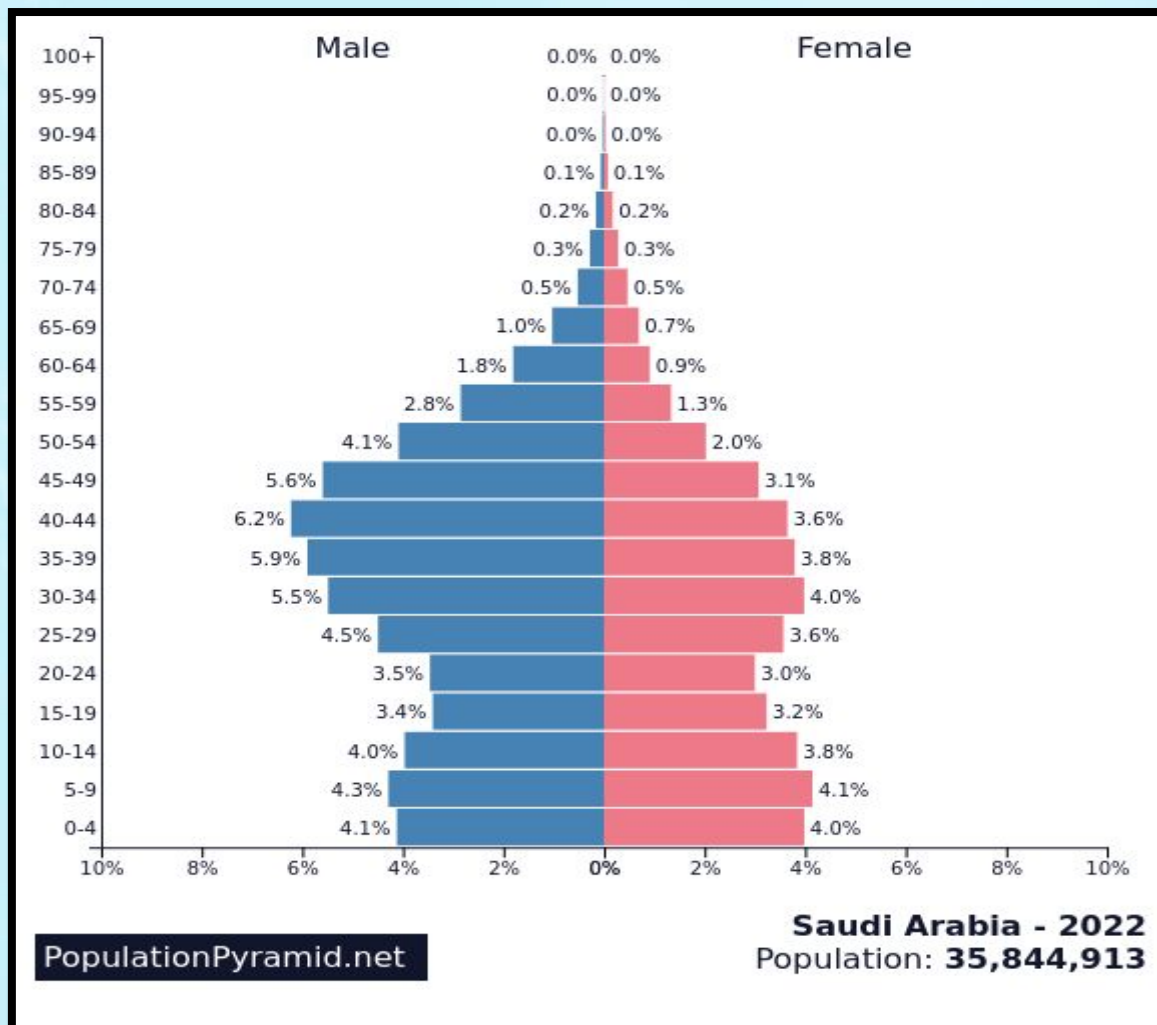


Alz Assoc. Report. *Alzheimers Dement.* 2022

Alzheimer's Disease (AD) Facts & Figures

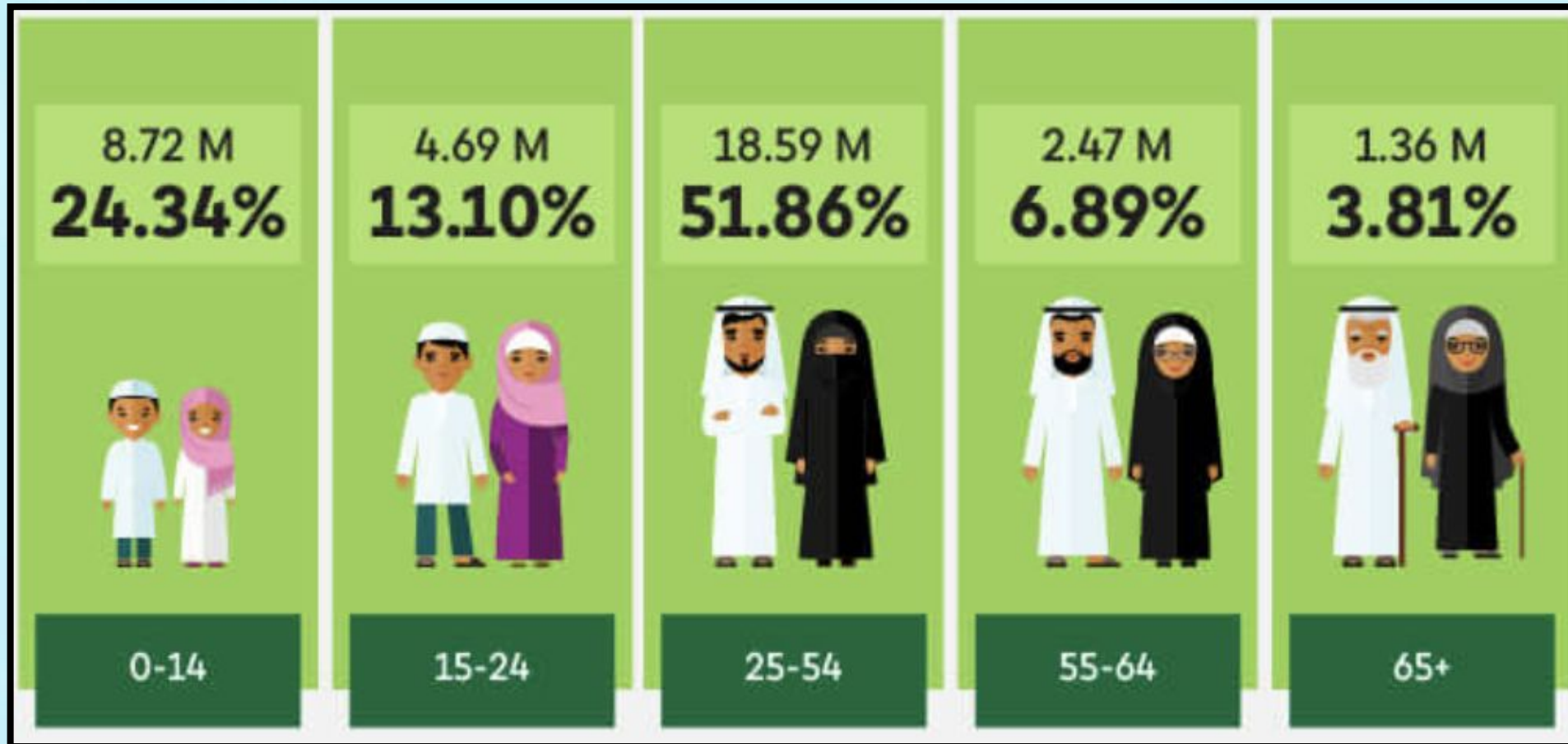


Saudi Statistics

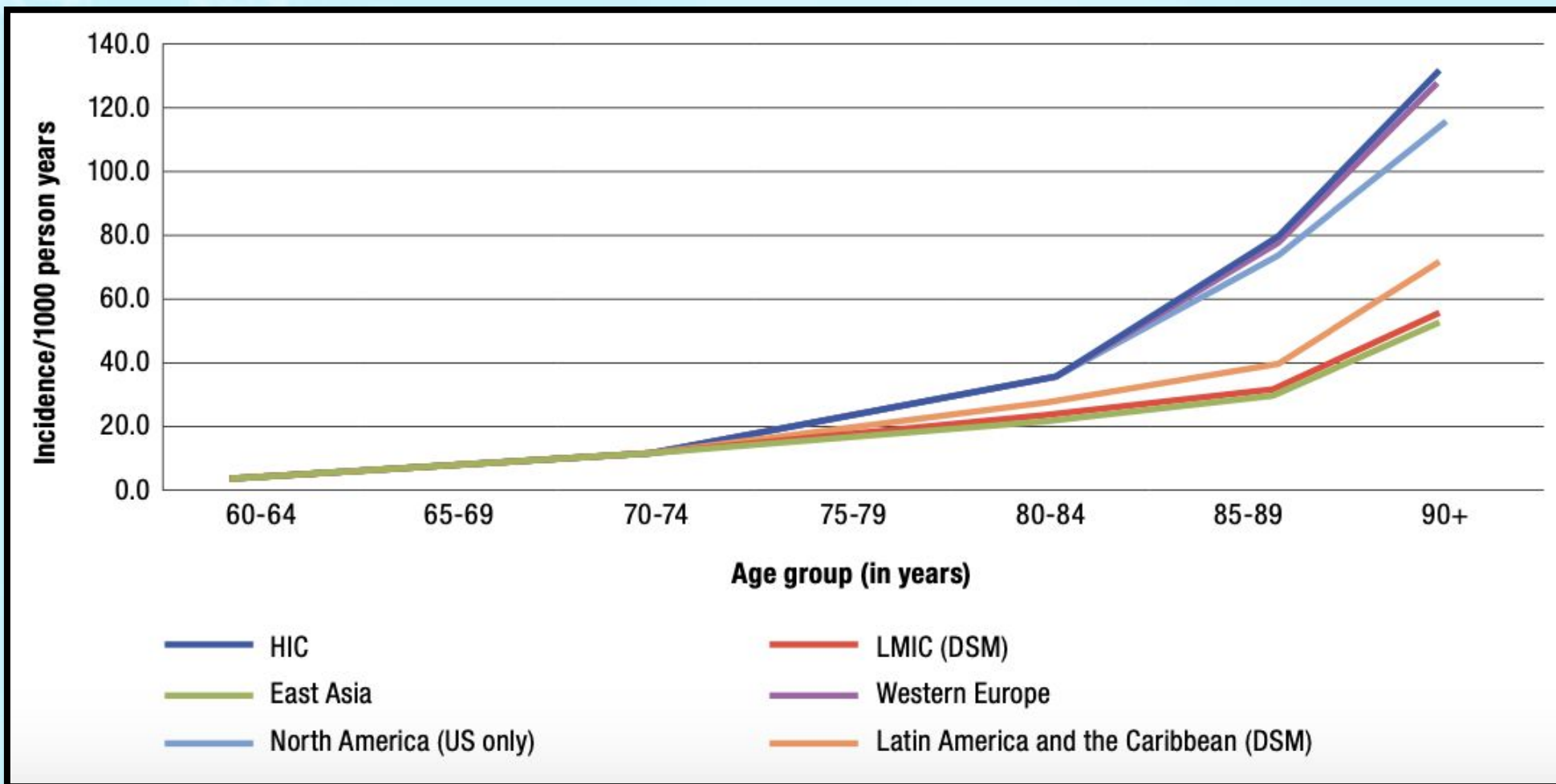


Saudi Statistics

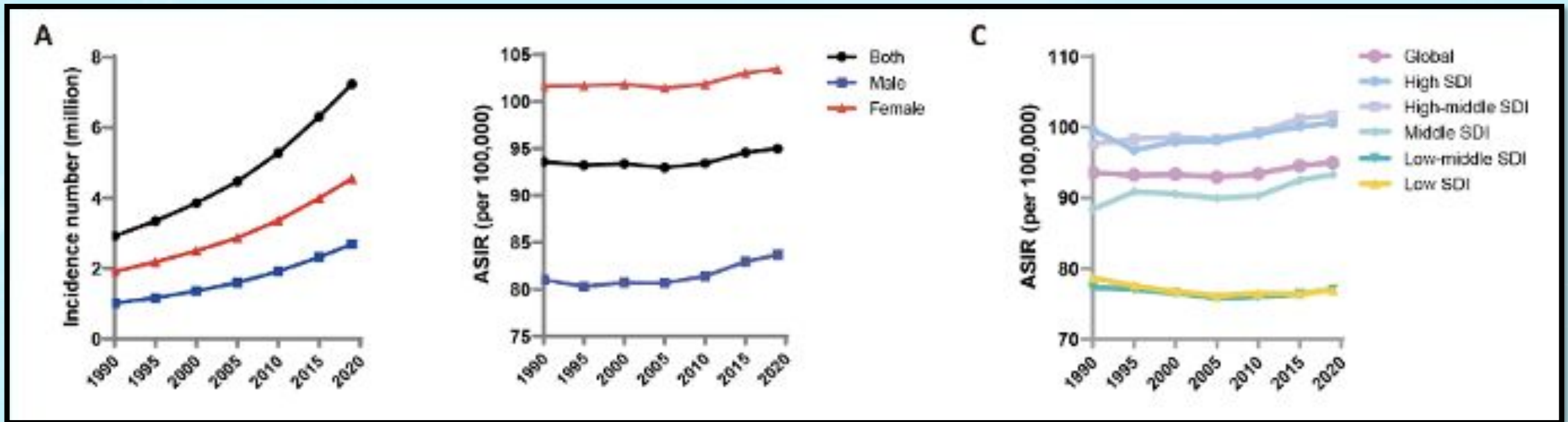
Prevalence of Dementia – 6.4 % in 60 years old and above



