Associations between body mass index and health conditions: do they change across generations?

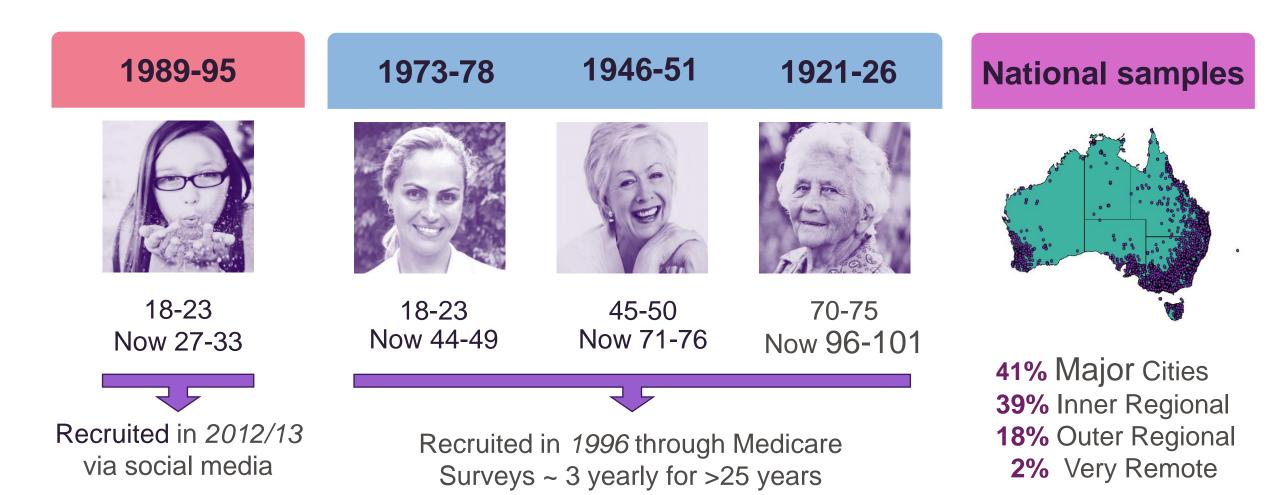
Presenter Annette Dobson

University of Queensland, Brisbane, Australia 25th September 2024, Cape Town



Australian Longitudinal Study on Women's Health of Queensland

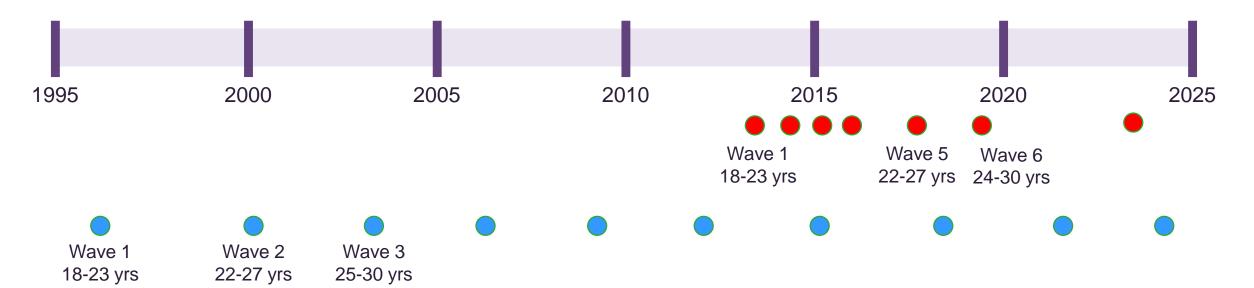




Number of participants in each cohort at baseline 12,000 – 15,000

