

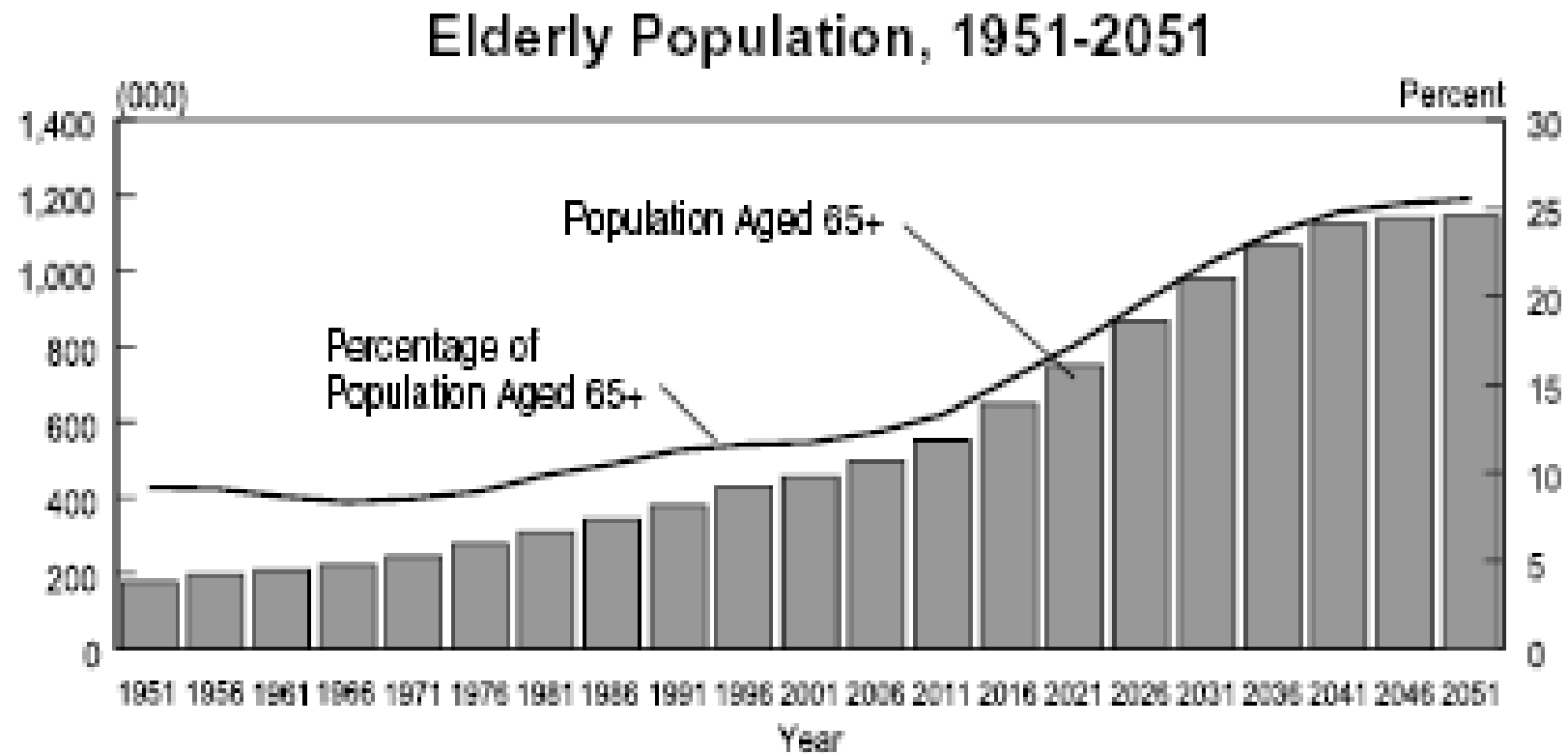
Early dementia detection and management

DR YU-MIN LIN

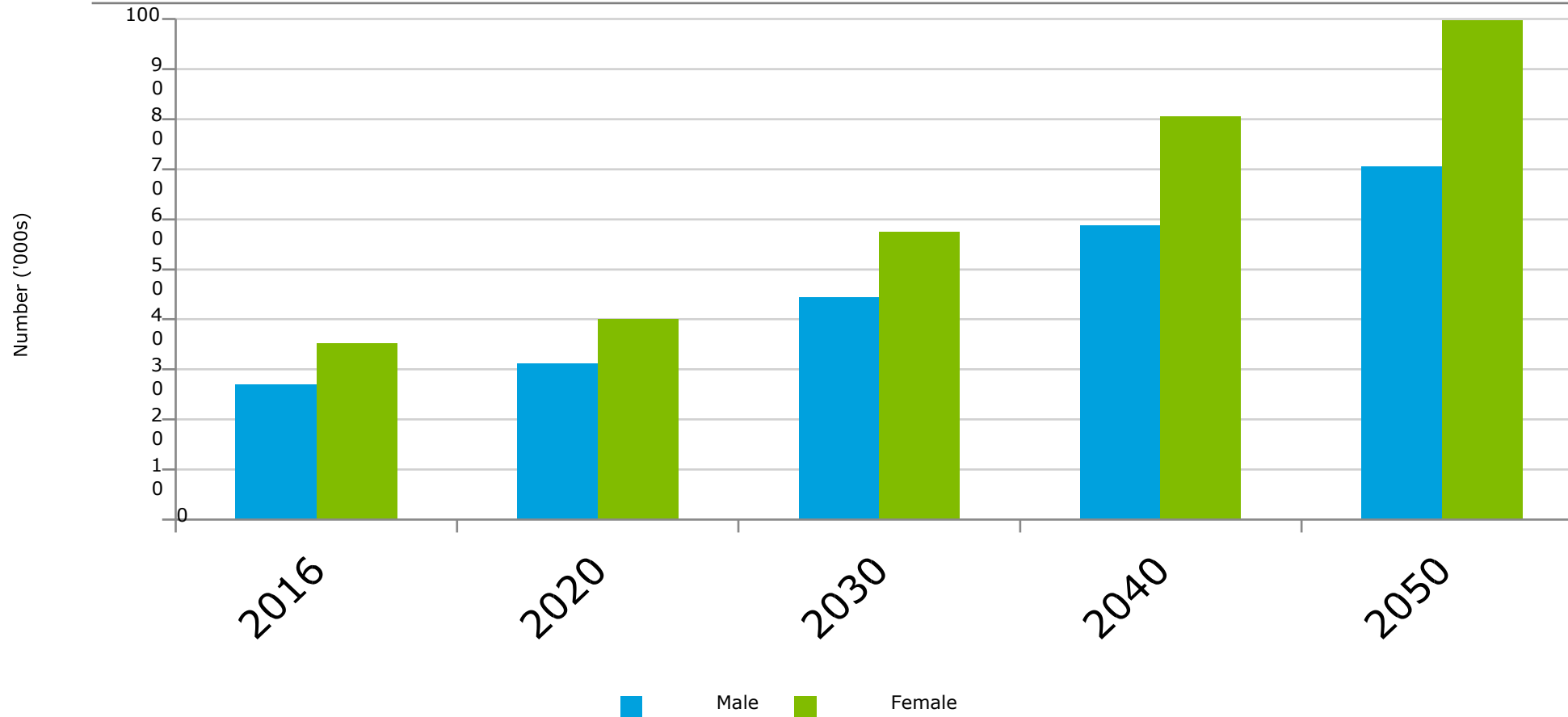
GERIATRICIAN

Aging population

Figure 1



Prevalence projections by gender, New Zealand, 2016 to 2050



DSM-5: “Major Neurocognitive Disorder”

1. There is evidence of substantial cognitive decline from a previous level of performance in one or more of the domains outlined.
 - complex attention,
 - learning and memory,
 - executive ability,
 - language,
 - visuoconstructional-perceptual ability, and
 - social cognition
2. The cognitive deficits are **sufficient to interfere with functional** and instrumental independence.
3. The cognitive deficits do not occur exclusively in the context of a Delirium, and
4. The cognitive deficits are not primarily attributable to another mental disorder (e.g. depression, schizophrenia).

When to screen?