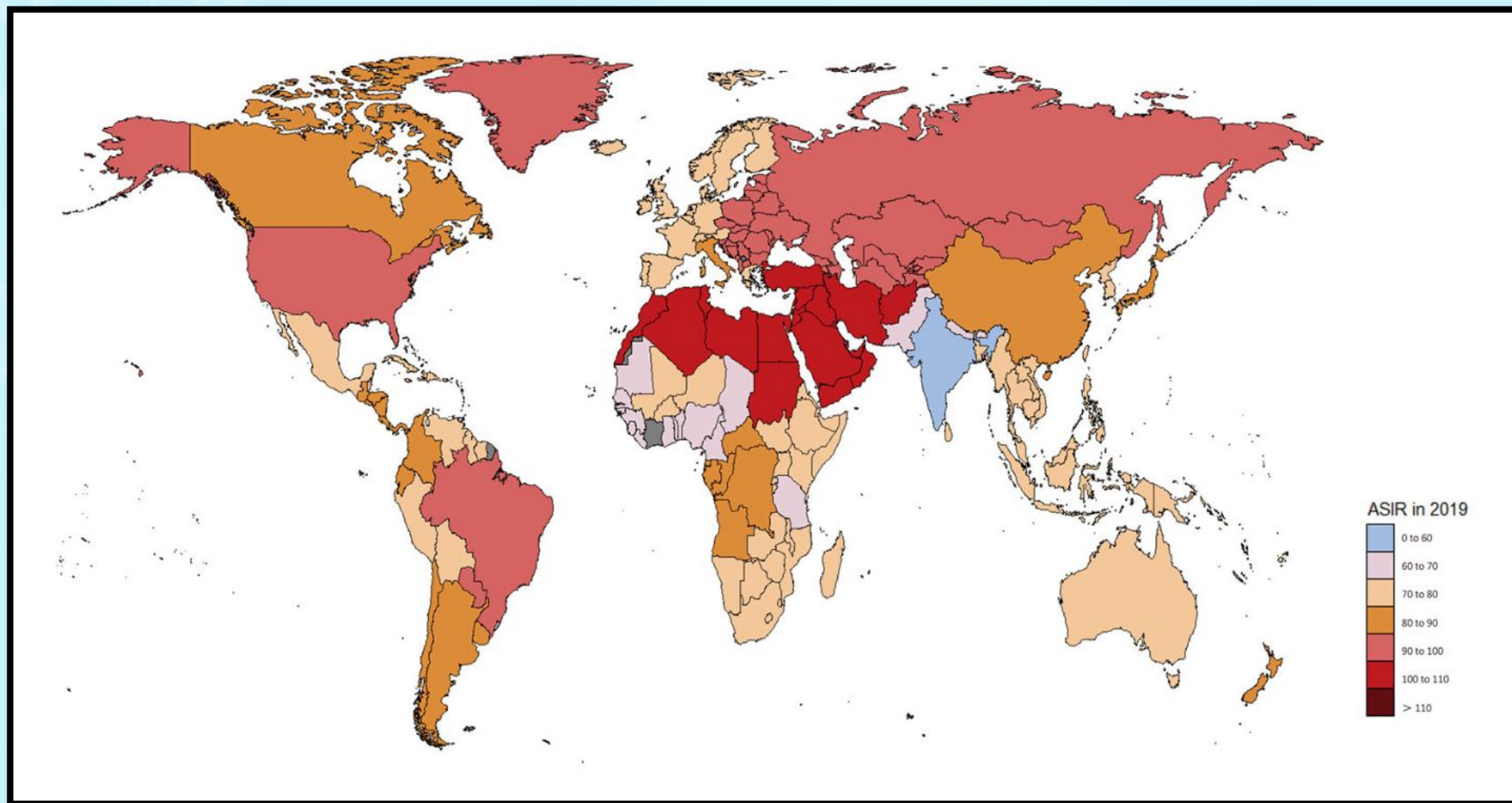
Estimated Incidence of Dementia



Incidence of AD and Other Dementia

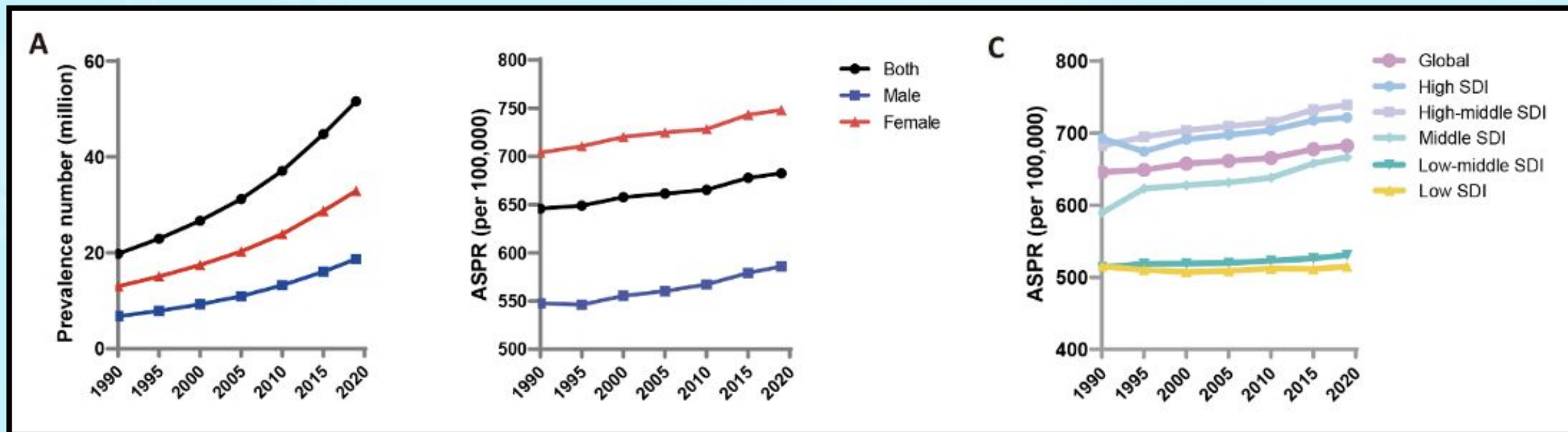


Age-standardized Incidence Rate

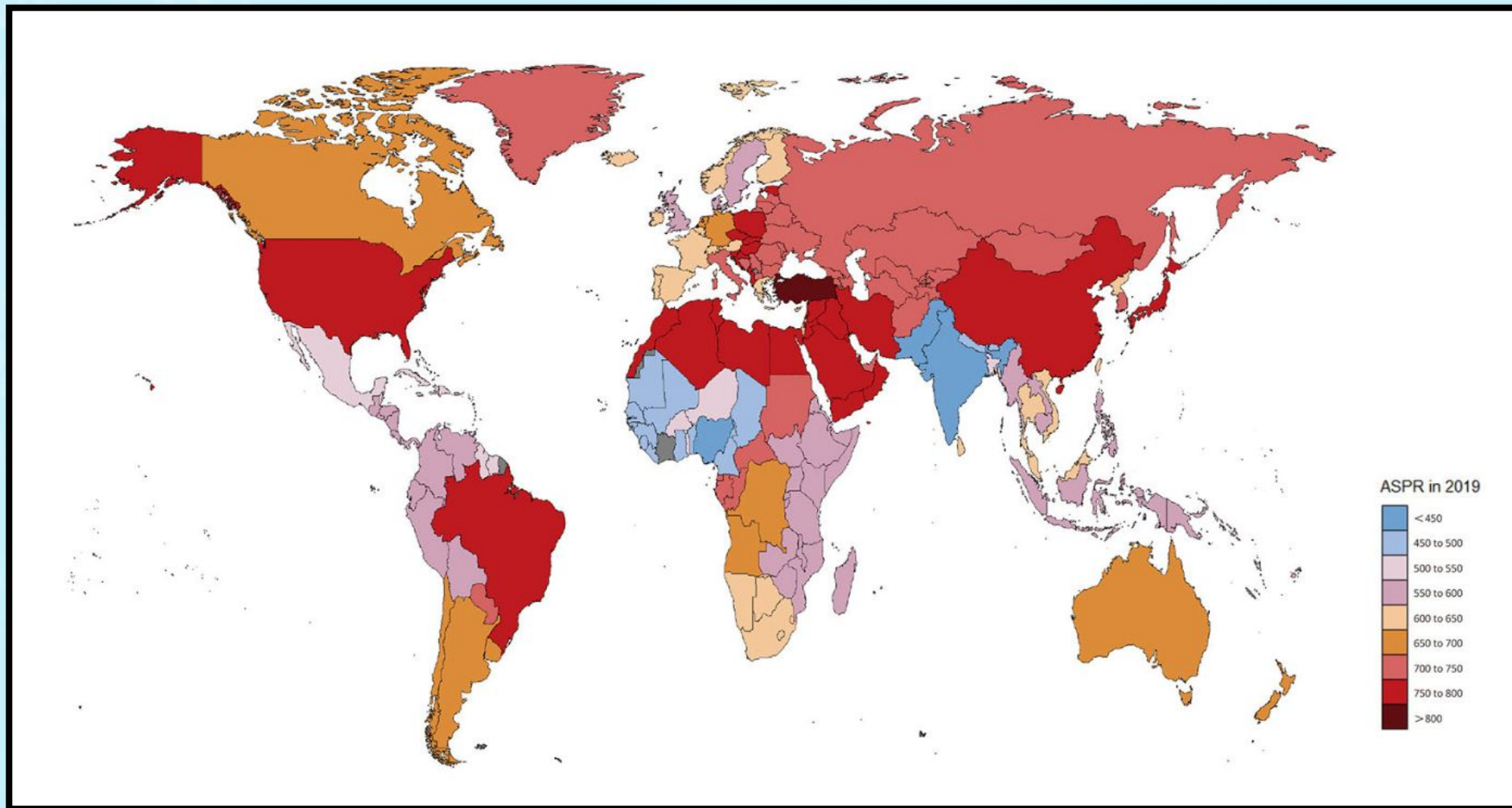


Li X et al, *Front. Aging Neurosci.* 2022

Prevalence of AD and Other Dementia

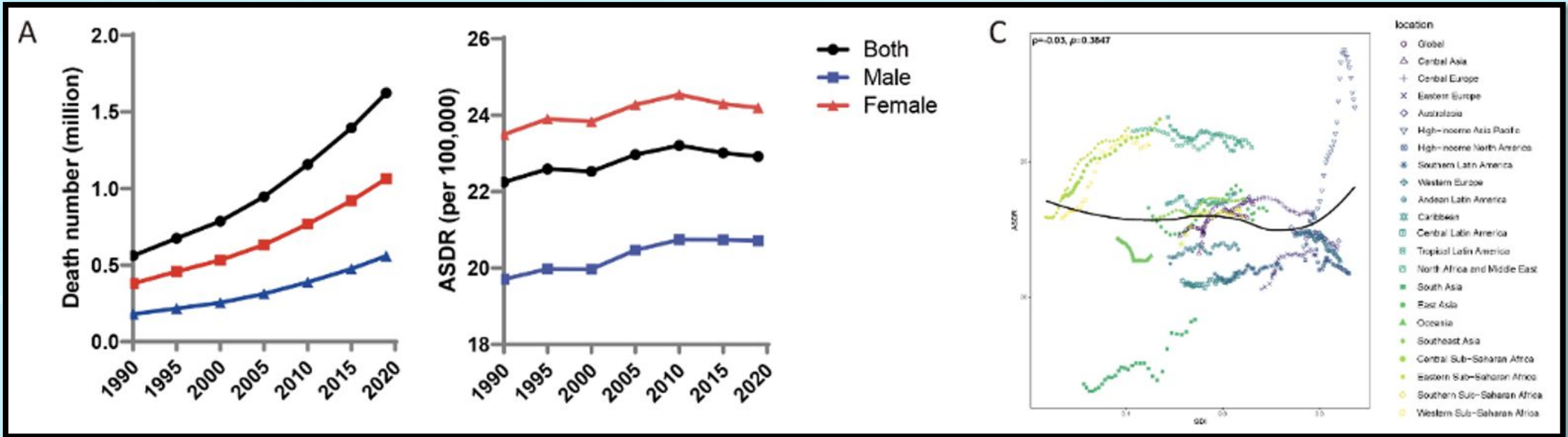


Age-standardized Prevalence Rate