Comparing two younger cohorts at the same ages





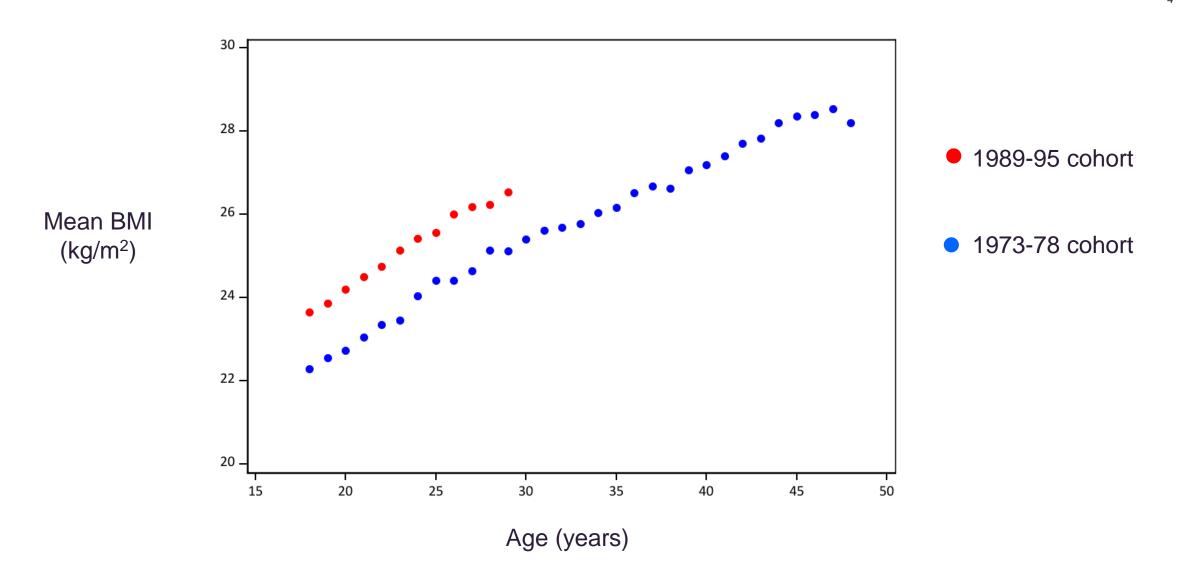
1989-95 cohort			1973-78 cohort		
wave	year	age	wave	year	age
1	2013	18-23	1	1996	18-23
5	2017	22-27	2	2000	22-27
6	2019	25-30	3	2003	25-30

~ 6000 women in each cohort repeated data at each wave

Same ages 16-17 years apart

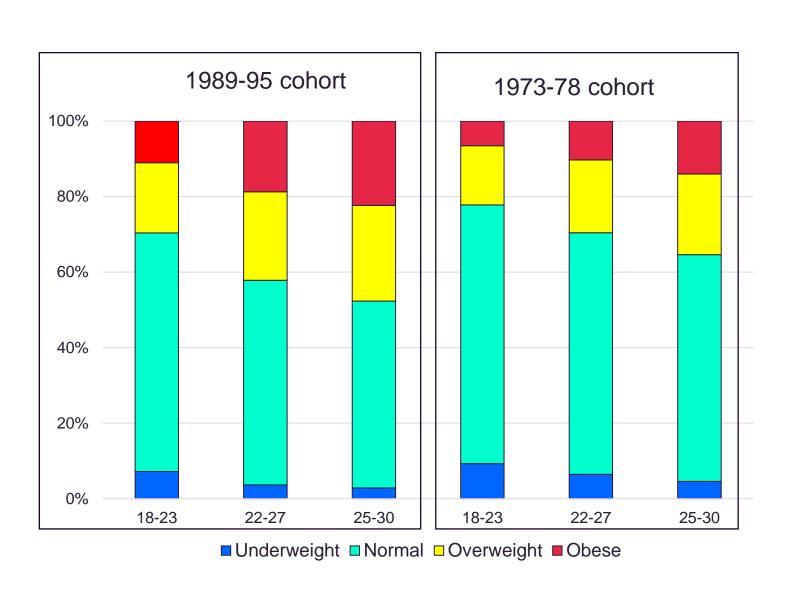
Mean BMI increased with age and was higher in 1989-95 cohort of Queensland





