

Future trends in morbidity: implications for long term care

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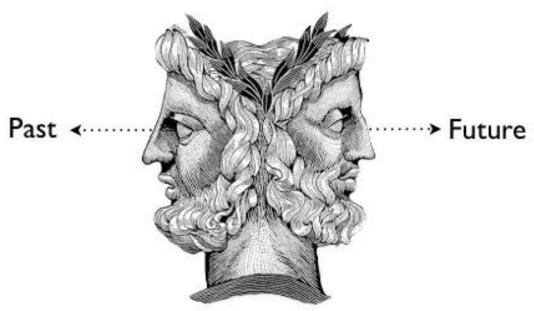
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Outline





W ★ **()** Is late-life dependency increasing or not? A comparison of the Cognitive Function and Ageing Studies (CFAS)



Andrew Kingston, Pia Wohland, Raphael Wittenberg, Louise Robinson, Carol Brayne, Fiona E Matthews, Carol Jagger, on behalf of the Cognitive Function and Ageing Studies collaboration*

http://dx.doi.org/10.1016/

Lancet 2017; 390: 1676-84 Background Little is known about how the proportions of dependency states have changed between generational Published Online cohorts of older people. We aimed to estimate years lived in different dependency states at age 65 years in 1991 and August 15, 2017 2011, and new projections of future demand for care.

Age and Ageing 2018; 47: 374-380 doi: 10.1093/ageing/afx201

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Projections of multi-morbidity in the older population in England to 2035: estimates from the Population Ageing and Care Simulation (PACSim) model

ANDREW KINGSTON¹, LOUISE ROBINSON¹, HEATHER BOOTH², MARTIN KNAPP³, CAROL JAGGER¹, FOR THE MODEM PROJECT





Messages

Past trends in

- Numbers in residential care
- Dependency levels in the community/residential care
- Dementia in residential care

Future trends in

Dependency and morbidity







Defining dependency

- Interval of need (Isaacs and Neville, 1975):
 - High (requires 24-hour care)
 - bedbound or chairbound, or unable to get to or use the toilet without help, or need help feeding, or be often incontinent and need help dressing, or have severe cognitive impairment (MMSE < 10)
 - Medium (requires help at regular times daily)
 - need help preparing a meal, or dressing
 - Low (requires help less than daily)
 - need help to wash all over or bath, or cut toenails, or shop, or do light or heavy housework
 - Independent



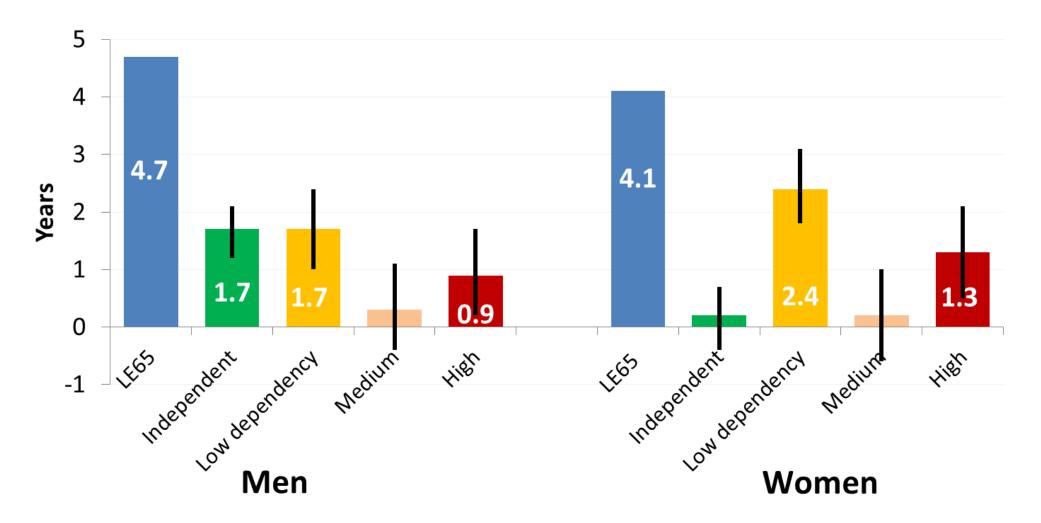








How have care needs changed in last 20 years?