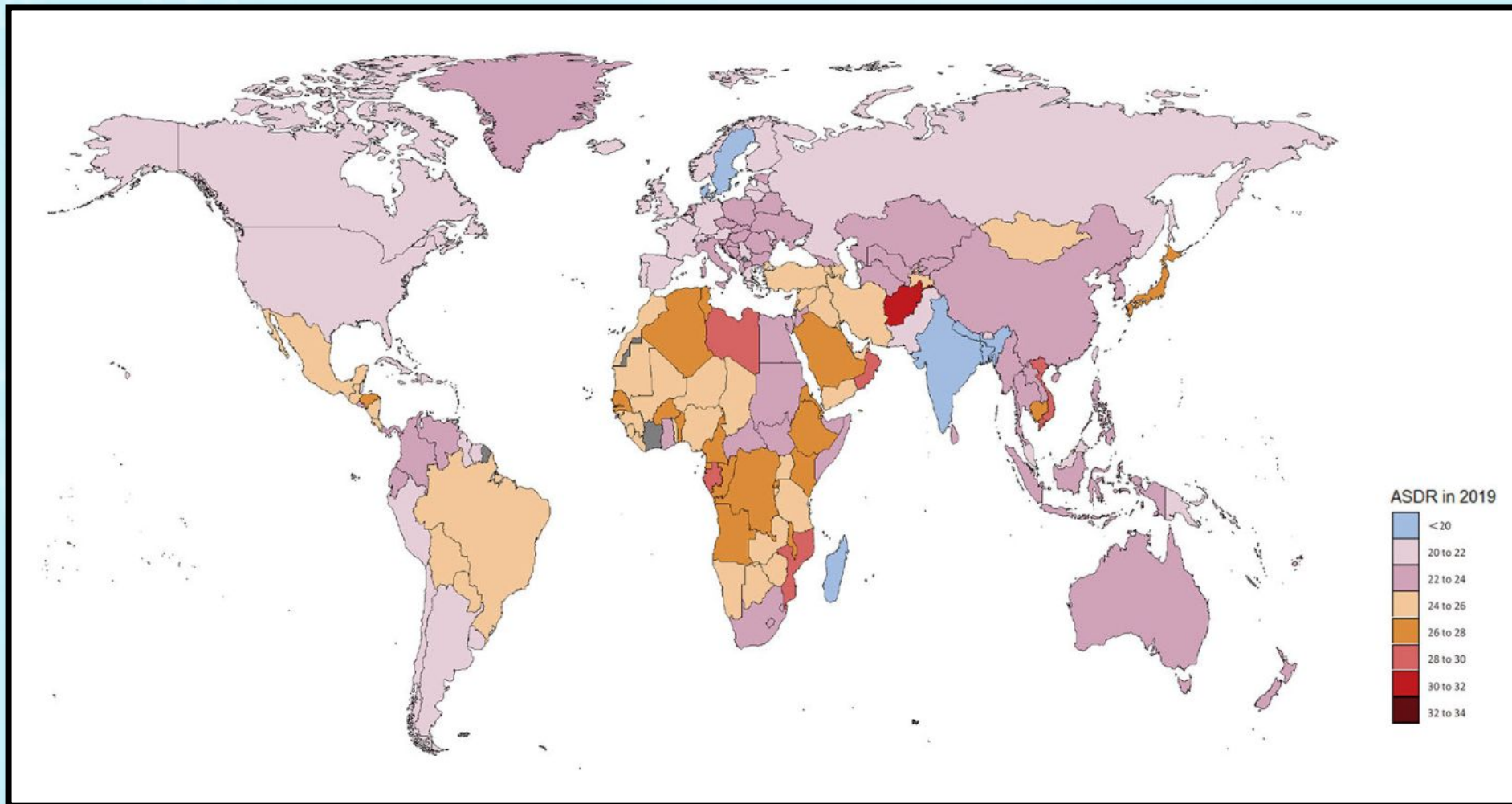


Li X et al, *Front. Aging Neurosci.* 2022

Death No. in AD and Other Dementia

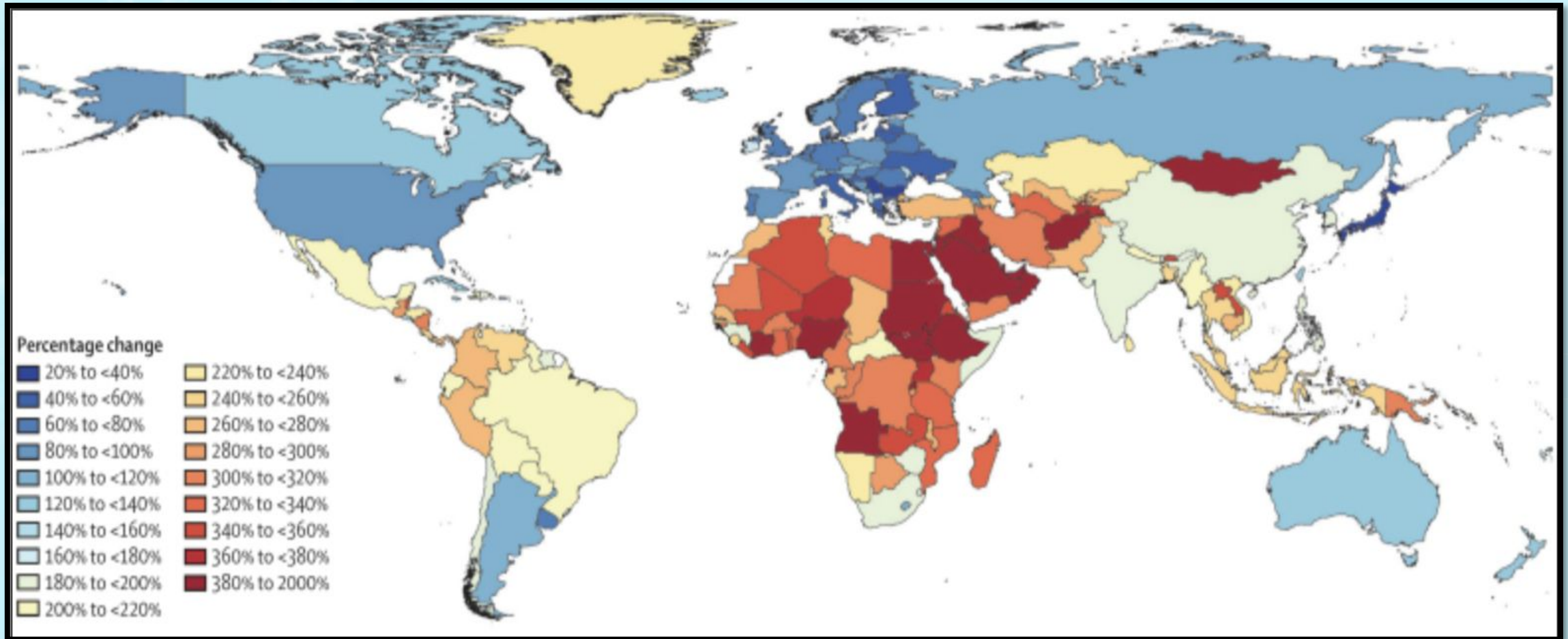


Age-standardized Death Rate



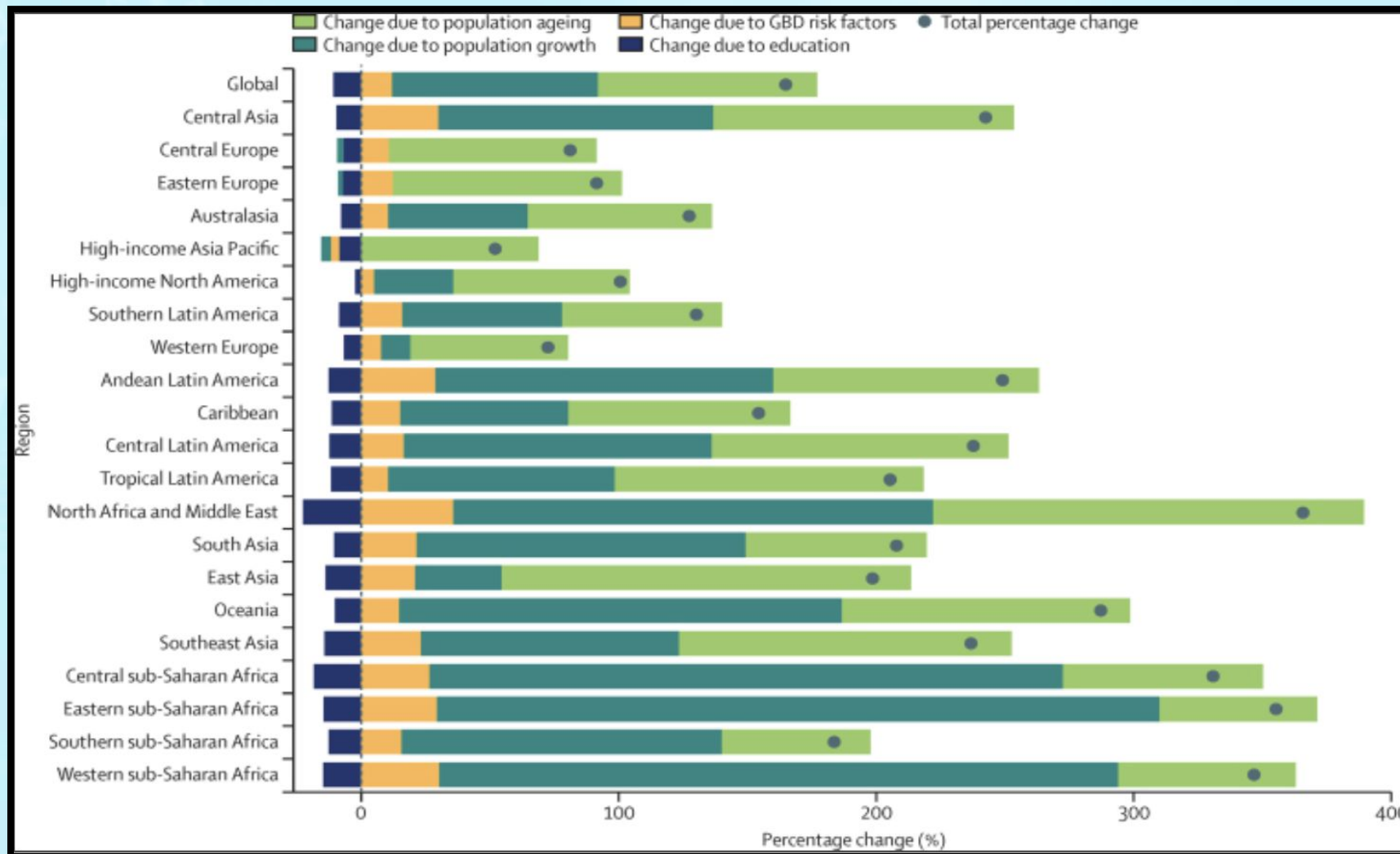
Li X et al, *Front. Aging Neurosci.* 2022

Projected % Change in Dementia



GBD 2019 Dementia Forecasting Collaborators. *Lancet Public Health*. 2022