- 45+ health check (risk factors)
- 75+ health check – routinely ask about cognitive difficulties
 - Driver licence renewal
- Those with chronic disease
- patient and family raising concerns
- “vague patients”

Formal cognitive screen

- GPCog
 - Fast, sensitivity ~89-96%, specificity ~62%, online, multiple languages
 - www.gpcog.com.au
- MMSE
 - Longer test, similar sensitivity as GPCog, copy right issue
- MOCA +/- IQCODE
- RUDAS
- ACE-III

However, don't rely on numbers. Consider clinical history, reported functional deficit related to the cognitive impairment and importantly, collateral history from family/friends..

Investigation

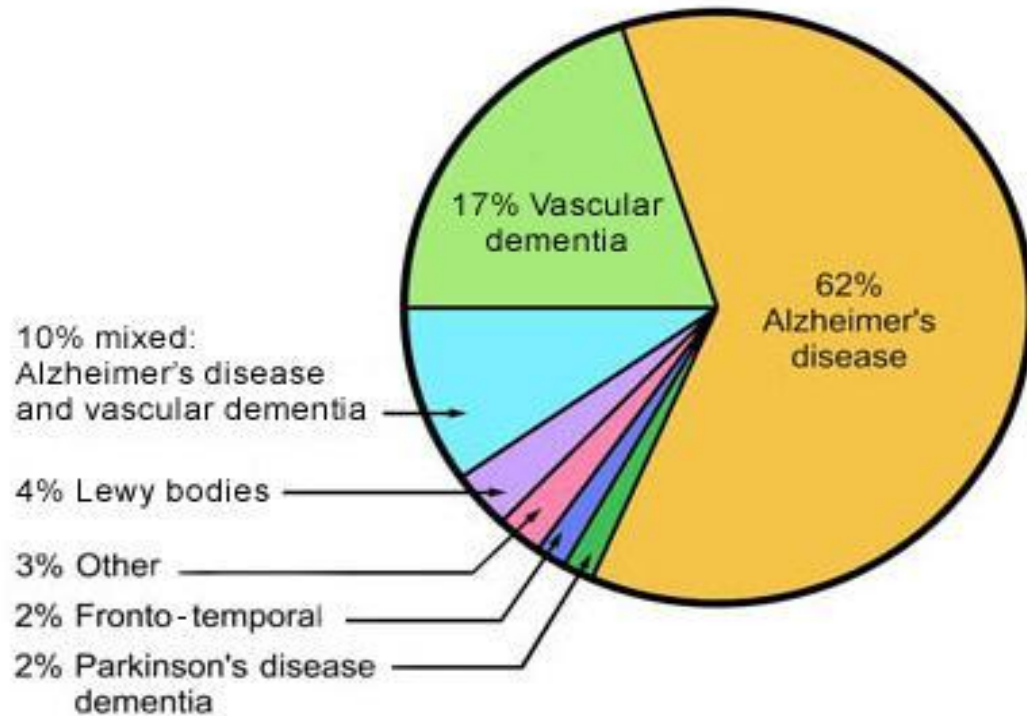
Physical exam – rule out organic cause/delirium/depression/Parkinsonism/neurological event

Bloods – electrolytes, Mg, Calcium, B12/folate, TFT (syphilis/HIV in suspicious cases)

Neuro-imaging

Medication review – avoid anticholinergics, correlation with new medications

Dementia: Main Causes



Other Causes

Alcohol
Trauma
Anoxia
Huntington's Disease
Prion Diseases
Mitochondrial Disorders
Progressive Supranuclear Palsy
NPH
AIDS / Syphilis
Wilson's Disease

Depression
Delirium
Psychosis

Mangement

Legal – EPOA, Wills (if appropriate depending on stage at diagnosis)

Driving

Medication – if appropriate. Compliance. Review dispensing record. Deprescribing. Blister pack. Simplify regime.