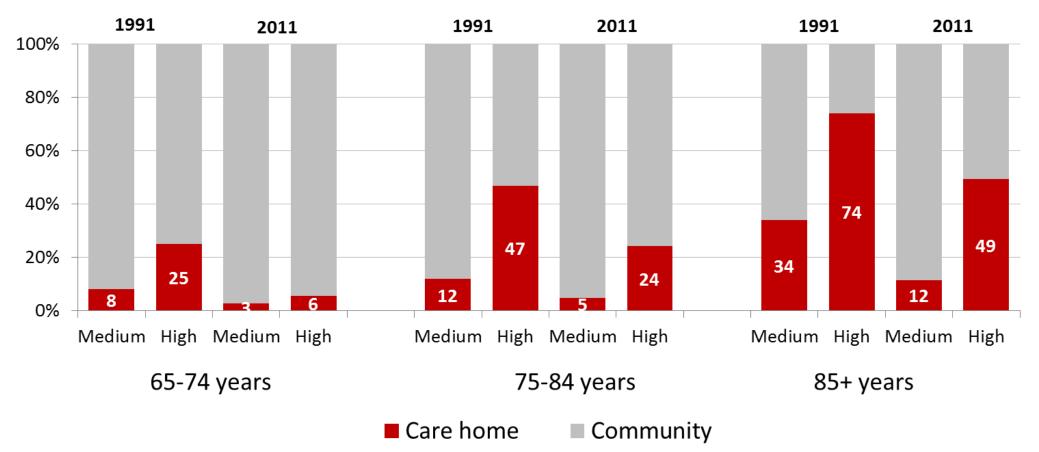






Numbers in residential care

Fewer with substantial dependency now in residential care



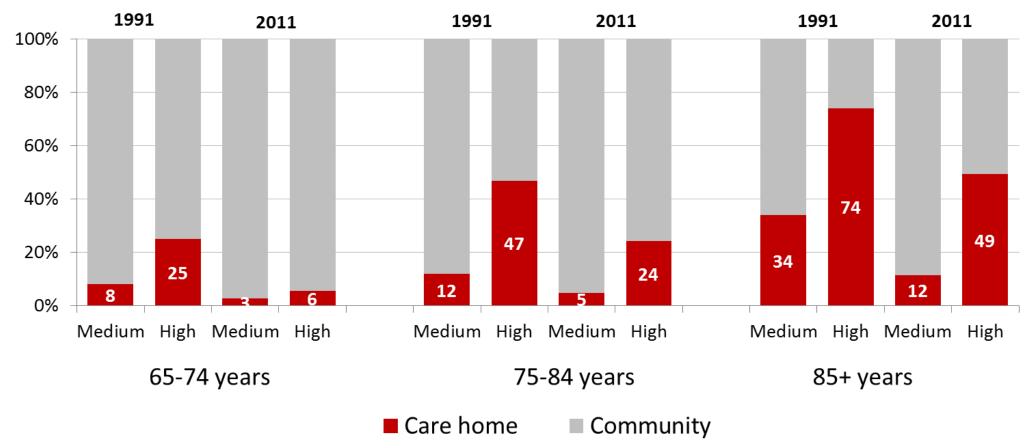






Care in the community

More with substantial dependency now supported in the community



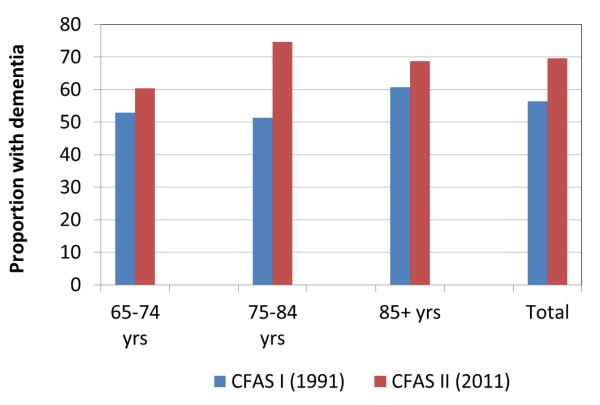


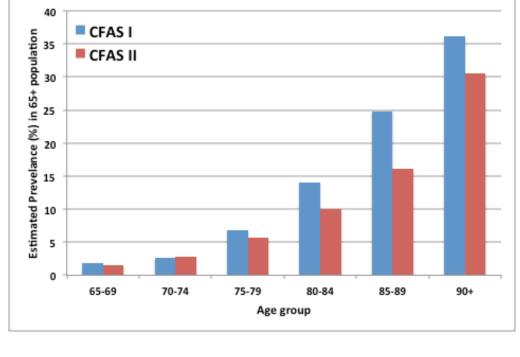




Dementia in residential care

But higher proportion in residential care with dementia

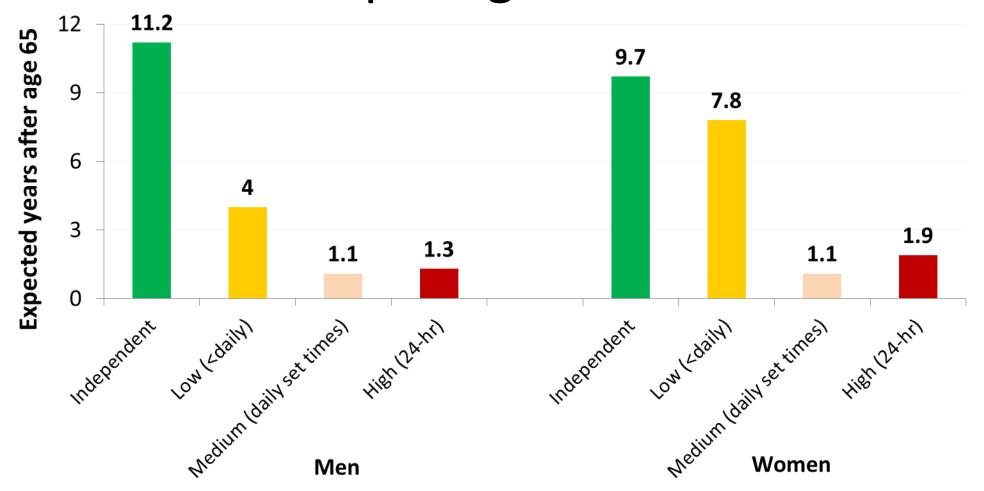








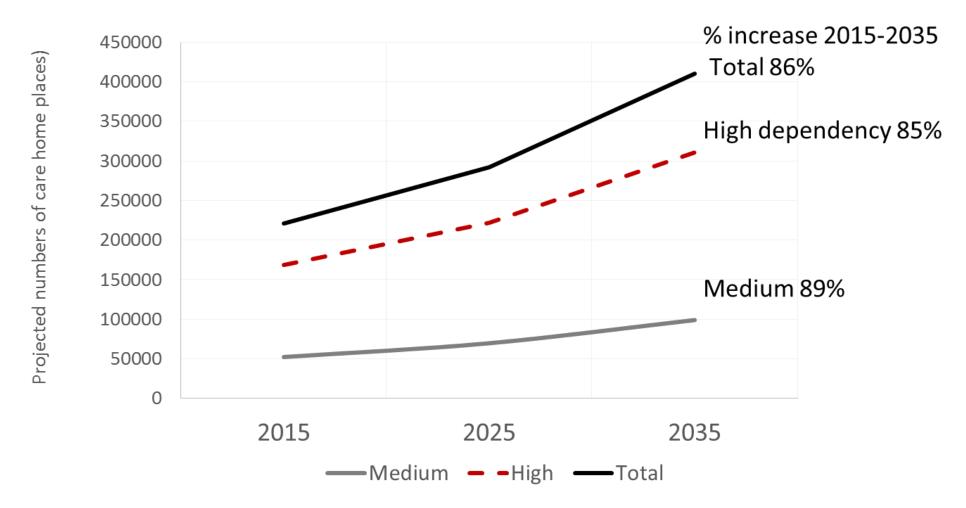
How long do older people now spend requiring care?







Future demand for care home places*



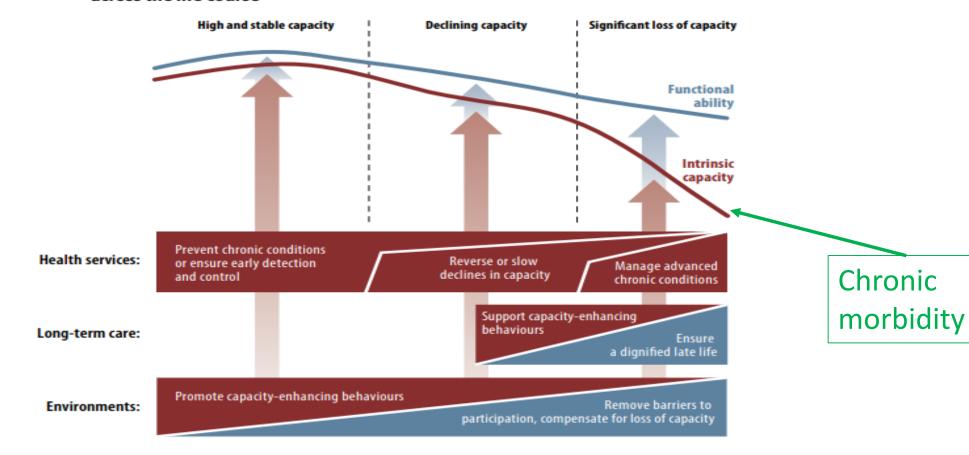
^{*}assuming 2015 prevalence of dependency and proportion in care homes





What will the future hold?