Projected % Change in Dementia



GBD 2019 Dementia Forecasting Collaborators. *Lancet Public Health*. 2022

Changing Alzheimer Dis. Trajectory

Delayed Onset

If we develop a treatment by 2025 that delays the onset of Alzheimer's by just 5 years...

2015

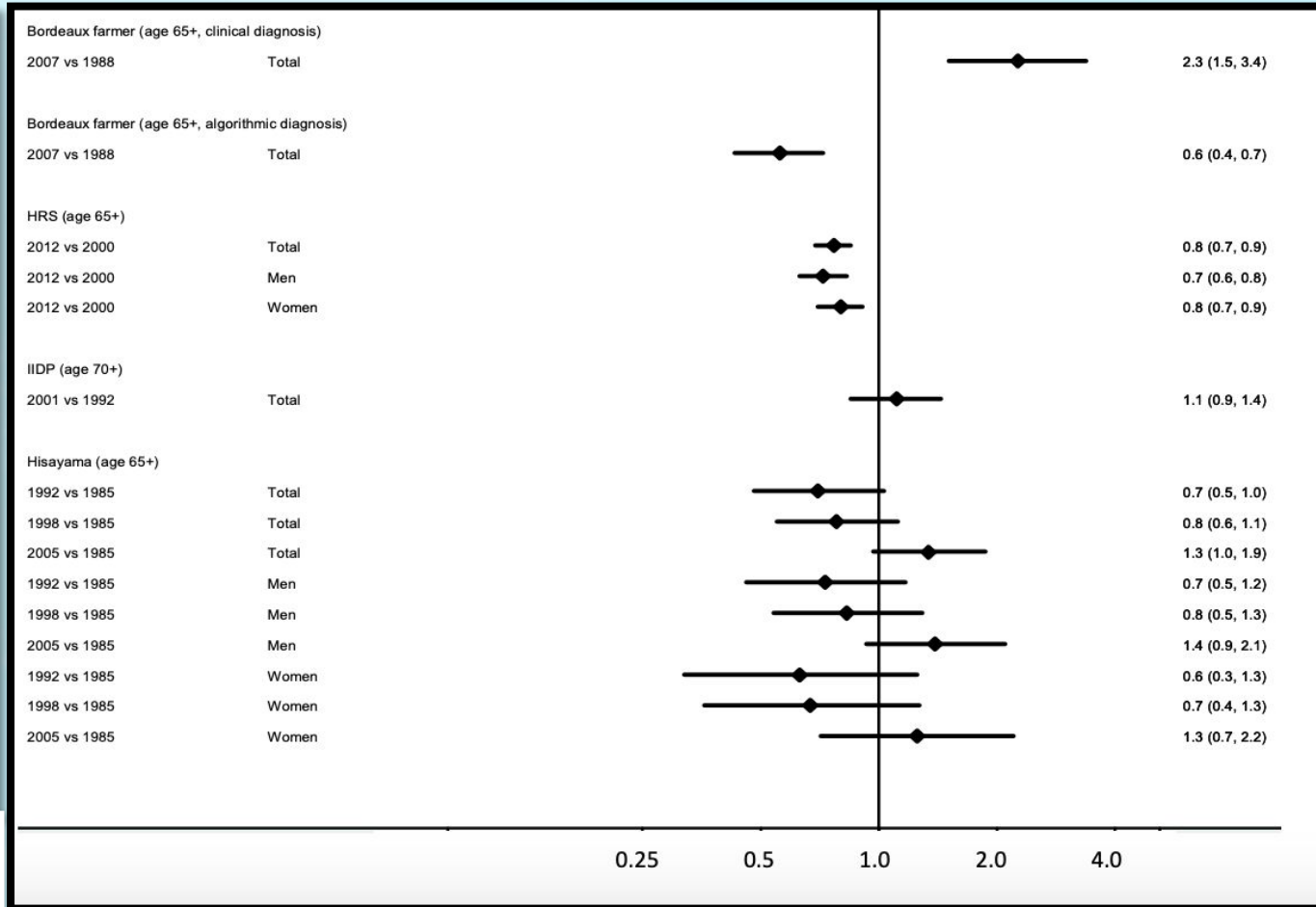
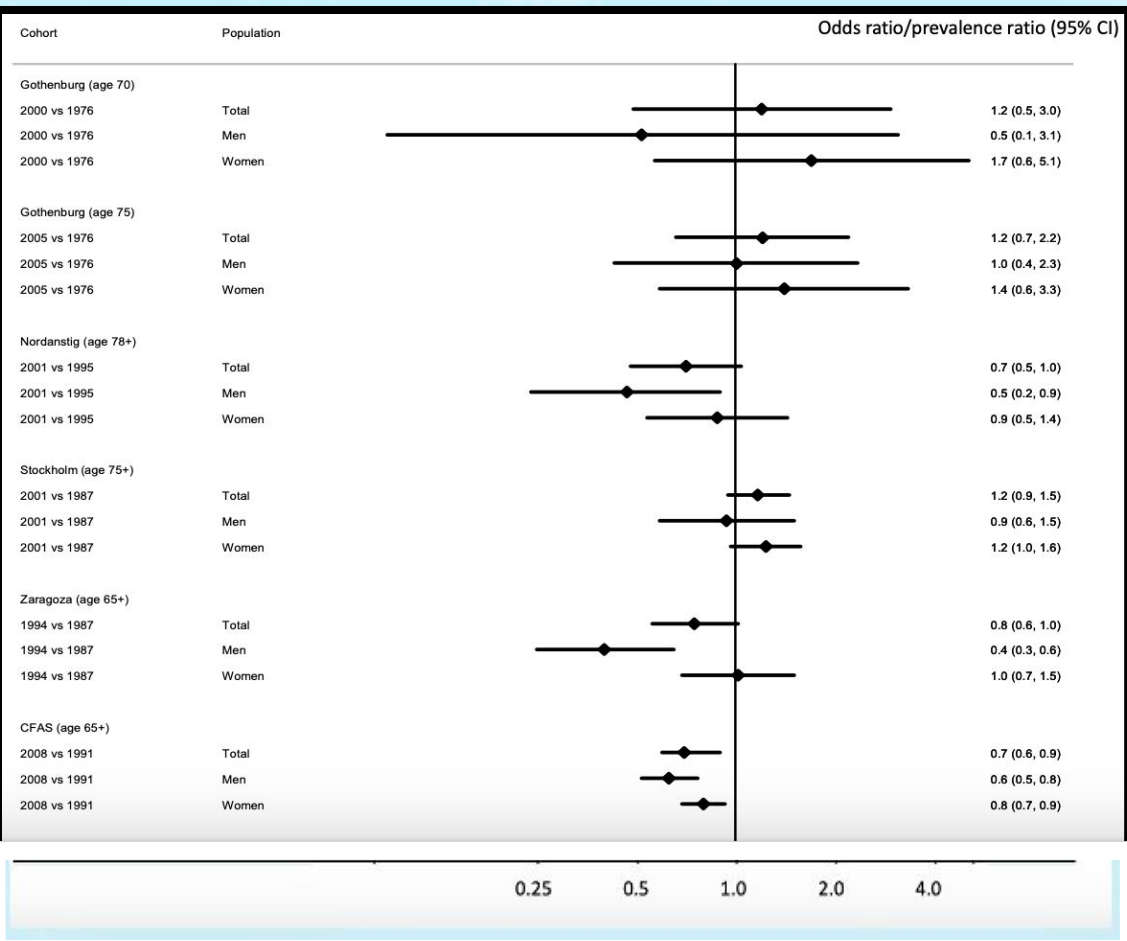
2025