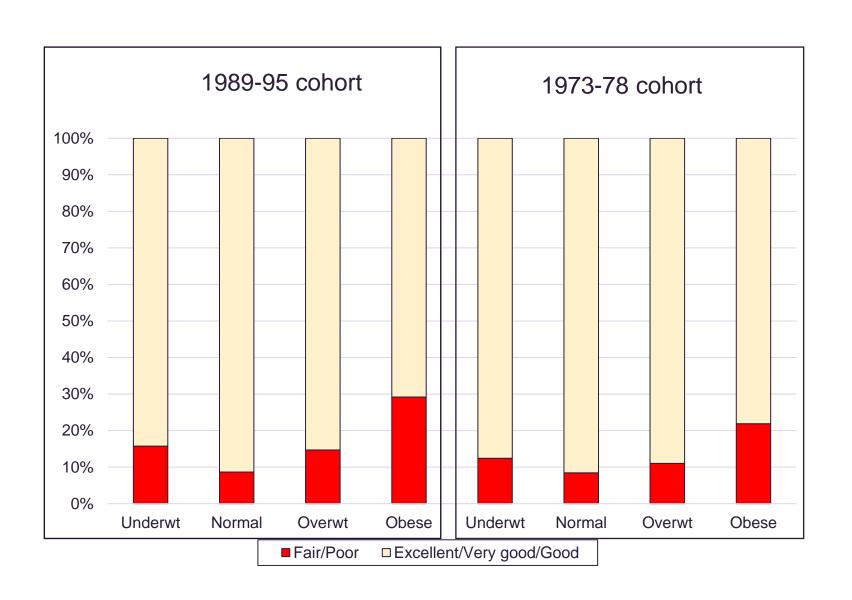
Body Mass Index (categories) by cohort and age





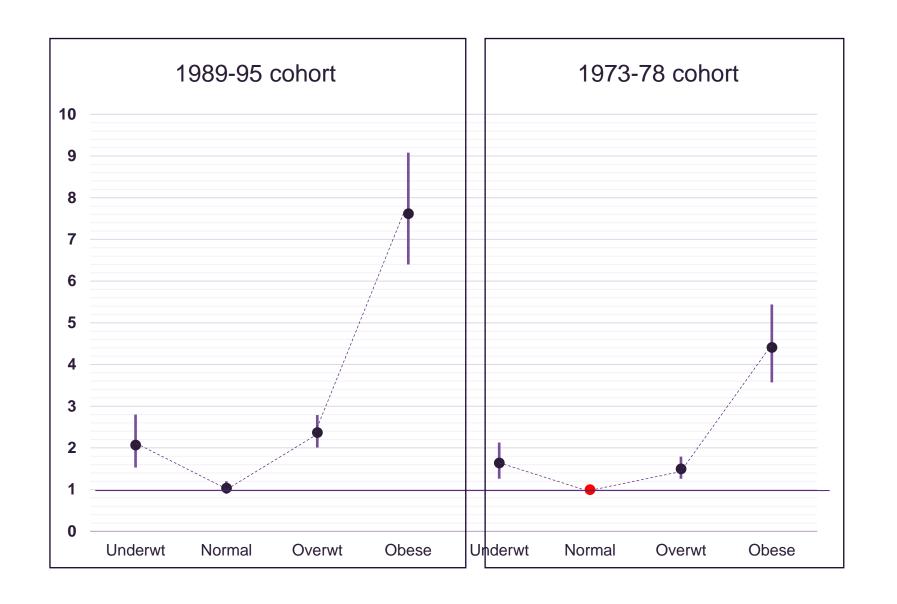
Fair/poor self-rated health by BMI category and cohort





Odds ratios for fair/poor self-rated health by BMI category of QUEENSLAND





Summary of patterns of various conditions and BMI categories

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AUSTRALIA		

Condition	1989-95 cohort		1973-78 cohort	Age effect
Self-rated health - fair/poor	U	>	U	none
Back pain - often	U	>	U	decrease
Depression – often	U		J	little
Leaking urine – often	U		J	slight increase
Period pain – often	J		U	decrease
Premenstrual tension – often				decrease
Irregular periods	U	>	U	slight decrease
Heavy menstrual bleeding	J		J	decrease

Conclusions



- Women in the more recent cohort were more likely to be overweight or obese
- They experienced conditions common in this age group at the same or higher levels than the earlier cohort at the same age and BMI category
- ➤ The results provide strong evidence that they are fatter but not fitter

Thank you