Fig. 2.4. A public-health framework for *Healthy Ageing*: opportunities for public-health action across the life course







Population Ageing & Care Simulation (PACSim)

- Microsimulation model built upon previous macrosimulation model SIMPOP and a similar Australian microsimulation model DynoptaSim
- Aims is to model:
 - The health and associated care needs of the English population from 2014 for the coming decades
 - The impact of interventions for risk factor reduction, disease prevention and treatments that slow down progression to disease and dependency with a particular emphasis on interventions for dementia





http://www.modem-dementia.org.uk





PACSim Outline







Survival

ONS 2014 population projections

Sociodemographic factors

Age, sex, education, marital status, occupation

Lifestyle factors

Smoking, physical activit, BMI

Merbidity

CHD, hypertension diabetes, arthritis, stroke, respiratory disease, cancer, depression, dementia, obspitive impairment, visual impairment, hearing impairment

Dependency

High (requires 24 hr care)
Medium (requires care daily)
Low (requires care < daily)
Independent





PACSim: multimorbidity

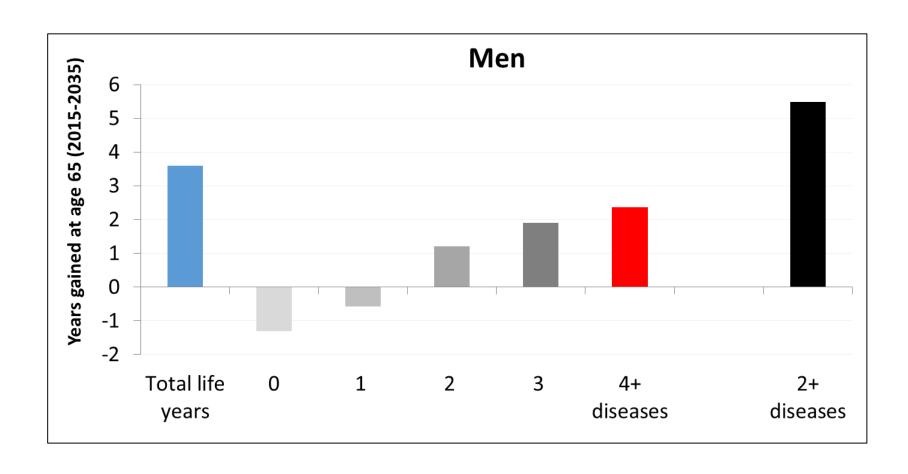
Between 2015 and 2035

- Numbers aged 65+ with 4+ diseases will double
- Around 1/3 of those with 4+ diseases will have mental ill-health: dementia, depression or cognitive impairment no dementia (CIND)
- Most of gain in LE at age 65 will be in years with 4+ diseases





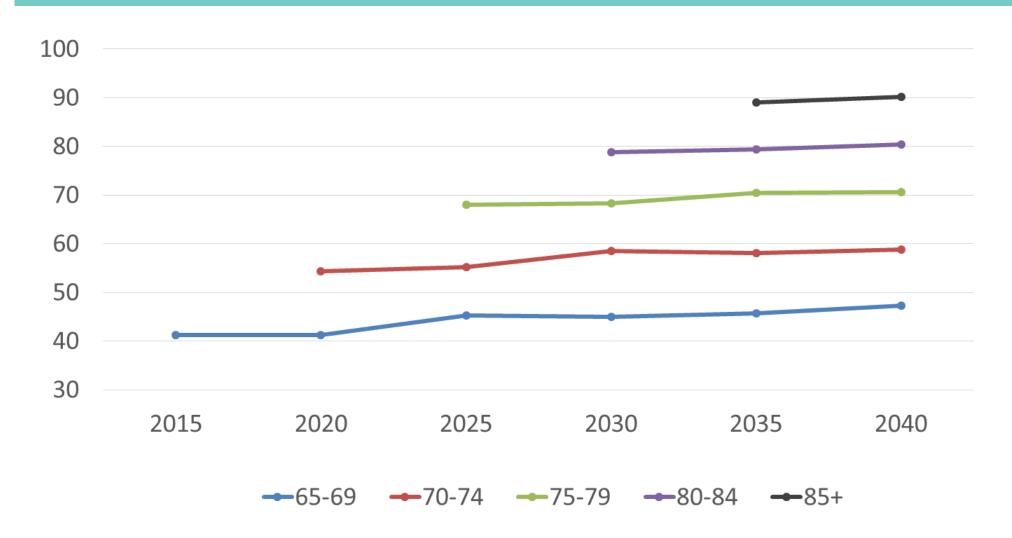
PACSim: Years gained with disease 2015-35







PACSim: Prevalence of multi-morbidity (2+ diseases)

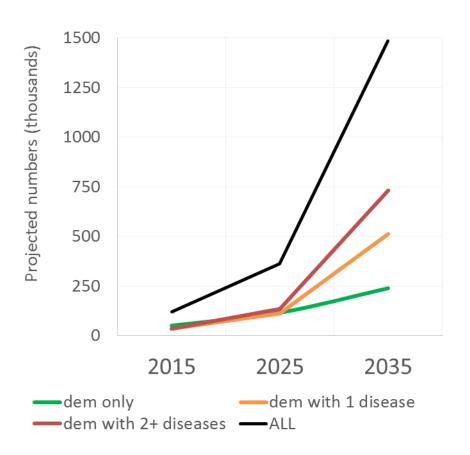




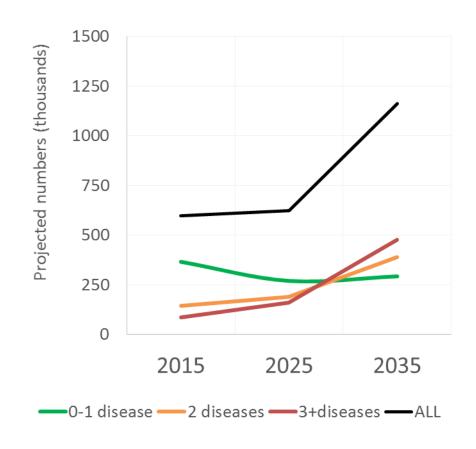


PACSim: Substantial dependency*

With dementia



Without dementia









Conclusions

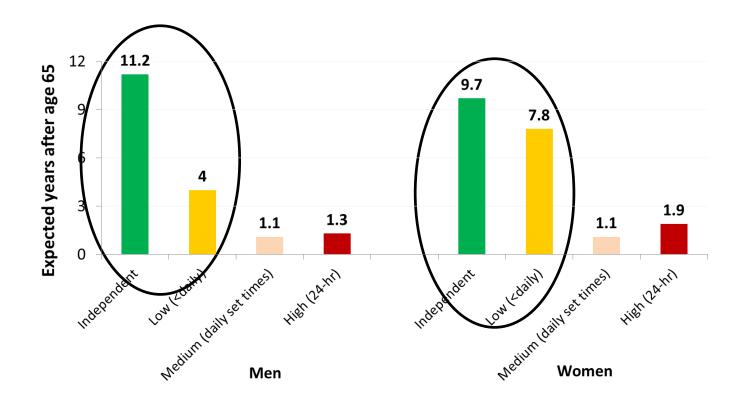
- In the UK, policy (and individual choice) have resulted in fewer older people with substantial dependency living in residential care
- The residential care population therefore has become more concentrated at the high care needs end
- This is likely to continue in the future as the residential care population (and those with high care needs in the community) will have even more complex needs specifically dementia alongside two or more other conditions
- At present, individuals, families and care providers should plan for on average 1 year spent requiring care daily and between 1 (men) and 2 (women) years spent requiring 24-hr care
- What is the solution?????





The solution

 Most years are spent independent or with low dependency – aim to stay here longer to reduce time spent more dependent?