2050

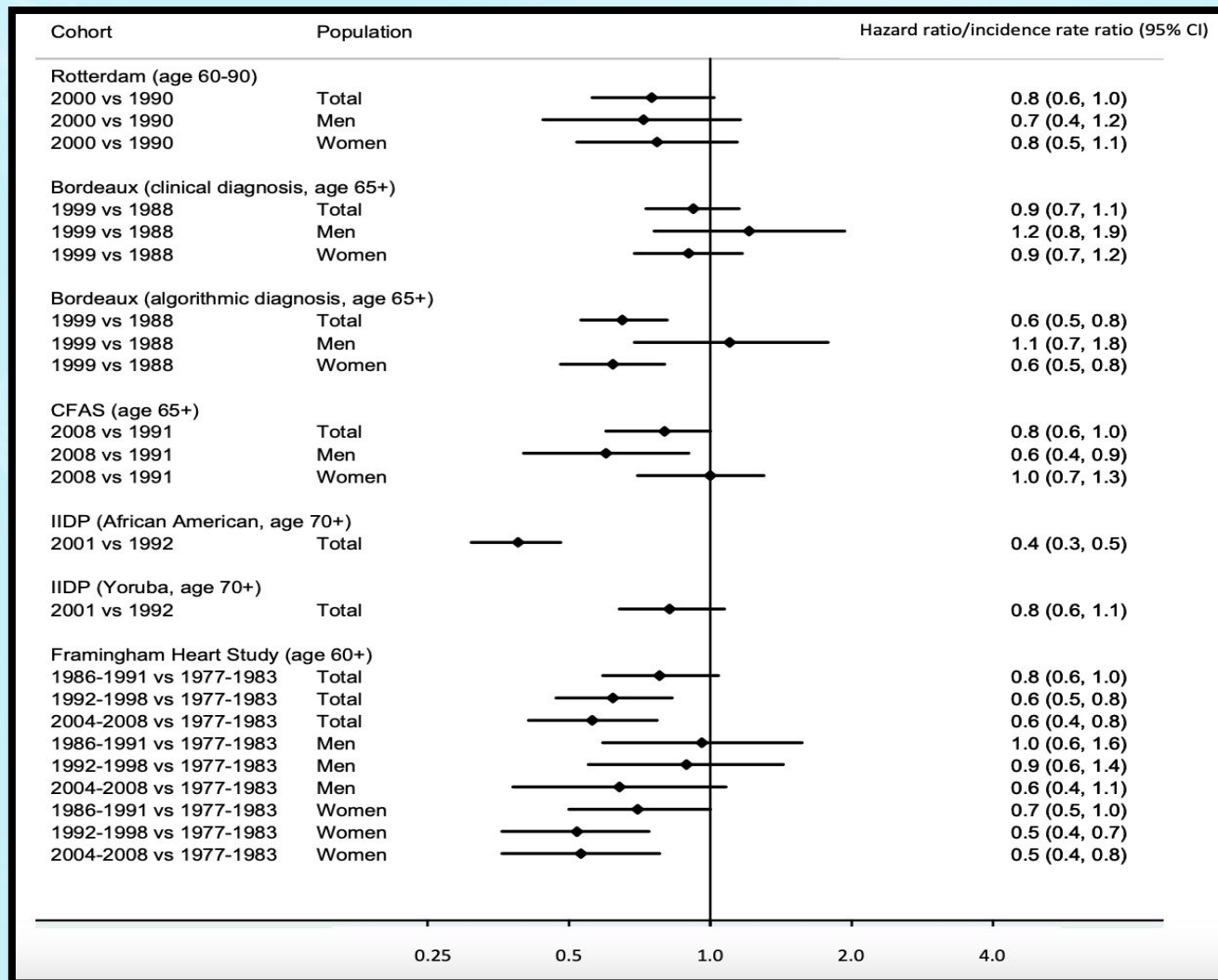
5.7
million people

expected to develop
Alzheimer's in
2050 would not.

Prevalence Estimates New/Old Cohort



Incidence Estimates New/Old Cohort



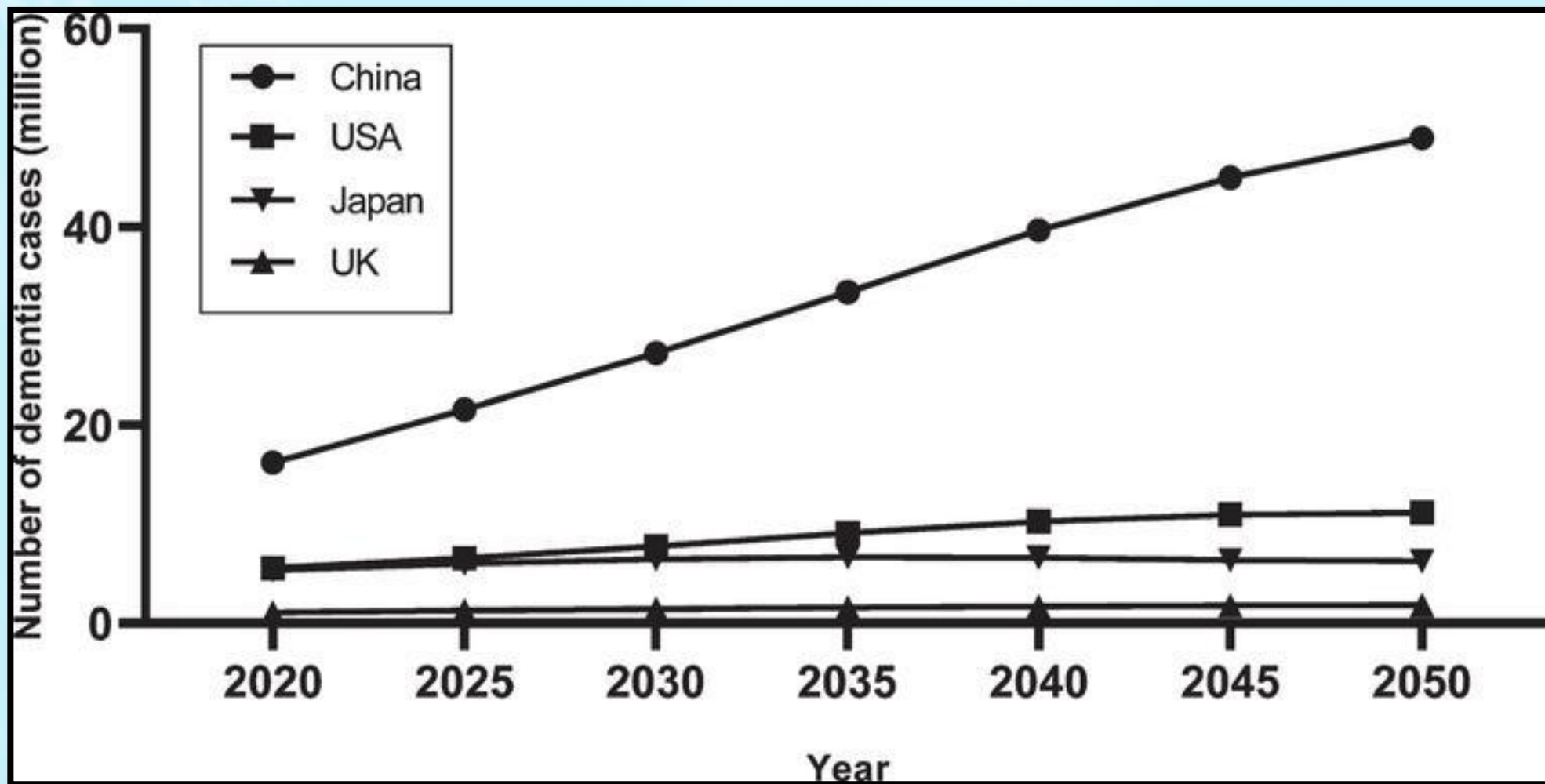
Wu YT et al. *Nat Rev Neurol* 2017

Gender Dif. in Incidence & Prevalence

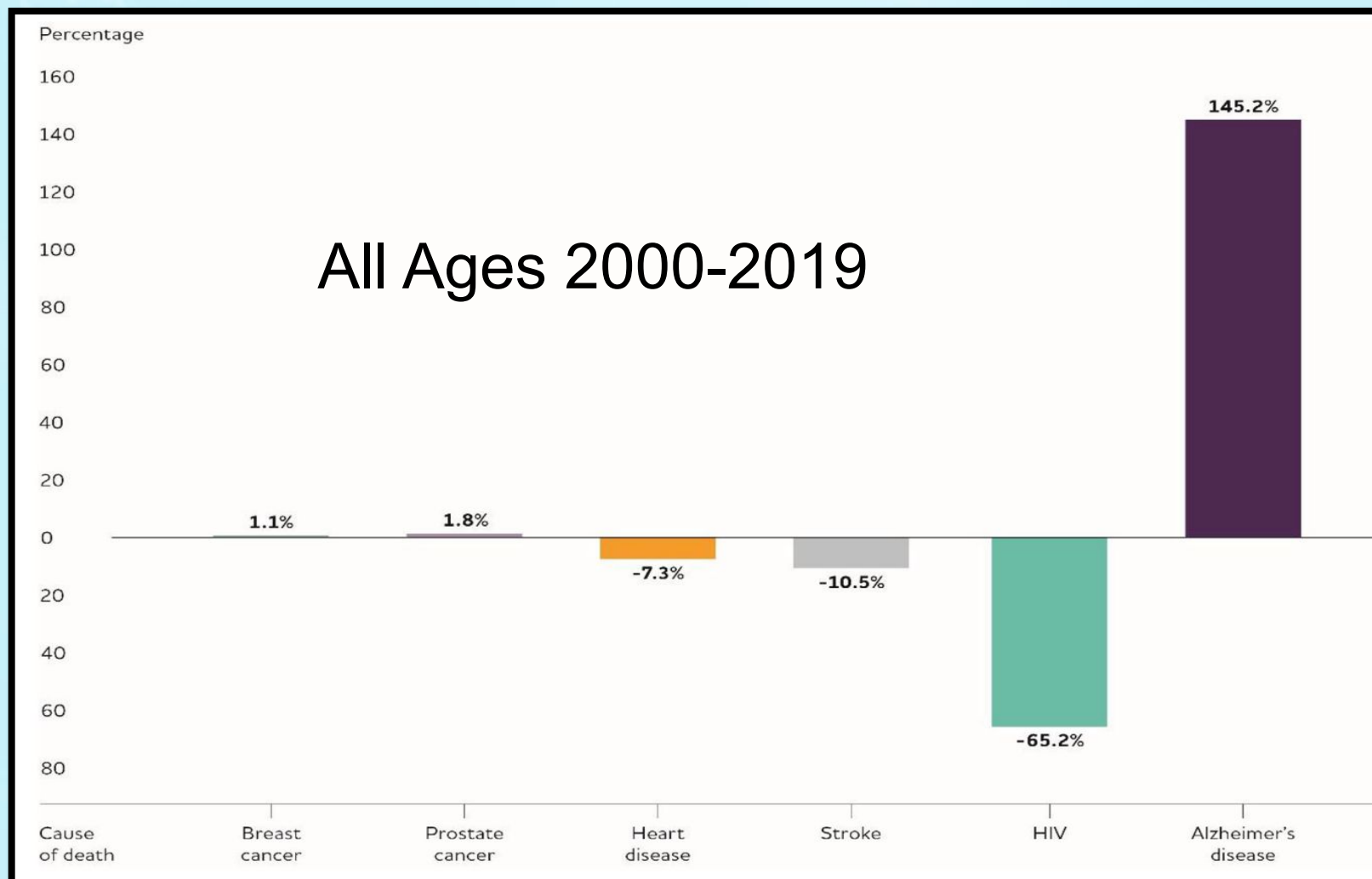
Study	Prevalence trends		Incidence trends		Life expectancy at age 60 in years					
	Men	Women	Men	Women	Men			Women		
					1990	2000	2012	1990	2000	2012
UK: CFAS (2008 vs 1991)	↓*	↓*	↓*	→	18	20	22	22	23	25
Spain: Zaragoza (1994 vs 1987)	↓*	→	-	-	19	21	22	24	25	27
Sweden: Nordanstig (2001 vs 1995)	↓*	→	-	-	19	21	23	23	24	25
France: Bordeaux (1999 vs 1988)	-	-	→	↓*	20	20	23	25	26	27
US: FHS (2005 vs 1985)	-	-	↓	↓*	19	20	21	23	23	24

