



Understanding the association between restricted activity and patient outcomes in older patients: A systematic review and meta-analysis

Ishbel Henderson

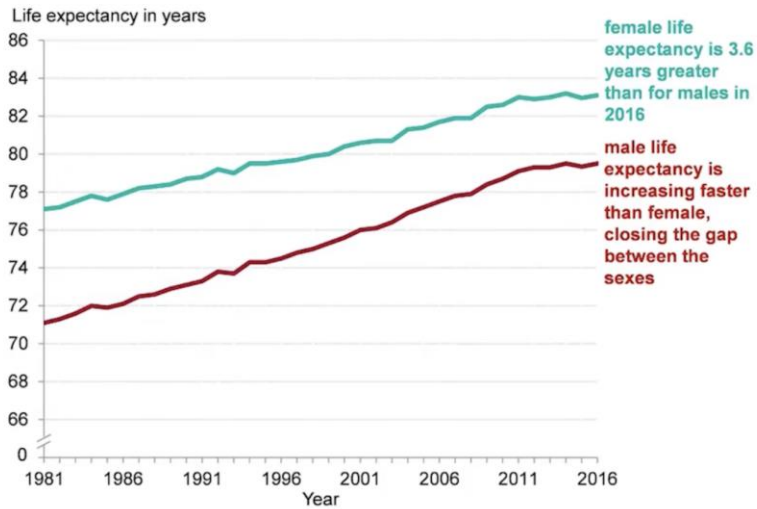
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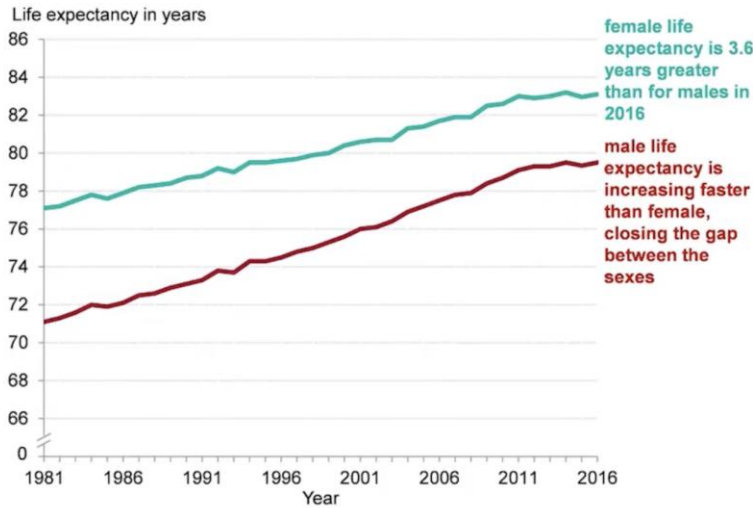
Life expectancy for males and females has been rising over recent decades



Source: Office for National Statistics life expectancy data for single years. Data for 2016 are provisional and produced by Public Health England.