News, UK, Home News Demand for care home places Will soar by more than three quarters in less than Almost 190,000 more elderly people will require care by 2035, amid backdrop of rising costs and cuts to funding in 'crisis' ridden care sector

20 years, study shows

Number of Britons living with chronic

Life expectancy set to increase but sedentary lifestyles will lead to

illnesses set to rise

more chronic illnesses, says report

Social care

UK needs 71,000 more care home places in eight years, study predicts Britain faces a worsening social care crisis with people living longer but with

Find an extra 71,000 beds ... and soon, care homes told





Top school bans pupils from having relationships



Lazy lifestyles to cause surge in serious illness







Acknowledgements

CFAS studies collaboration



























- Dr Andrew Kingston
- Colleagues in Newcastle
 University Institute of
 Health & Society
- Australian Centre of Excellence in Population Ageing Research (CEPAR)

MODEM

modelling outcome and cost impacts of interventions for dementia















Thank you

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4th International Conference of Long-term Care Directors and Administrators

1-3 AUGUST 2018 UNSW SYDNEY



Dependency trends in Australia

International Conference on Long Term Care Sydney, 2 August 2018



Overview

- General dependency trends
 - age structure; life expectancy; disability; disability-free life expectancy
- Care trends
 - mix of institutional and community-based care; age of admission; acuity of residential care needs
- What's the role of dementia?

I would expect this slide set to be circulated, so no need to scribble down references or take pictures—unless, of course, you want to!



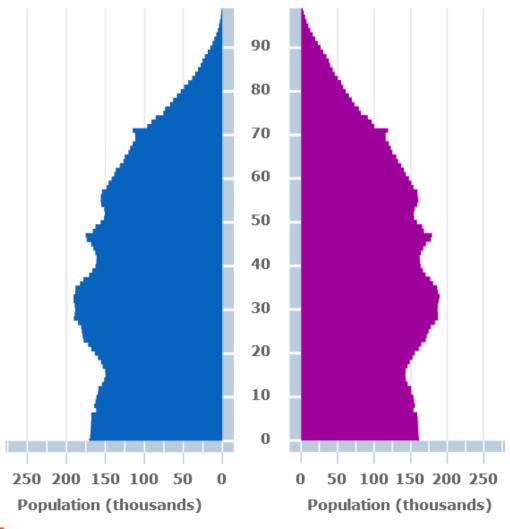
Dependency trends







Population 2018



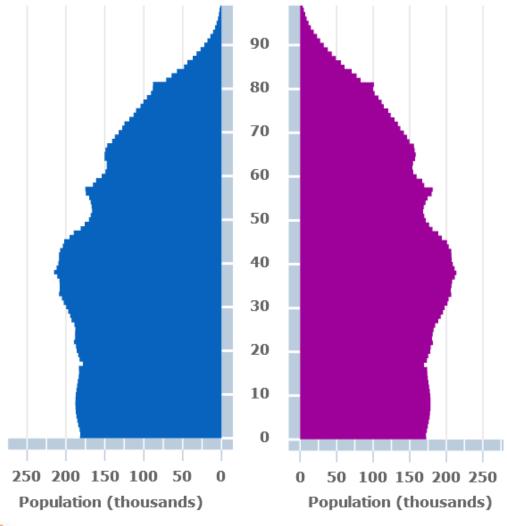
Total 25.2m

65+ 3.9m including 85+ 0.5m





Population 2028



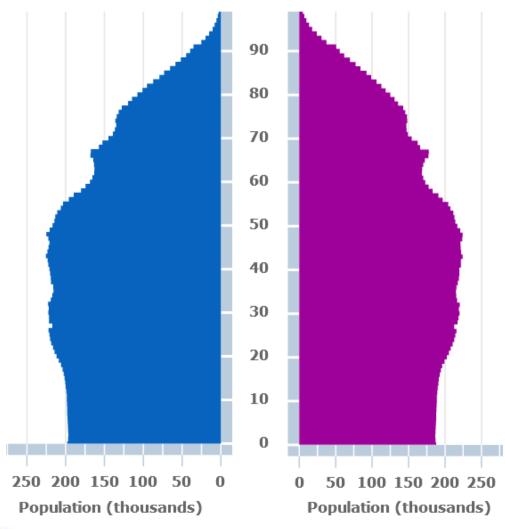
Total 29.3m

65+ 5.3m including 85+ 0.7m





Population 2038



Total 33.2m

65+ 6.6m including

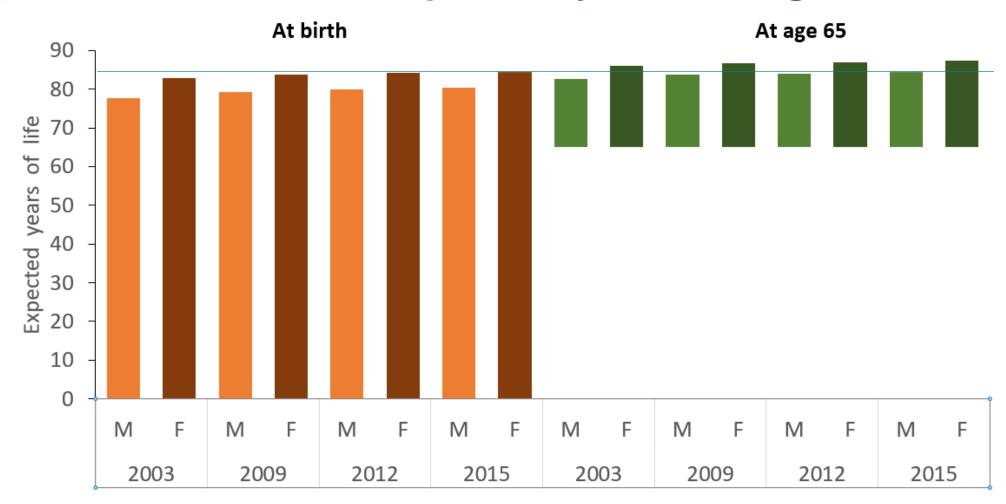
85+ 1.1m

Up 120% since 2018





Life expectancy increasing





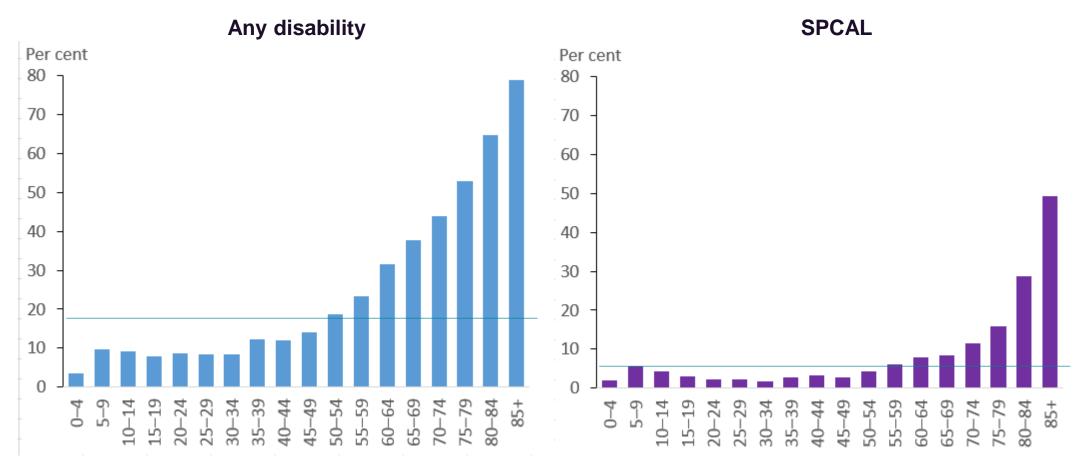


Disability definitions

- Based on Australian Bureau of Statistics' implementation of International Classification of Functioning, Disability and Health (ICF)
 - Any disability
 A limitation, restriction or impairment, which has lasted, or is likely to last, for at least six months and restricts everyday activities.
 - Severe or profound core activity limitation (SPCAL)
 A person sometimes or always needs help with one or more of the core activities (mobility, self-care and communication).