Vascular risk – caution with aggressive BP and BSL management

Lifestyle – regular exercise, routines, cognitive stimulation

Local dementia society for carer support, programs

NASC – ensure family/carer is present for assessment

ACP – if appropriate

Medication for dementia

Cholinesterase Inhibitors

Donepezil *****

Rivastigmine patch

(Galantamine)

NMDA inhibitor

(Memantine)

Alzheimer's, Lewy Body Dementia, Parkinson's dementia



Vascular Dementia



FTD



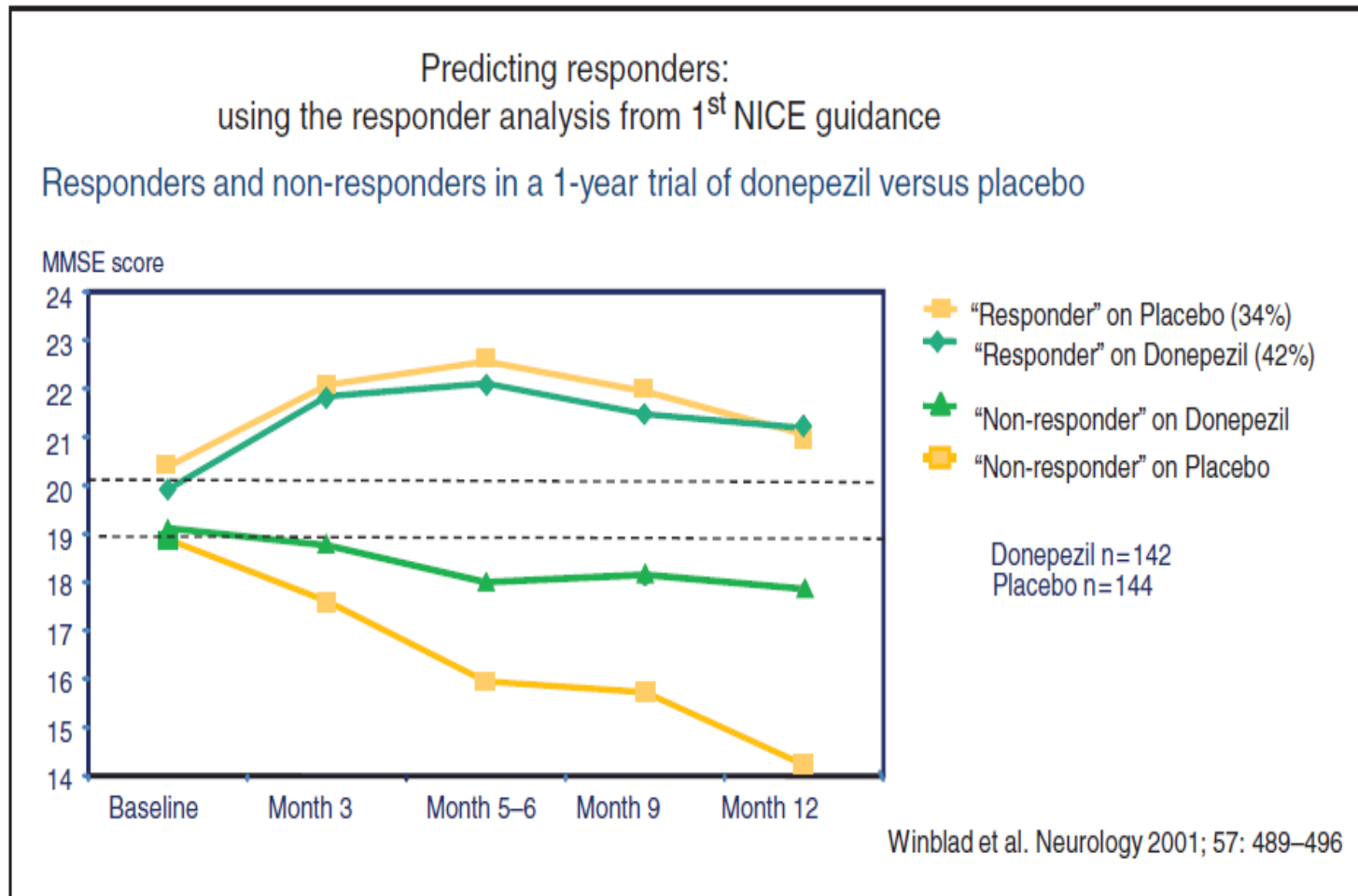


Figure 1. Patients declining according to the NICE definition of response at 3 months showed much less MMSE decline on donepezil compared with placebo, demonstrating a clear drug effect.