Wu YT et al. *Nat Rev Neurol* 2017

Estimated Dementia Prevalence

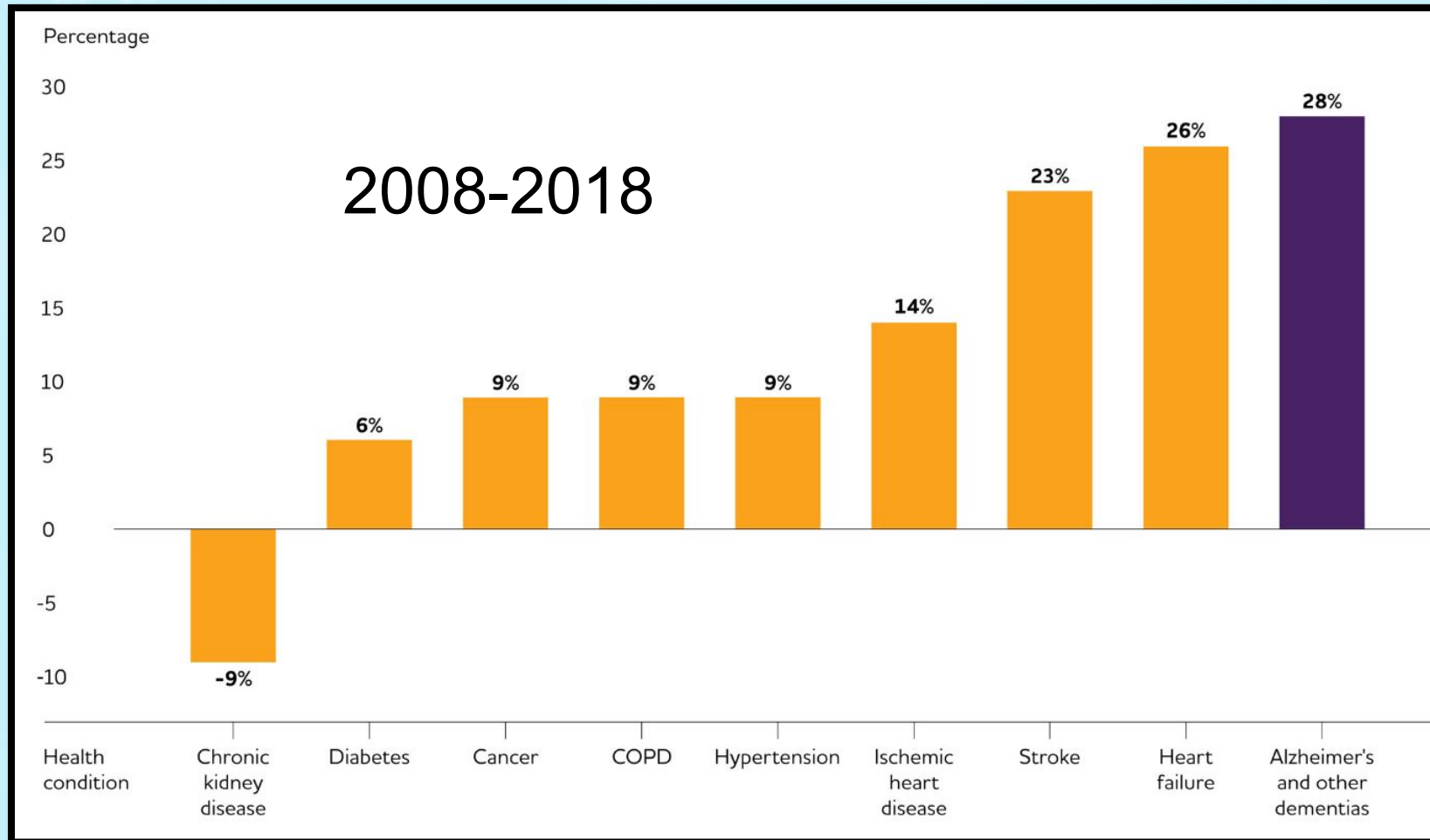


Percentage Change in Death Causes



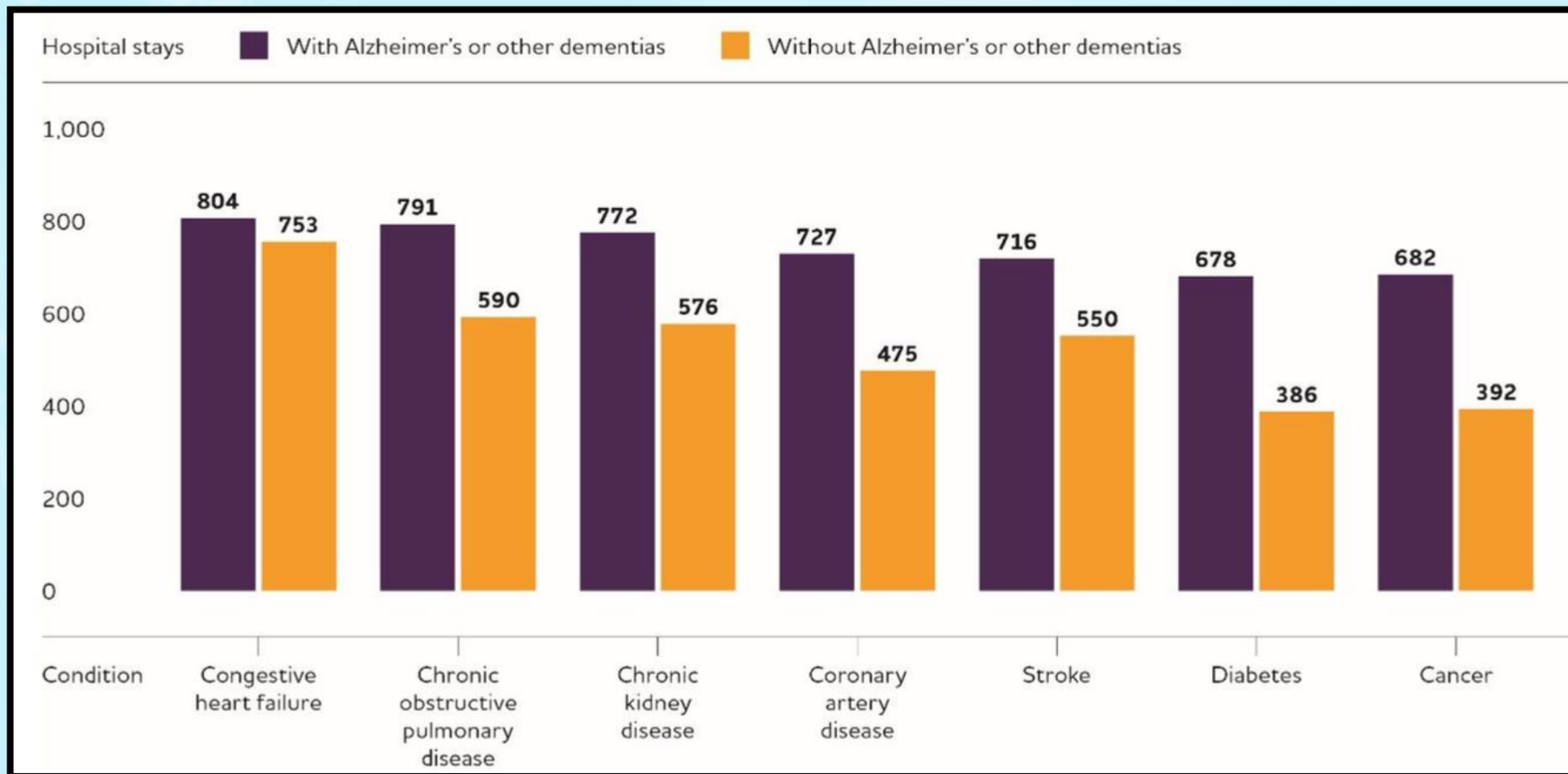
Alz Assoc. Report. *Alzheimers Dement.* 2022