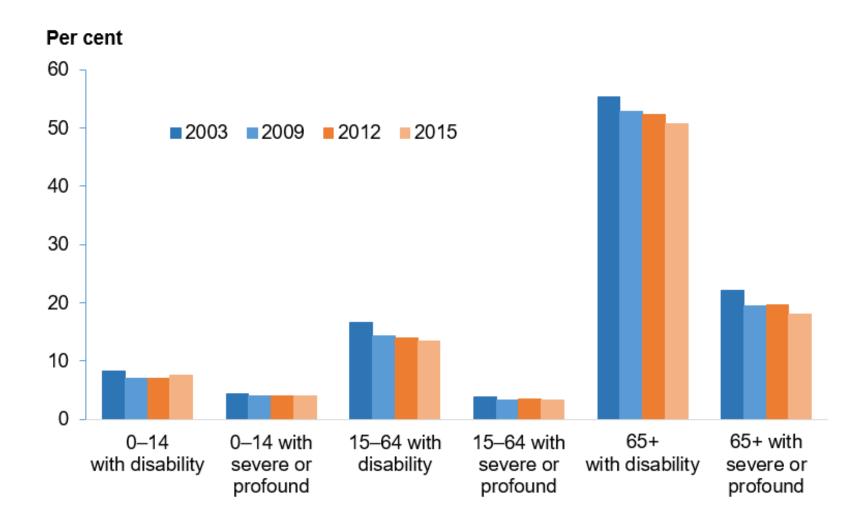
Disability prevalence, 2015





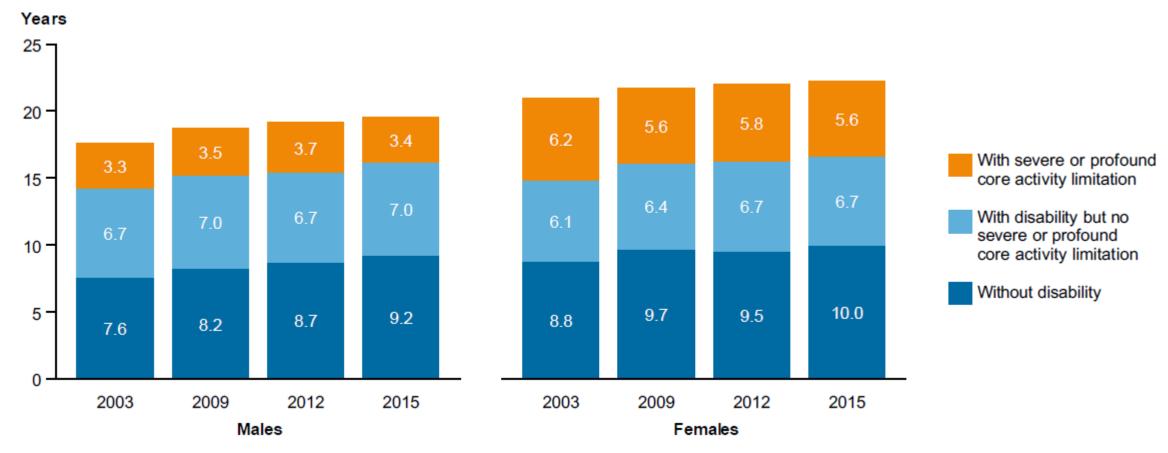


Disability trends





Disability-free life expectancy increasing (age 65)







Care trends







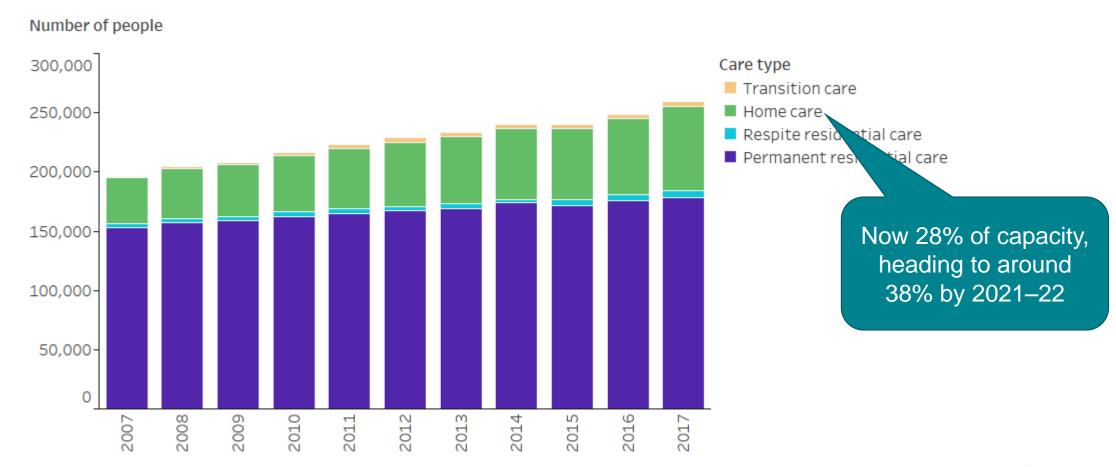
Long-term care in Australia

- Government-subsidised, universal access, no minimum age
- Means-tested capacity to pay
- Institutional = Residential Aged Care
 Non-Institutional = Home Care Package, available at 4 levels
 (plus Home Support Programme for entry-level care needs;
 plus some flexible programs covering residential and community care)
- About 1.3 million people receive some services across the year