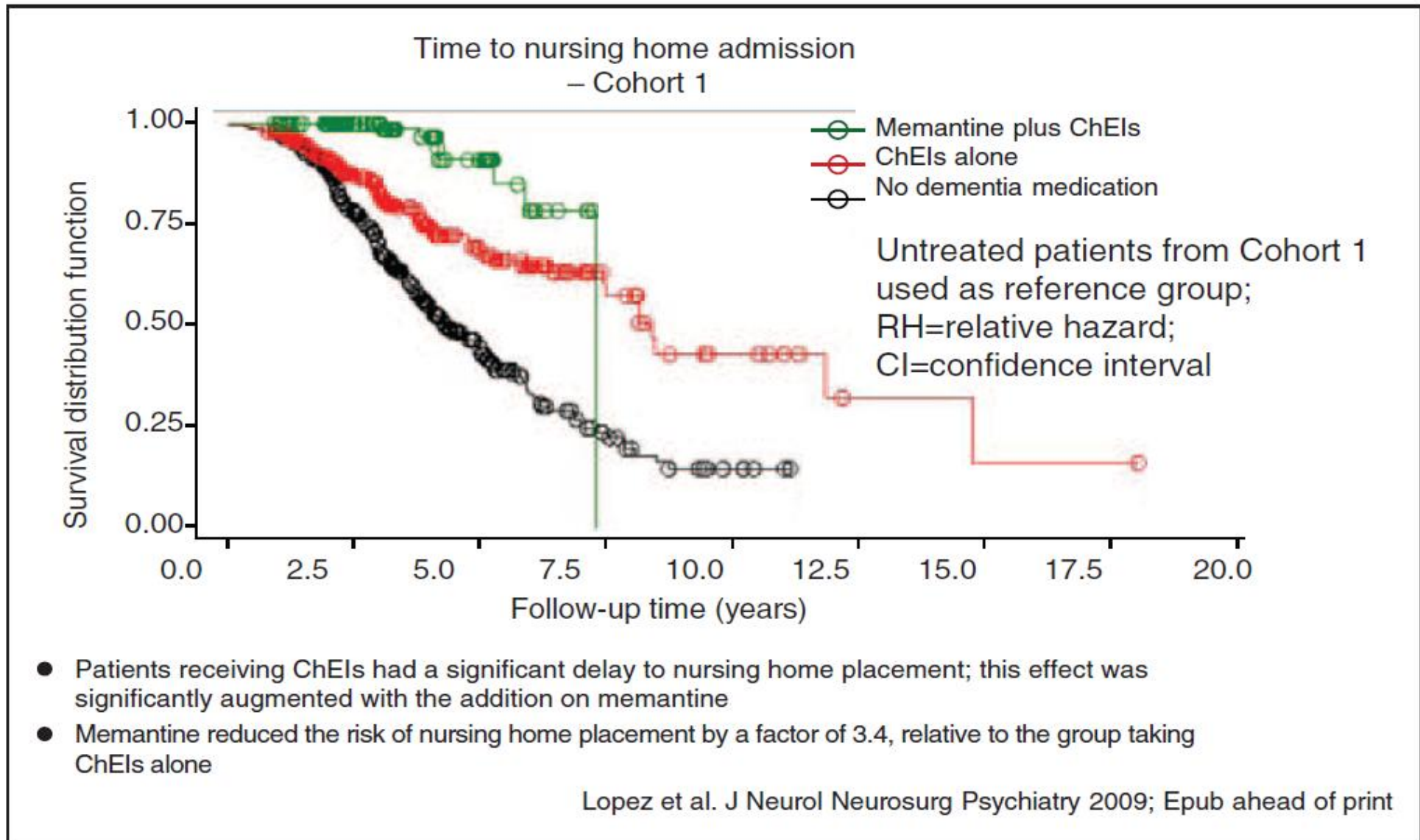


Figure 3. Long-term effects of the concomitant use of memantine with cholinesterase inhibition in AD.

Into the future.....

Multiple drug trials targeting amyloid/tau – still disappointing

- ?given too late
- ? Wrong targets

New strategies to “prevent” or delay dementia

- Aggressive vascular/lifestyle management in “mid-age” – age 45-65 group
- Education level
- HT, DM, Dyslipidaemia, smoking, alcohol, exercise, food/diet, depression

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Dementia Incidence on the Decline

Pauline Anderson

September 11, 2017