Percentage Change in ER Visits

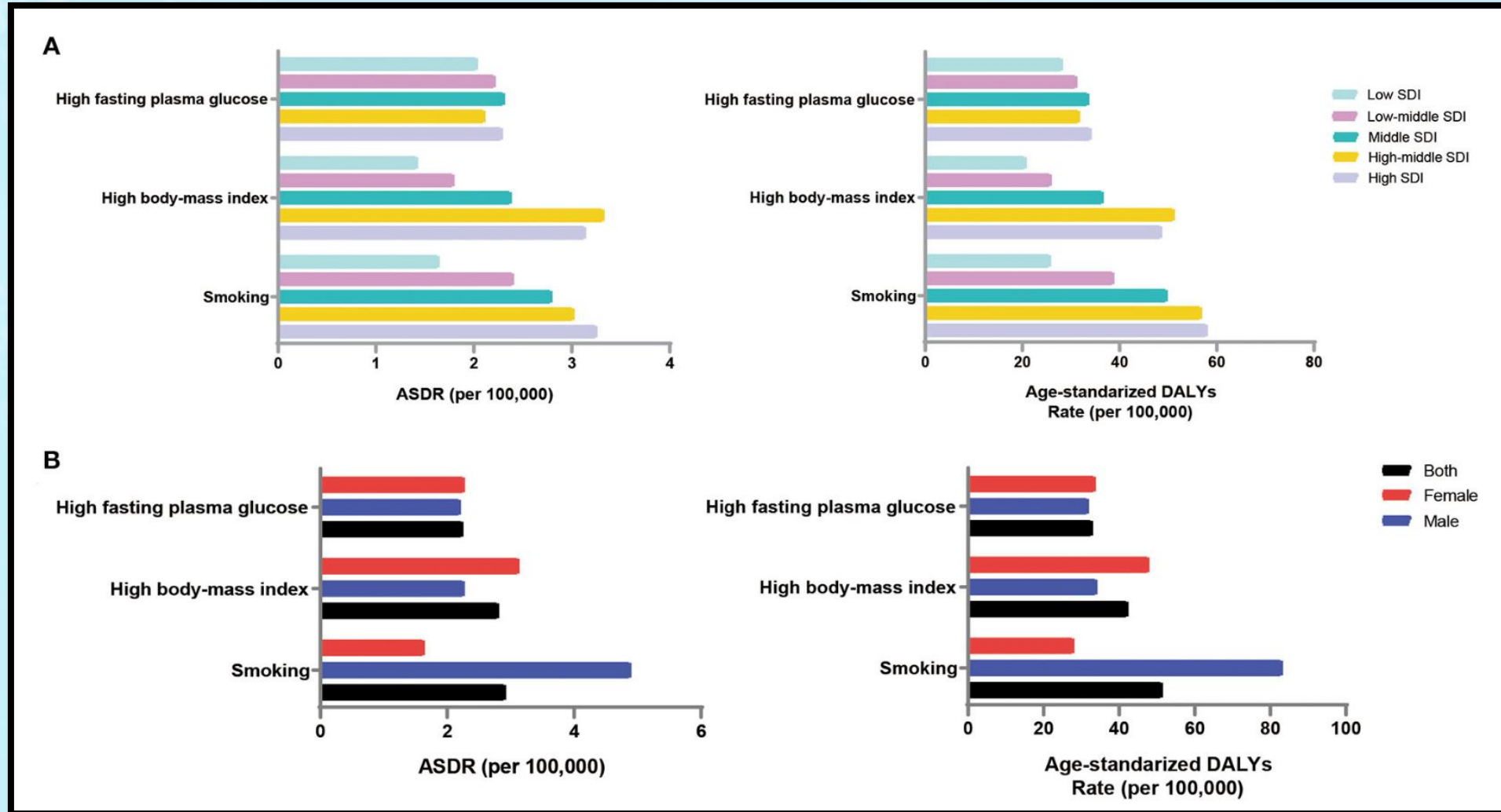


Alz Assoc. Report. *Alzheimers Dement.* 2022

Hospital Stays for Older Patients

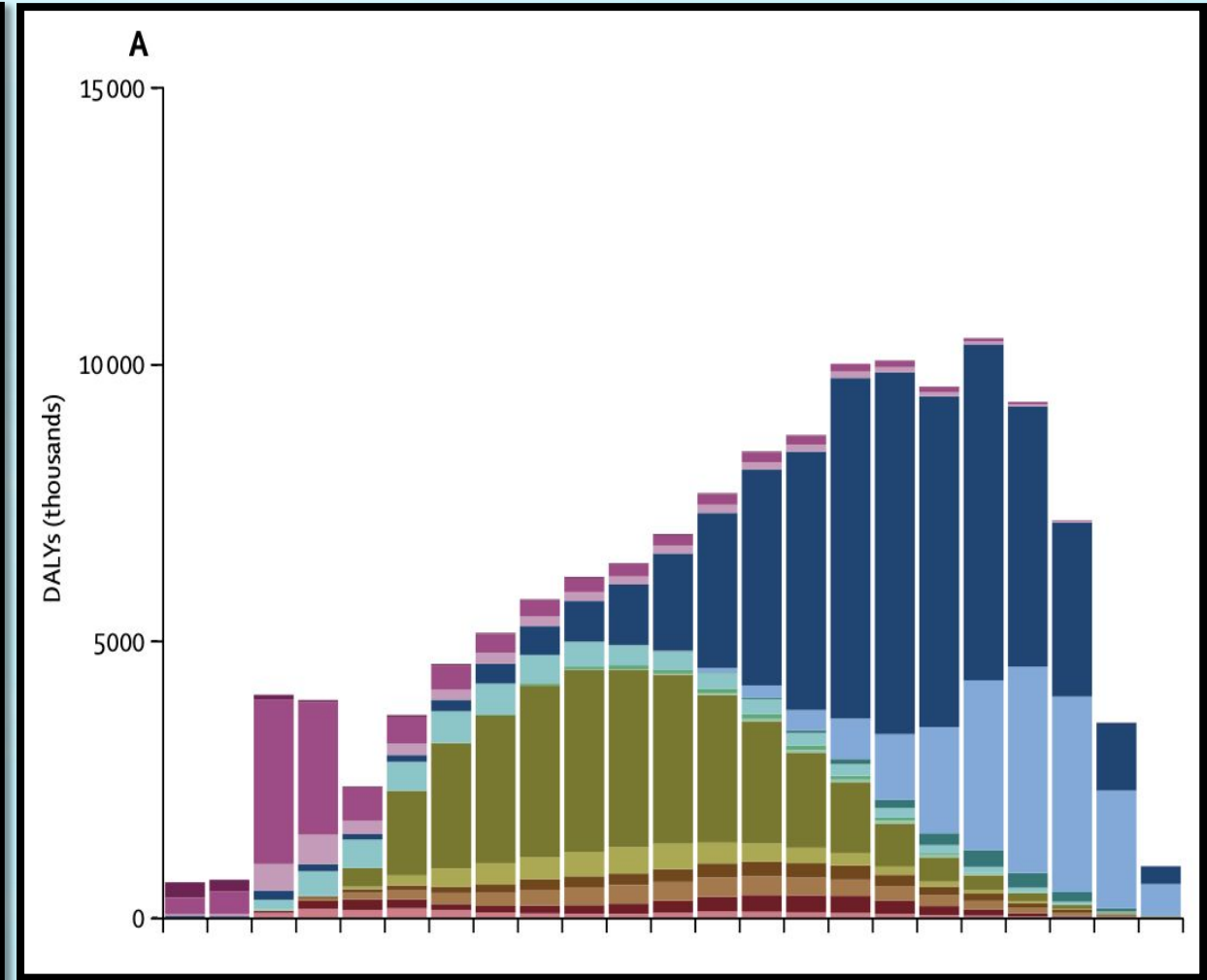
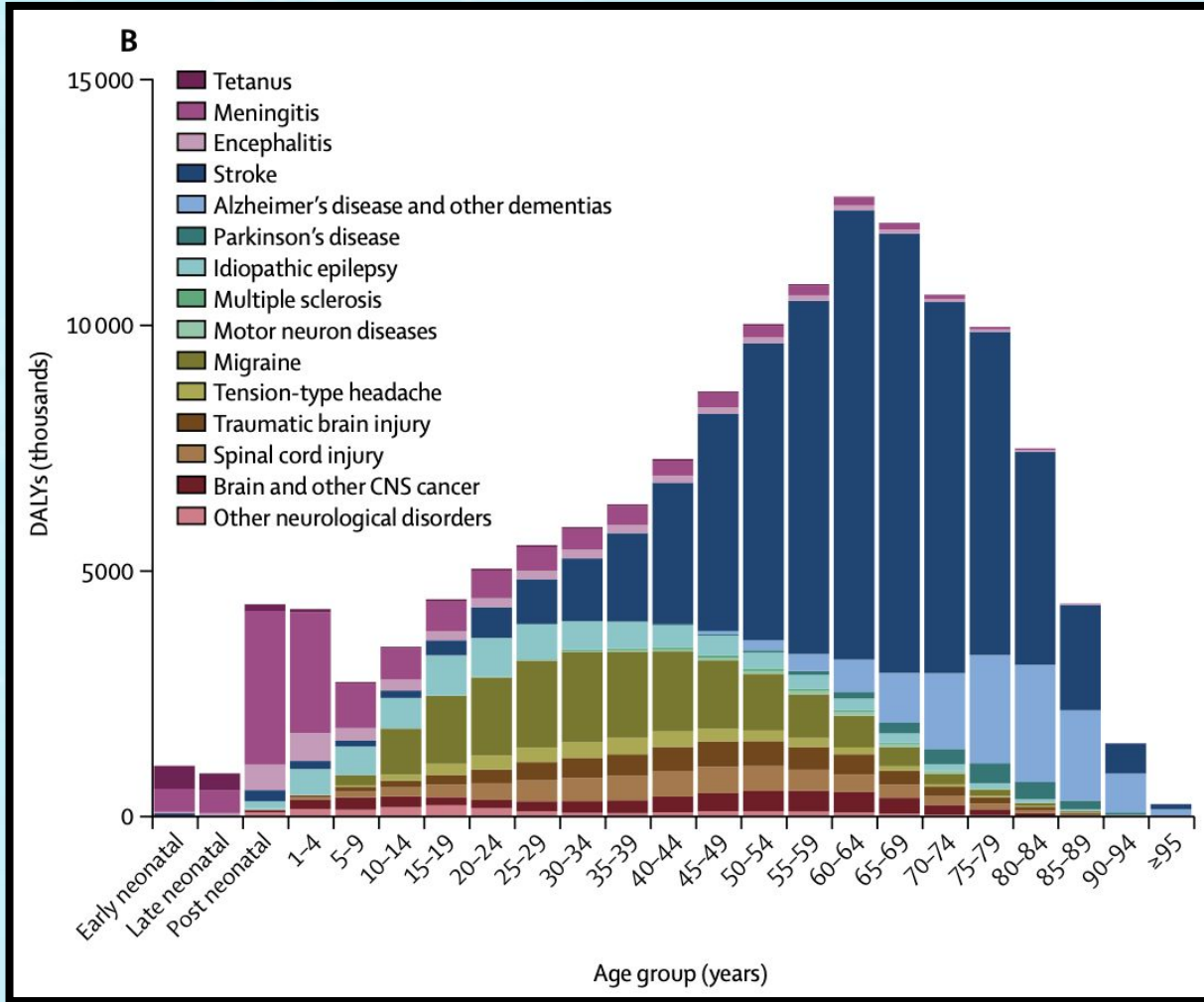


Risk Factors Impact on Burden of AD



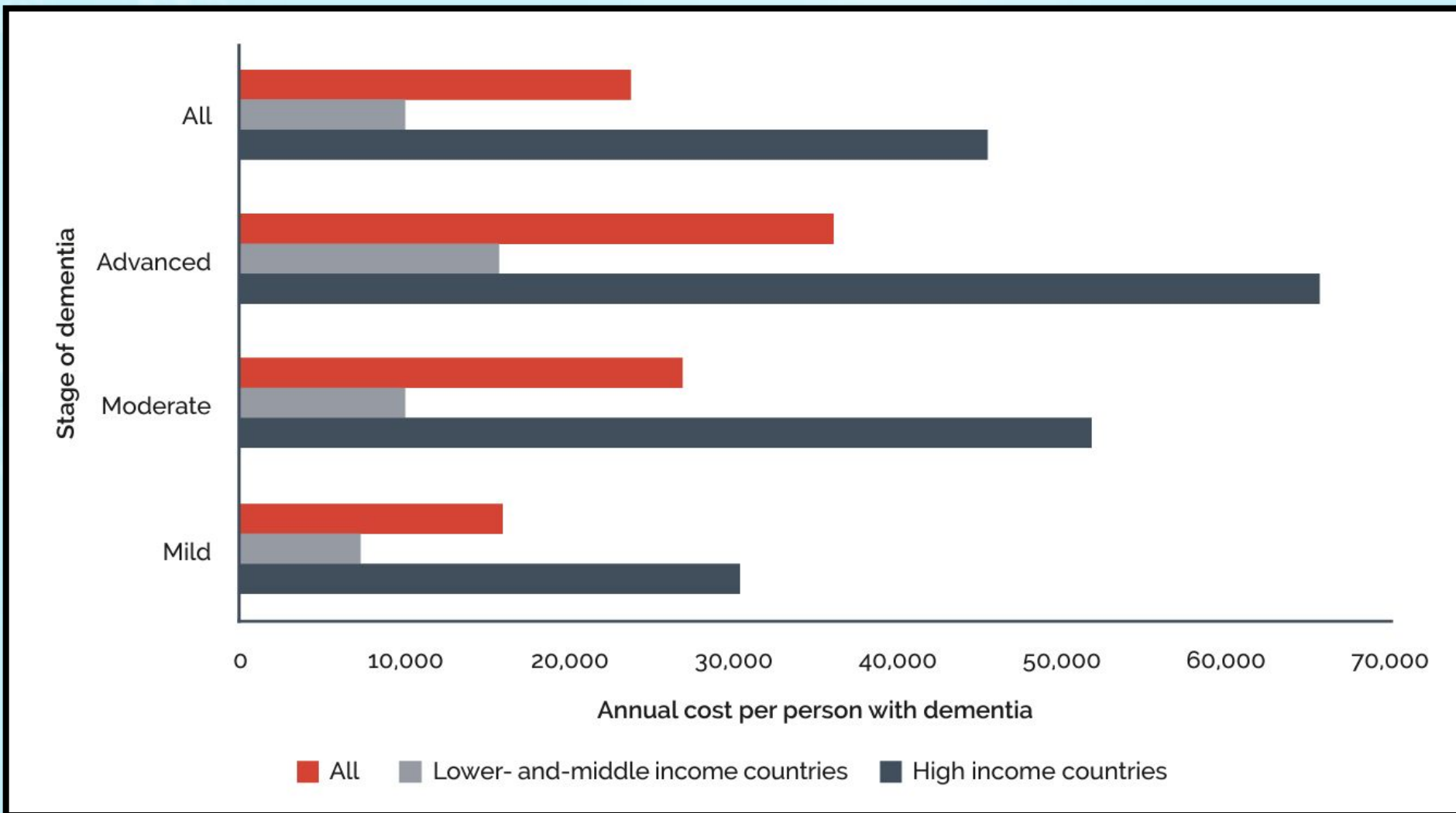
Li X et al, *Front. Aging Neurosci.* 2022