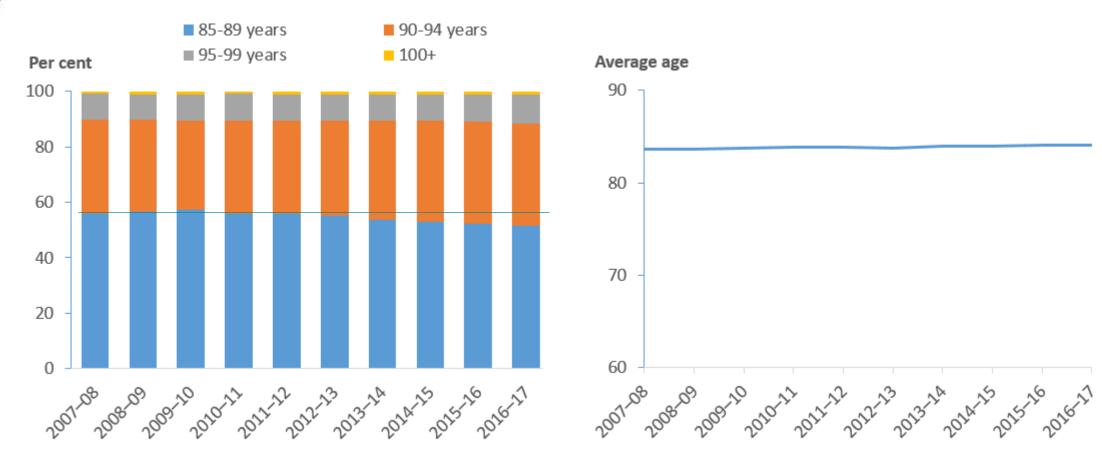
Home care accounts for most growth







Admission* age profile not changed much

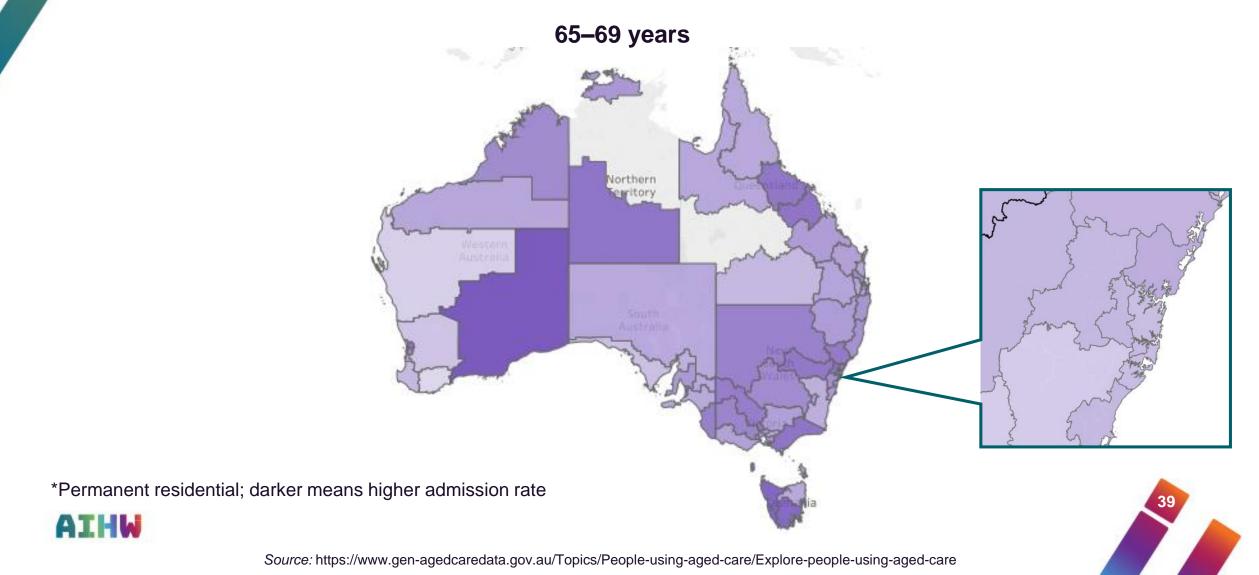


^{*}Permanent residential

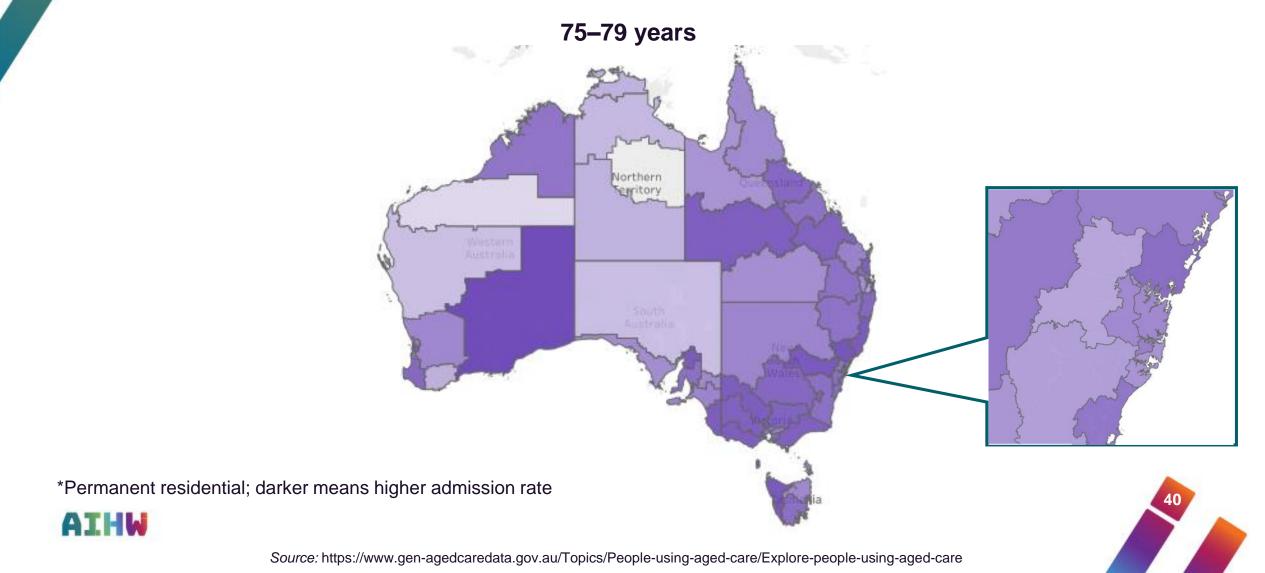




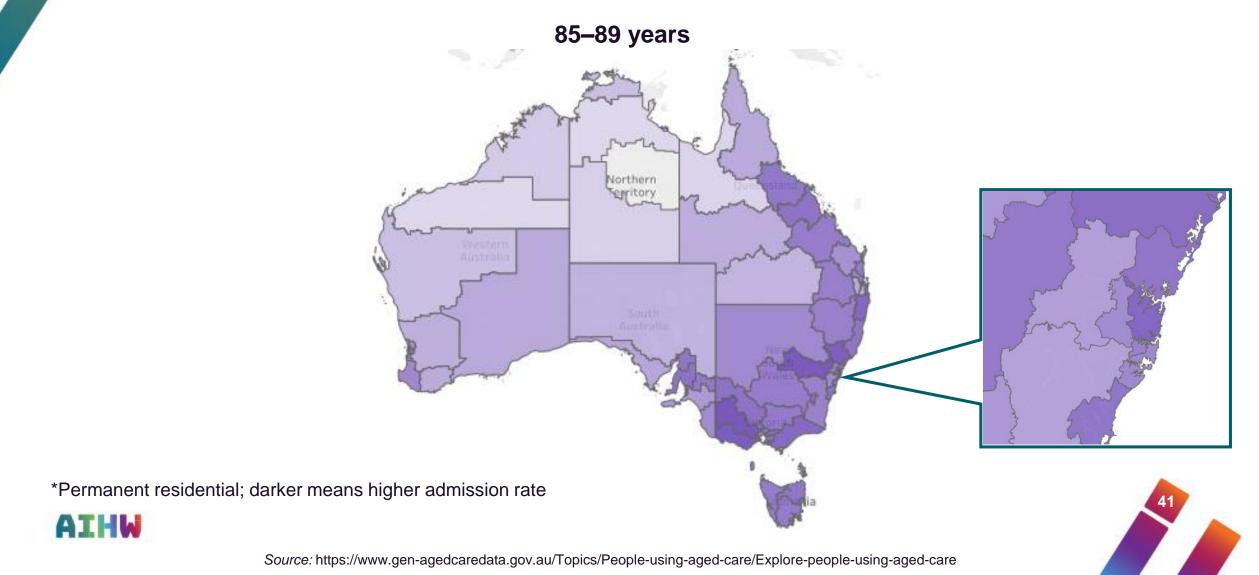
Age profile* not evenly distributed



Age profile* not evenly distributed



Age profile* not evenly distributed



About the Aged Care Funding Instrument

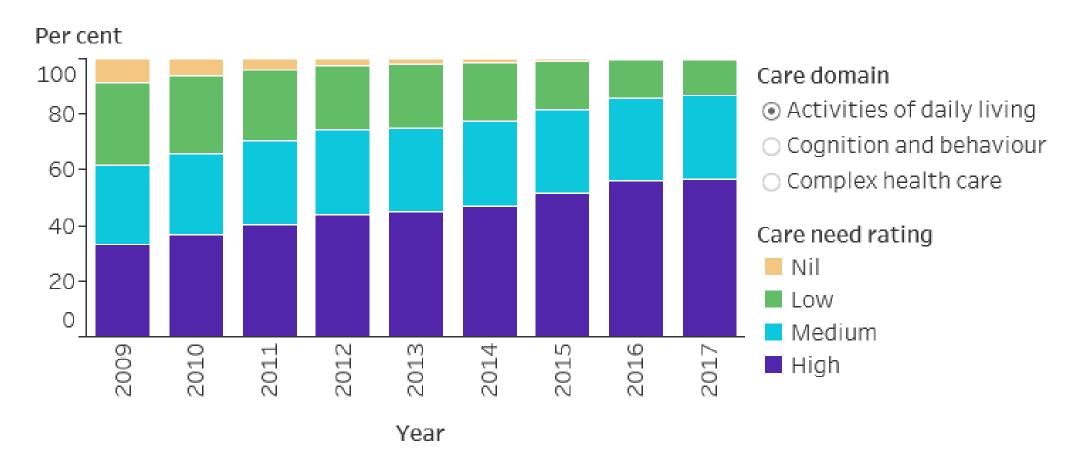
- Used to assess care needs that most contribute to the cost of care
- Applies only to permanent residential aged care clients
- Covers 3 domains, each of which can be rated as nil, low, medium, high:
 - Activities of daily living
 - Cognition and behaviour
 - Complex health care (including palliative care in the 'last days' of life)
- Evidence requirements for conditions such as dementia and depression
- Introduced in 2008