Older Adults: Life expectancy and quality of life

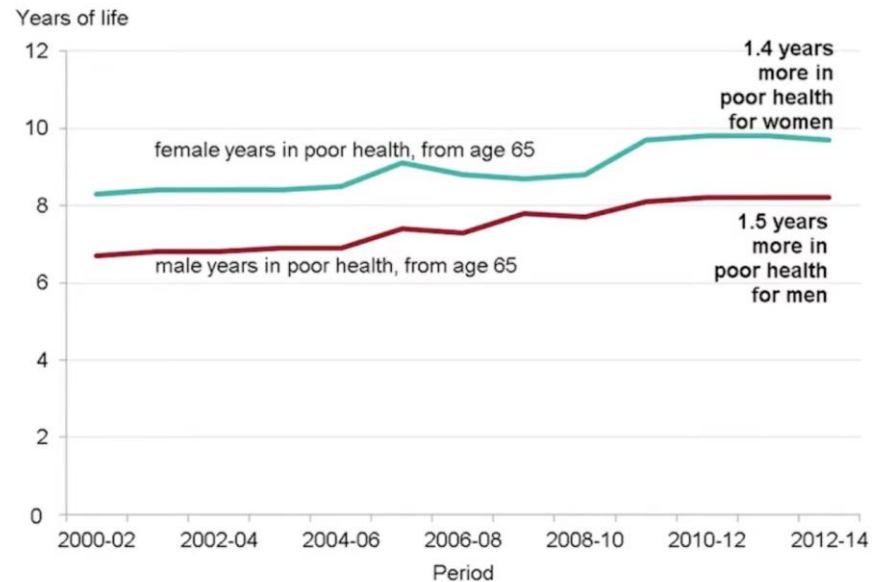
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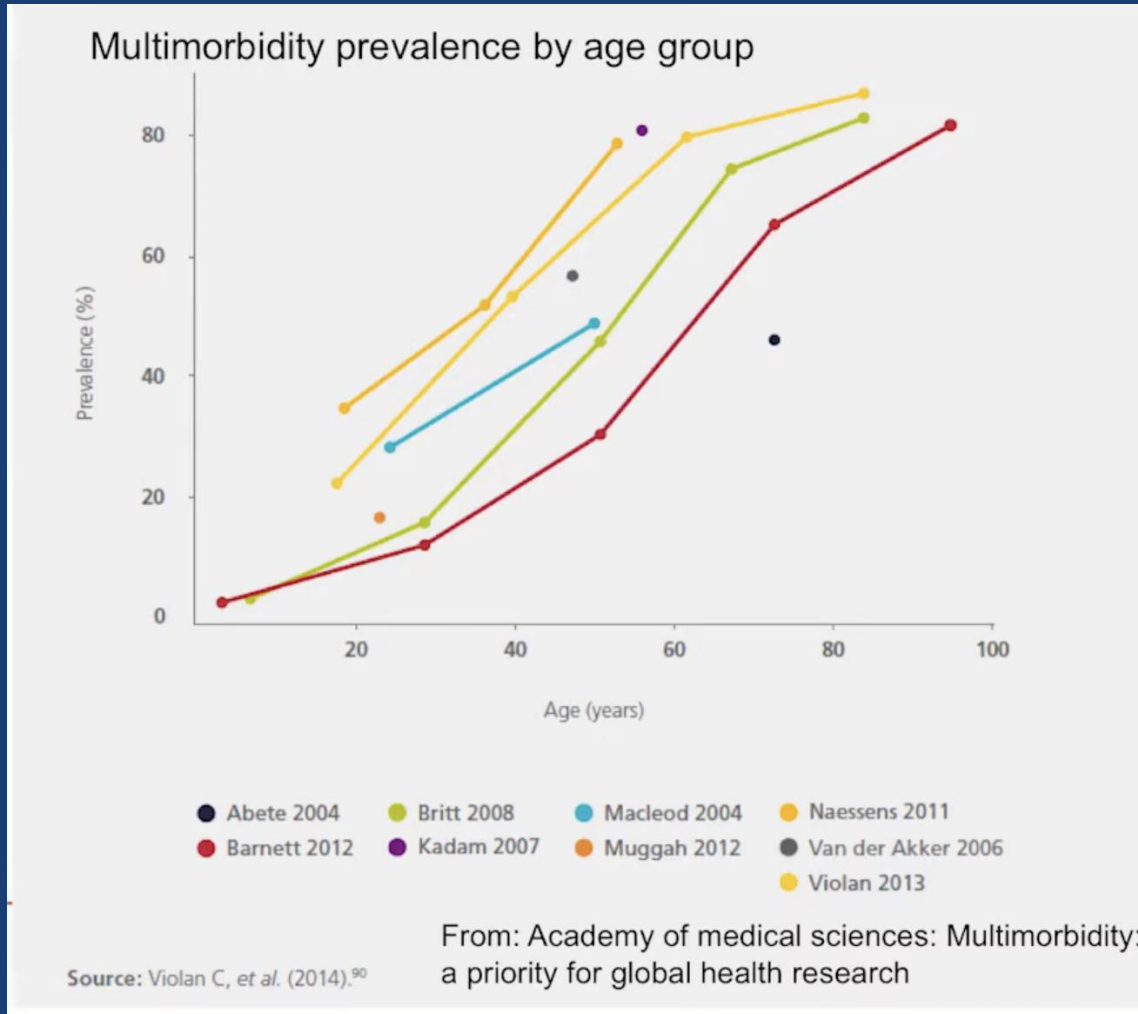
Older Adults: Life expectancy and quality of life

