

SUCCESSFUL AGEING AND LONGEVITY AMONG AUSTRALIAN WOMEN

Professor Julie Byles

Global Innovation Chair in Responsive Transitions in Health and Ageing
The Research Centre for Generational Health and Ageing, The University of Newcastle
Julie.byles@Newcastle.edu.au

Director Australian Longitudinal Study on Women's Health

With thanks to
Mijanur Raman (statistics)
Jenny Helman and Meredith Tavener (Interviews and Qualitative Analyses)









Funded by the Australian Department of Health in 1995:

To examine social, psychological, physical and environmental factors which determine good health, and those which cause ill-health, in women throughout adult life

- physical and mental health, symptoms, diagnoses
- health service use, access and satisfaction
- health related behaviours
- social factors related to health and well-being

- To contribute to development of policy and practice in key areas for women's health
 - National Health Priority Areas
 - Health Targets e.g. Continence, Quality Use of Medicines, National Tobacco Strategy, Obesity Taskforce, Framework for Physical Activity, Mental Health, Abuse, Dementia, End of Life ...





Four cohorts, over 57,000 women





Recruited through Medicare



1989-95

1973-78

18-23 in 2013

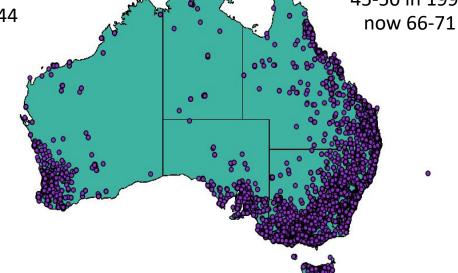
Now 22-27

18-23 in 1996 now 39-44 **1946-51** 45-50 in 1996

70-75 1996 now 92-97

1921-26

Recruited through Social networking



Australian Longit Study on Women's

1921-26: 3 yearly Postal Surveys 1996-2011 ... 6 monthly

70-75......85-9090+



Conditions/ symptoms/ procedures, Health Care Use, medications, health insurance, SF-36 quality of life, depression/anxiety, smoking, alcohol, BMI, physical activity, diet, sleep, life events, marital status, living arrangements, housing, abuse, manage on income, caring, support, optimism ...

.. continence, memory, falls, teeth, services, transport, ADLs, housing, volunteering, age discrimination, social activities

Linked to: MBS, PBS, Hospital, Aged Care, Cancer, Death Data



Surveys and data books www.alswh.org.au

Have we missed anything?

- Free text comments
- Qualitative data allows us to get a sense of how women cope with their everyday, as they age and in relation to life events
- Eg. Kennaugh R, Byles J, Tavener M. Beyond widowhood: Do prior discovered themes that describe the experiences of older Australian widowed women persist over time? Women and Health, 2016; 56(7): 827-42.
- 56% of the women
- 1,239,859 words
- women who wrote tended to have lower physical function, poorer general health and lower social function than women who did not write- except for women > 82-87, where there were no differences.
- Wide range of experiences
- Consistent narrative

Interviews with women aged 92-97

Have we missed anything?

If you have anything else you would like to tell us, please write on the lines below.

You may also like to take a moment to check you have not
missed any questions or pages.

9			
,			
,			

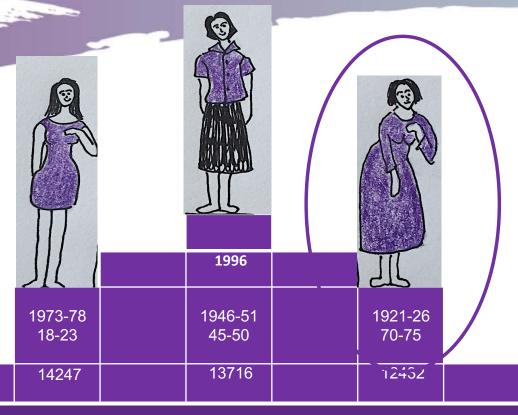
Thank you for taking the time to complete this survey.

If you need help to answer any of the questions, you can contact us by telephoning 1800 068 081 (Freecall)

When you have completed the survey, please sign the next page and send the survey back to us as soon as possible. We will detach the consent form and store it in a separate locked room.