*

ADL care needs

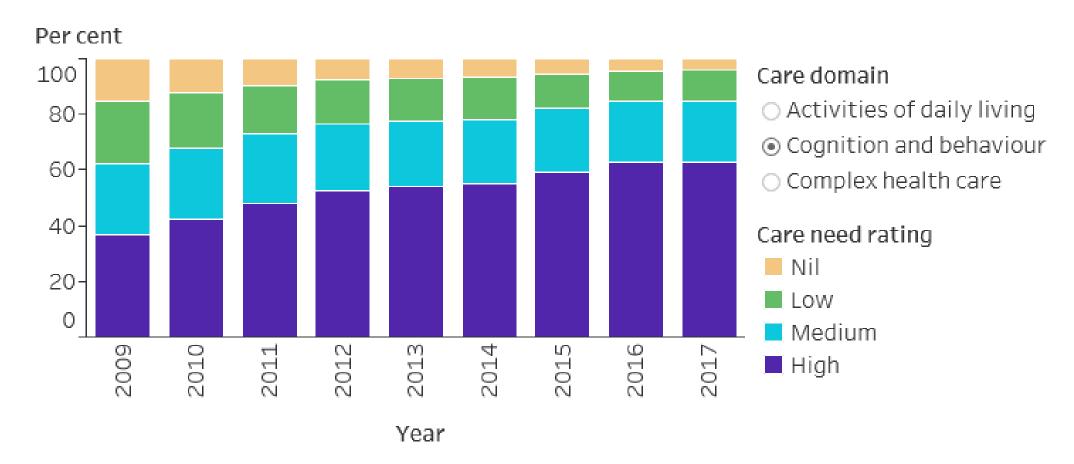






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Behaviour care needs

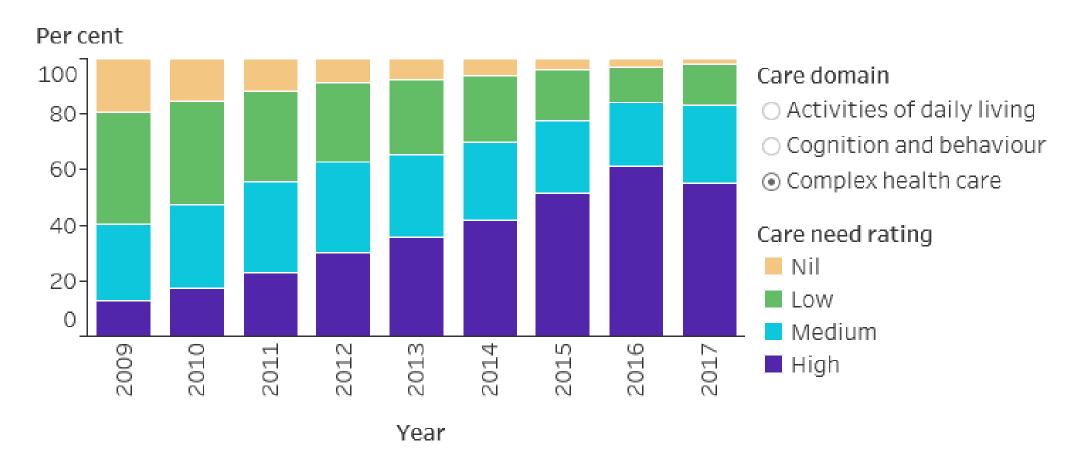






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Complex health care needs





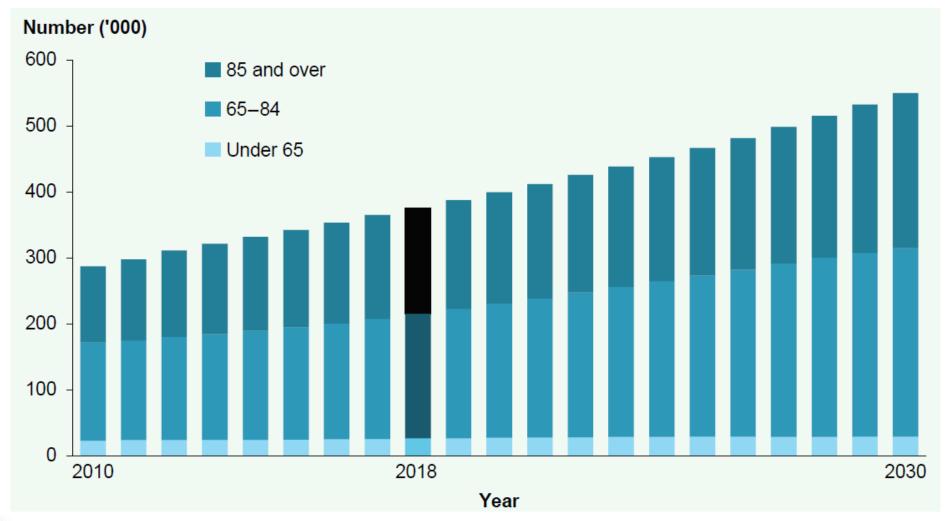


Dementia role





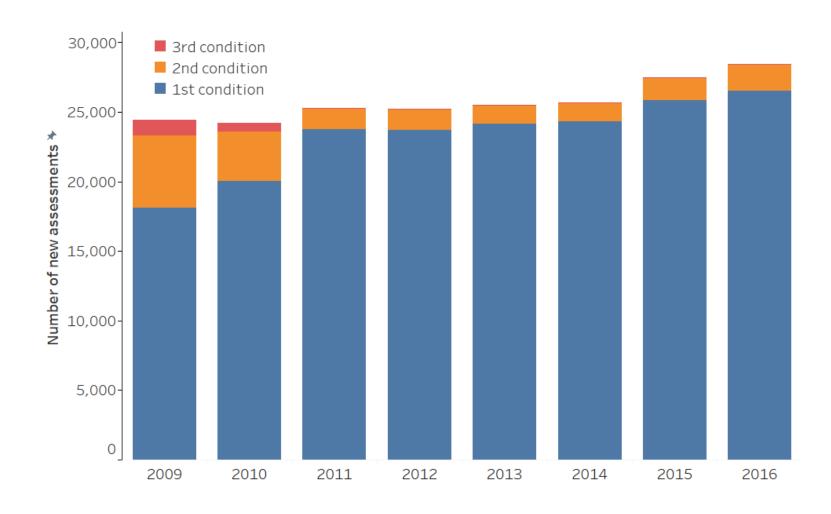
Standard dementia prevalence 'model'







Dementia on first ACFI assessment

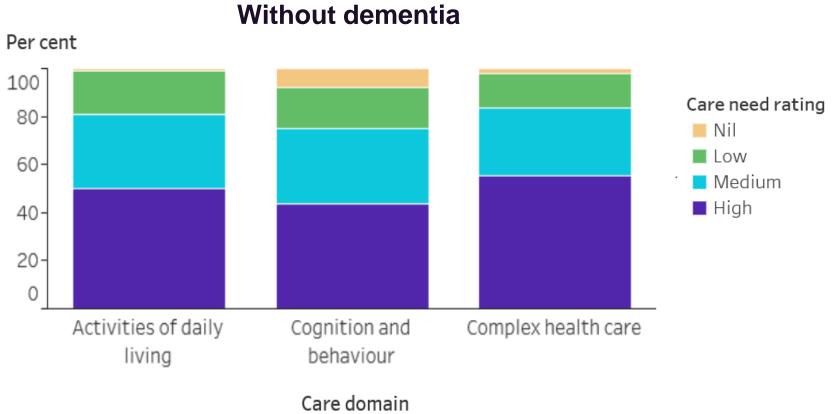








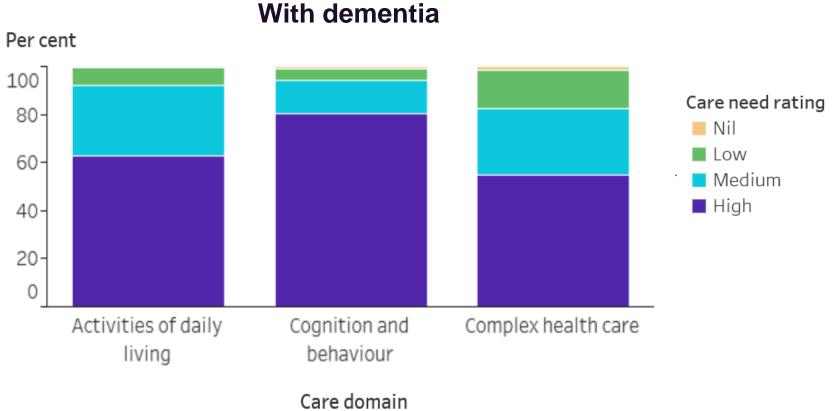