For both sexes years in poor health from age 65 has increased

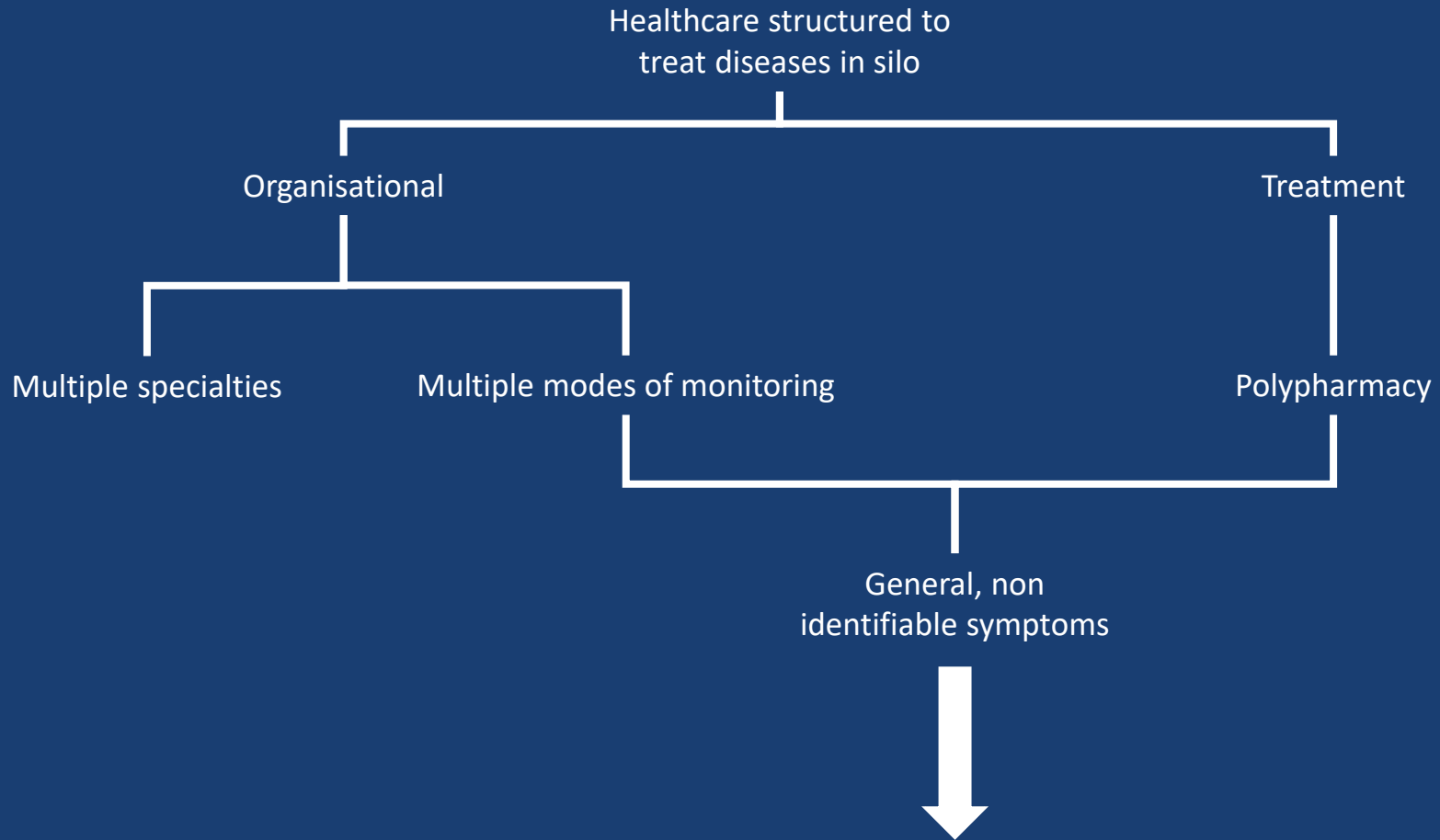


Source: Healthy life expectancies and life expectancies from ONS reports, with prevalence of good health derived from their surveys: General Household Survey/General Lifestyle Survey for years 2000 to 2002 up to 2008 to 2010, and the Annual Population Survey for years 2009 to 2011 up to 2012 to 2014.