Headings



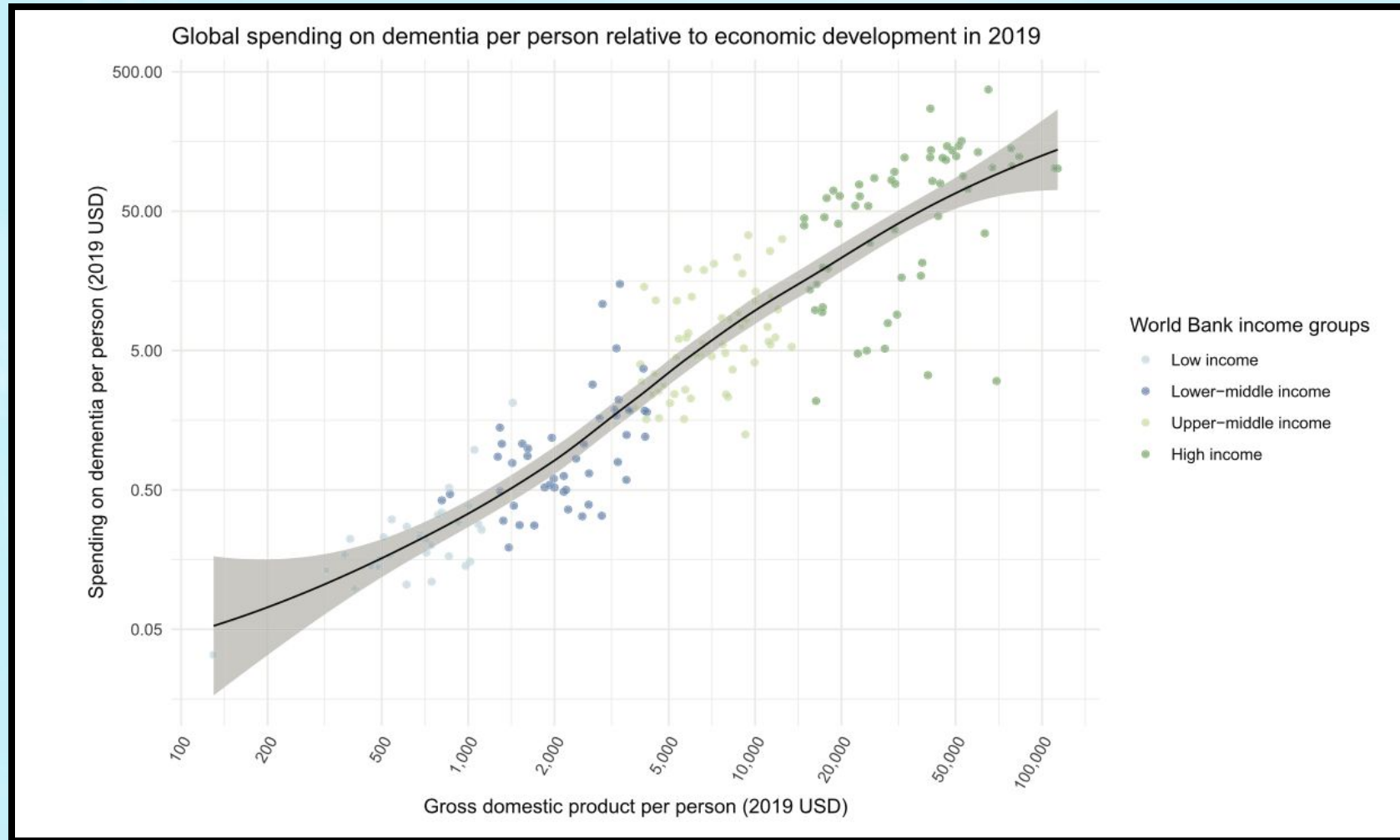
Feigin V et al, *Lancet Neurol* 2019

Annual Cost of Dementia Patient



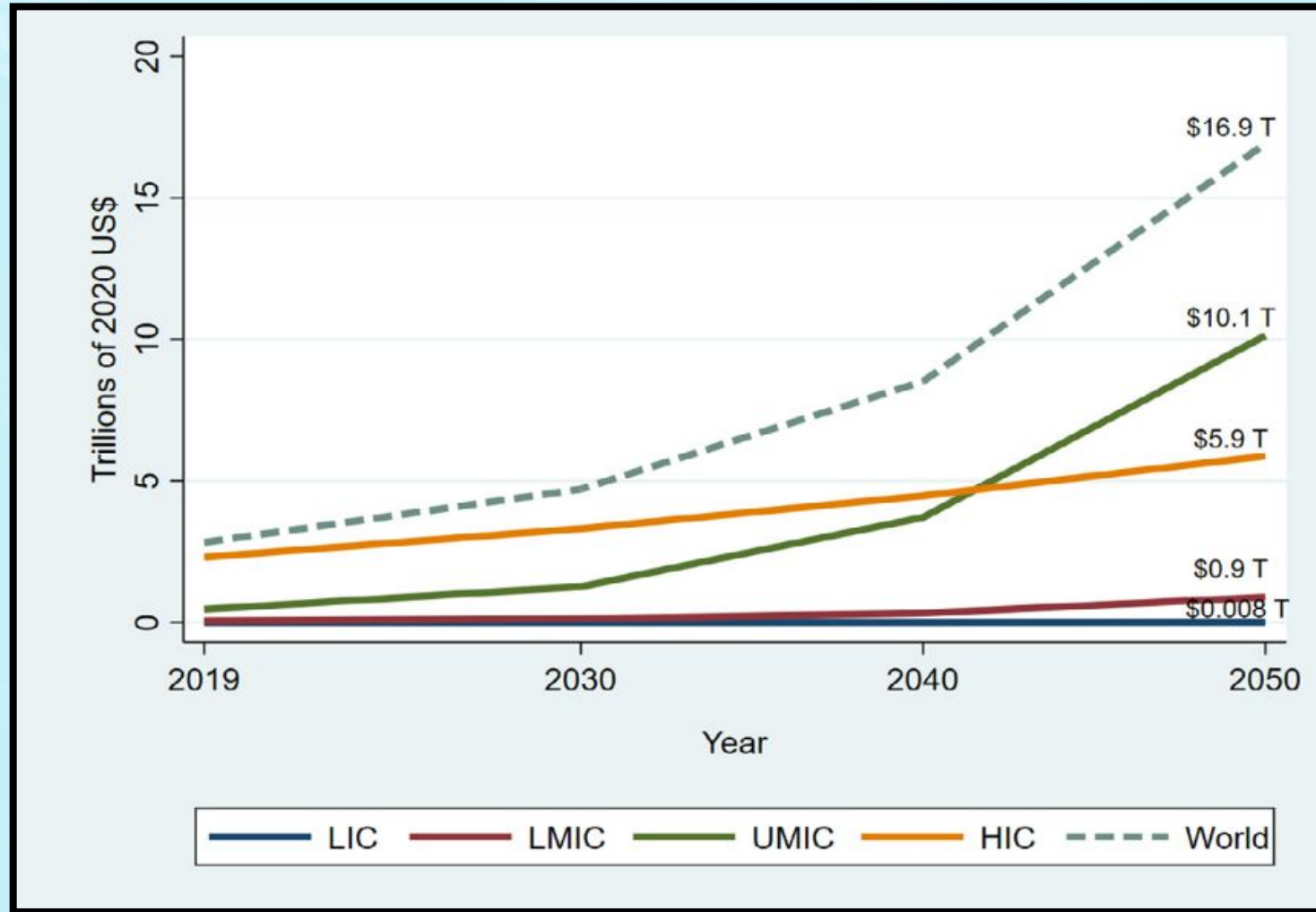
ADI. World Alzheimer Report. 2022

Global Dementia Spending Per Person



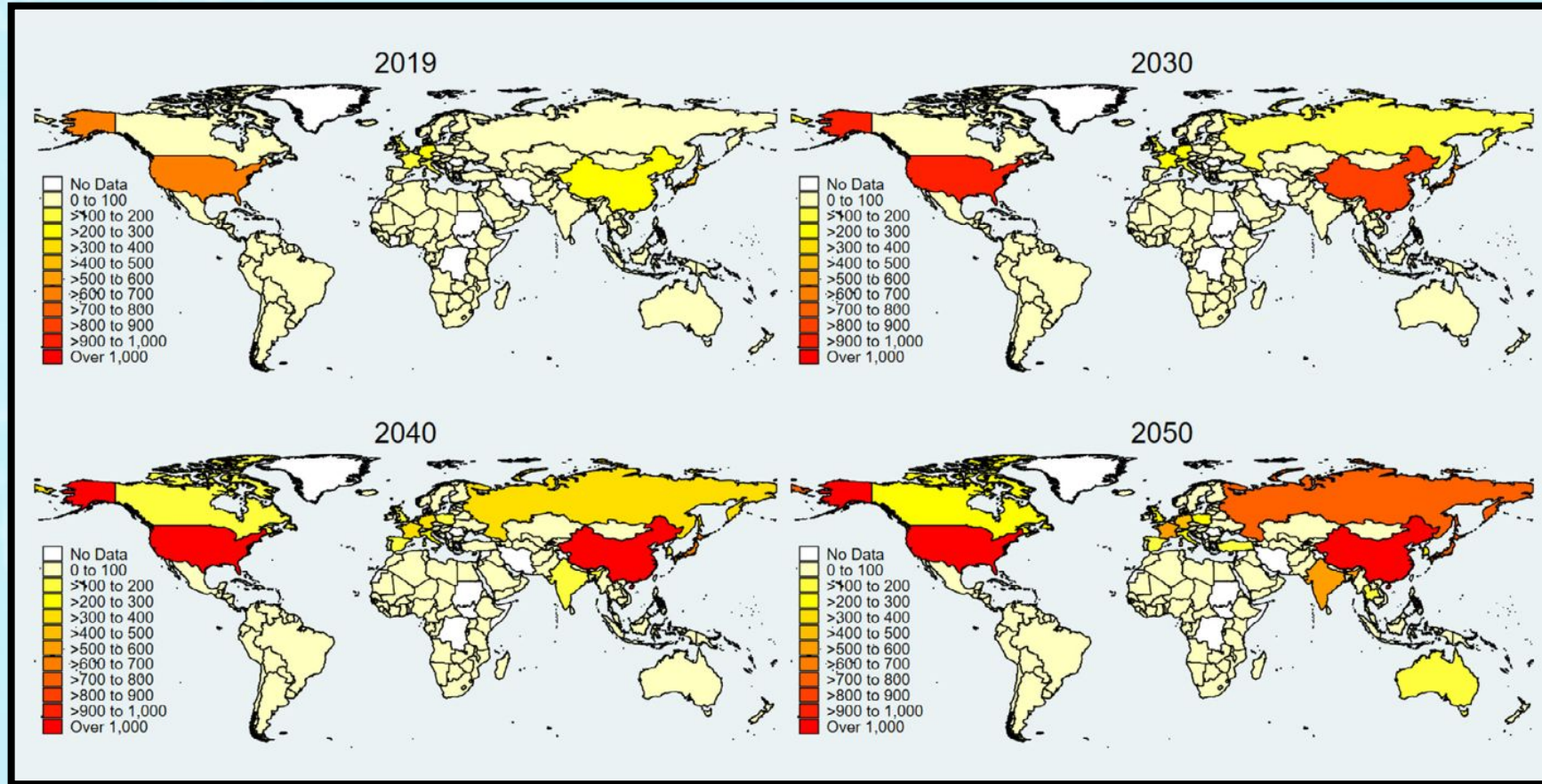
Velandia PP et al. *eClinicalMedicine* 2022

Estimated Economic Burden of ADRD



Nandi A et al. *EClinicalMedicine* 2022

Estimated Economic Burden of ADRD



Country	Economic burden of ADRDs, 2030	Economic burden of ADRDs, 2040	Economic burden of ADRDs, 2050
Saudi Arabia	11,496.3 (8,373.9 - 15,133.4)	19,403.0 (13,397.9 - 27,137.6)	29,830.9 (19,553.6 - 43,605.3)

Conclusion

- Alzheimer's Disease/Dementia is becoming a Pandemic
- Currently 50 million people have dementia and by 2050 140 million
- N Africa/Middle East around 10 million dementia patients in 2050
- Projected Incidence and Prevalence among highest in the Middle East
- Economic Burden is significant (17 Trillion dollars by 2050)
- Finding a cure or further preventive measures is essential



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Thank you