Dementia affects other care needs







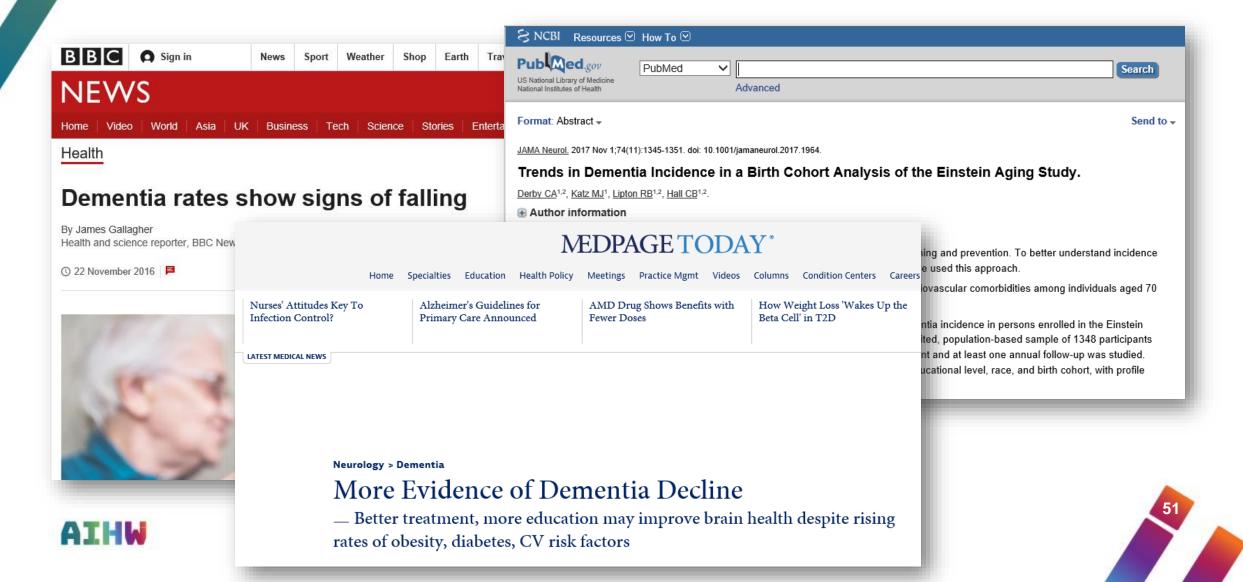
Dementia affects other care needs







But does the standard model still apply?



Summary

- Selection of indicators suggest no dramatic change in dependency levels over time, so most of the demand growth comes from demographic factors
- Home-based long term care is becoming more prominent in the mix
- While dementia is a significant driver at the moment, the longer-term impact is unclear



Contact





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Questions, comments