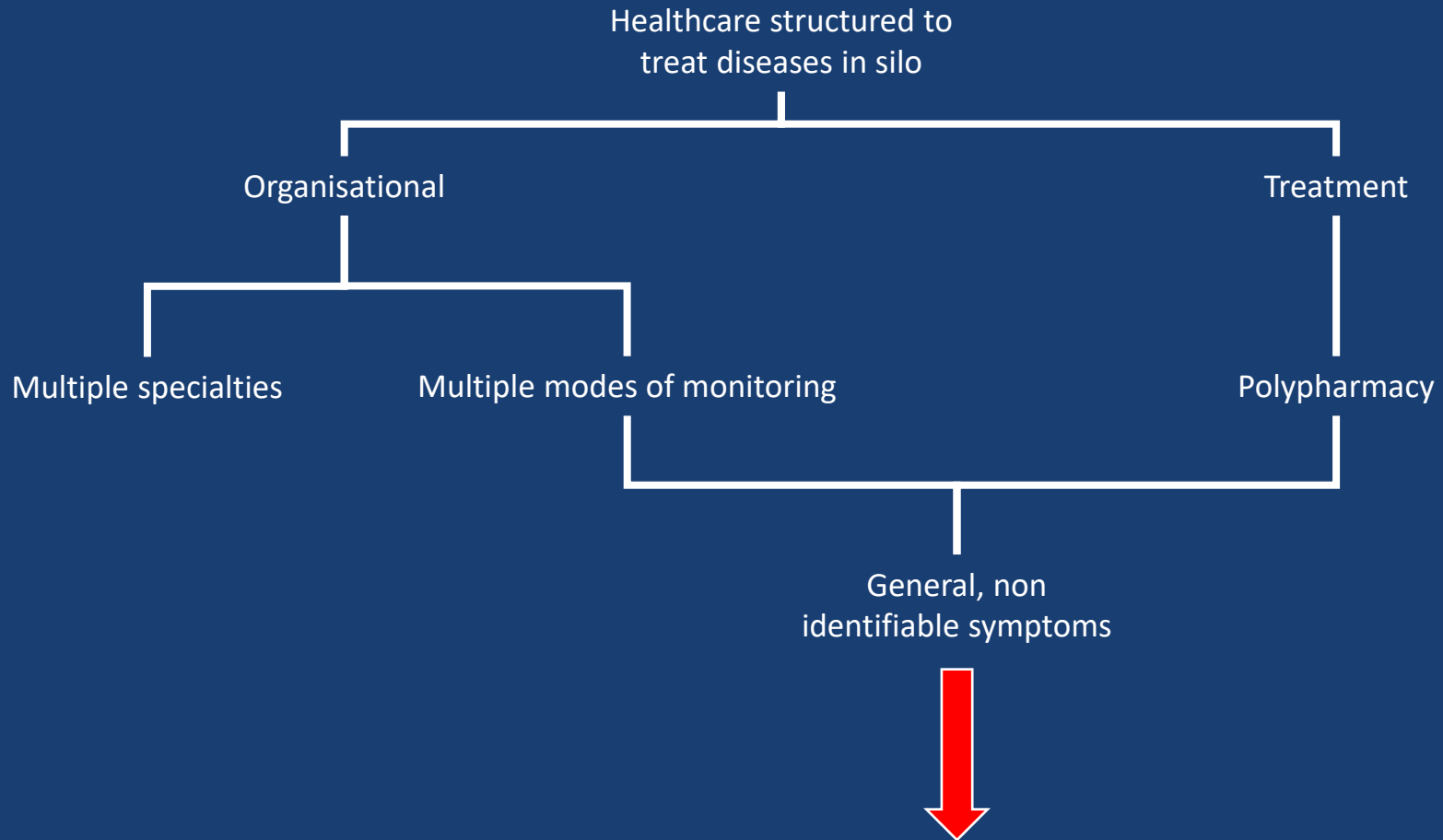
Multimorbidity Prevalence



Multimorbidity care: The big problem

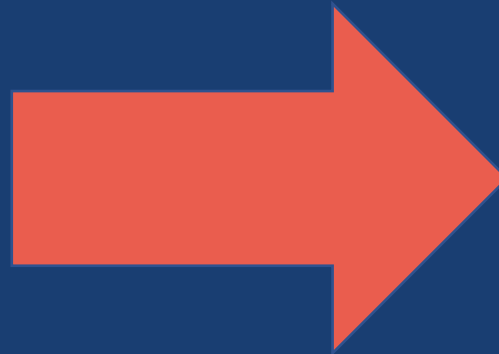


Multimorbidity care: The big problem



General measure of health

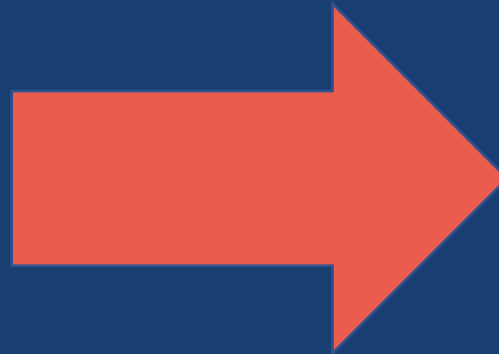
Stable



Unstable

General measure of health

Stable



Unstable

Restricted Activity

Systematic review
& Meta-analysis



Question

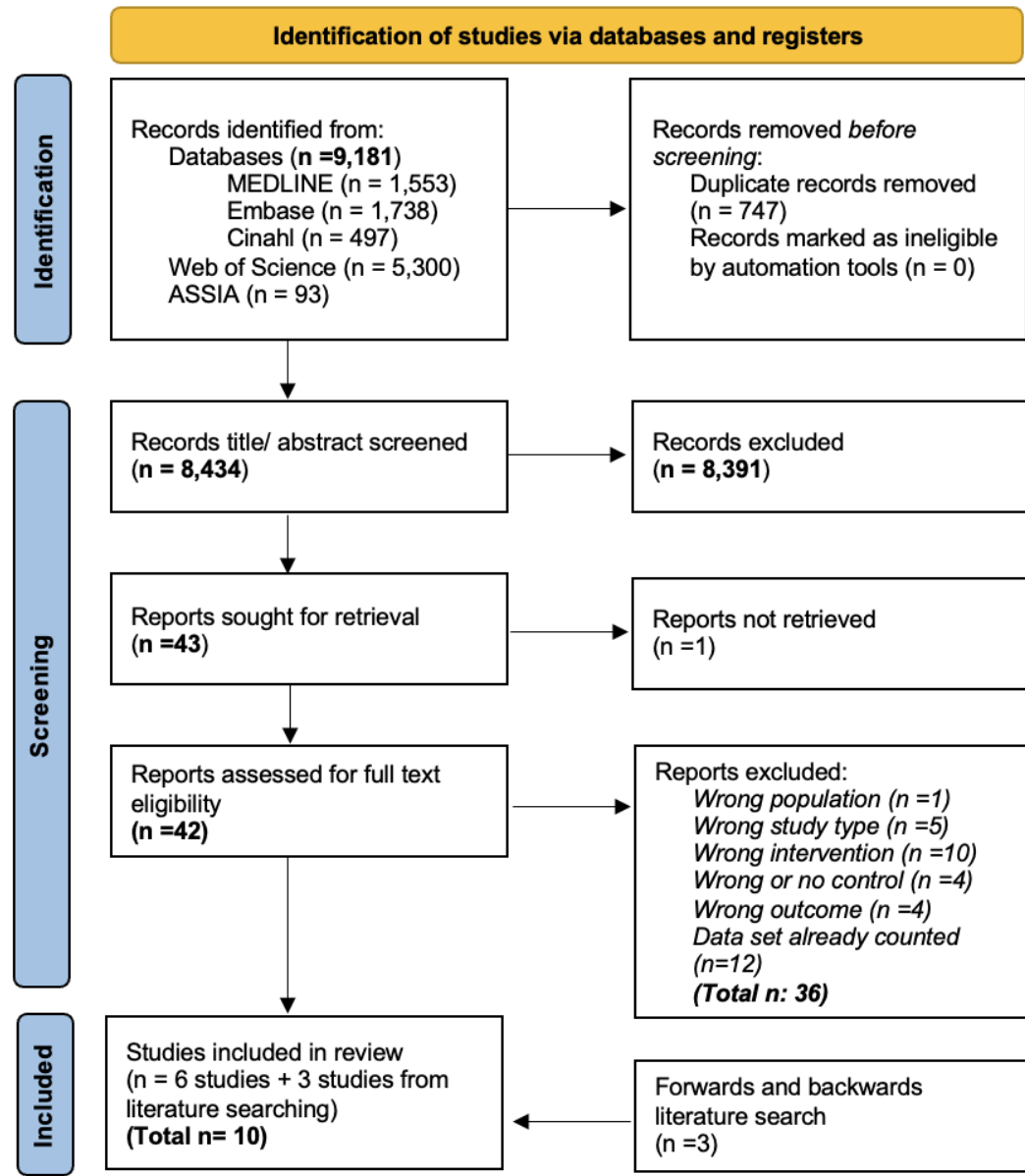
- What association does **restricted activity** have on patient outcomes, in older adults? Primarily looking at **hospitalisations**, with secondary outcomes of **cognitive decline and mortality**
- What **measures** of restricted activity have been used in the literature?



Search

*search was kept wide as no agreed definition of restricted activity

A total of 10 studies were taken forward



Results: Restricted activity definition



Reduced mobility



Bed rest

Dependency for
activities of daily living



Results: Restricted activity definition



Reduced mobility



Bed rest



Dependency for activities of daily living



What the results mean



Preliminary evidence that the different measures are associated with **mortality**, and possibly **hospital admissions**.



Limitations



Lack of adjusted data



Raw data often not reported



Heterogeneity in control measures



Studies had to be excluded



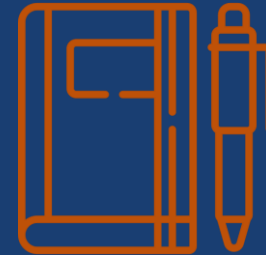
Limited studies / data on this



Lack of patient perspectives

Next steps

- Can this information be incorporated into an early warning system for declining health?
- If so, how would this be delivered?



Acknowledgments



Richard McManus



James Sheppard



Rebecca Barnes

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