women's health

Australian Longitudinal Study on Women's Health, 1996





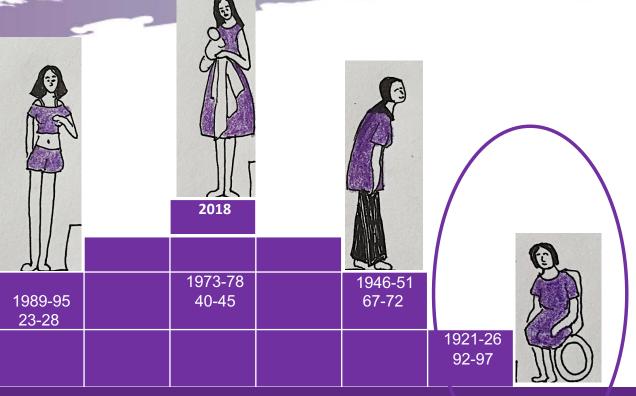
Three Cohorts, over 40,000 women, Three generations of women's health



women's health

AUSTRALIA

Australian Longitudinal Study on Women's Health, 2018



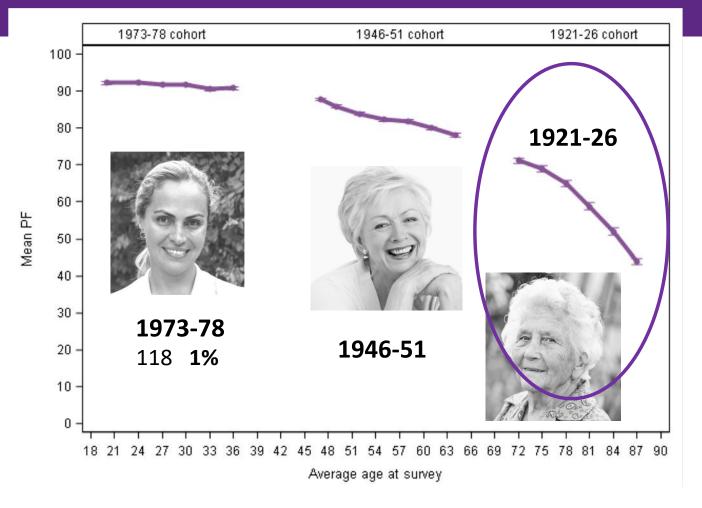


2018





Change in Physical Function Scores



By 2011: 17% diabetes 70% arthritis 17% asthma 40% heart disease 70% hypertension 12% stroke

Byles et al. Chronic conditions, physical function and health care use. June 2015

www.alswh.org.au

29% dementia Waller et al. 2017)

Australian Longitudinal Study on Women's Health

Changes in Physical Function Surveys 1-6 +6MF



1921-26 cohort:

Are these women ageing well?
Successful Ageing?
Healthy Ageing?

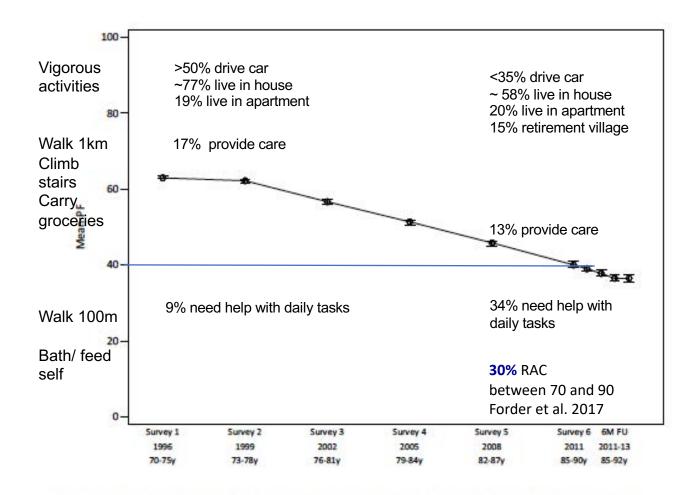
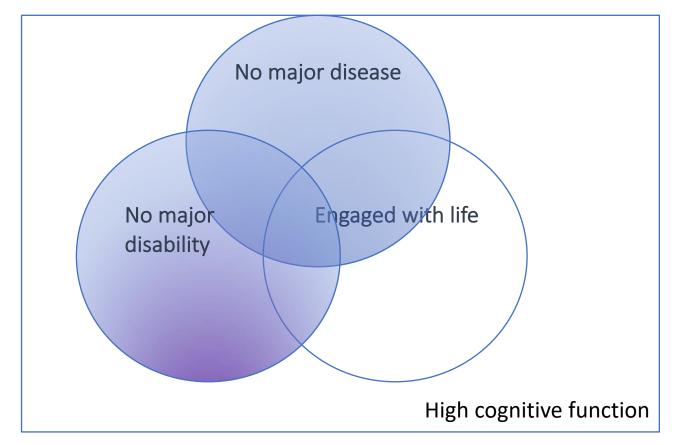


Figure 3-10 Mean physical functioning score from Survey 1 to Six Monthly Follow-Up Survey 4

SUCCESSFUL AGEING



Rowe JW, Kahn RL. Human aging: usual and successful. Science (80-). American Association for the Advancement of Science; 1987;237:143–50.

Conditions reported by women at Survey 1 (age 70-75)

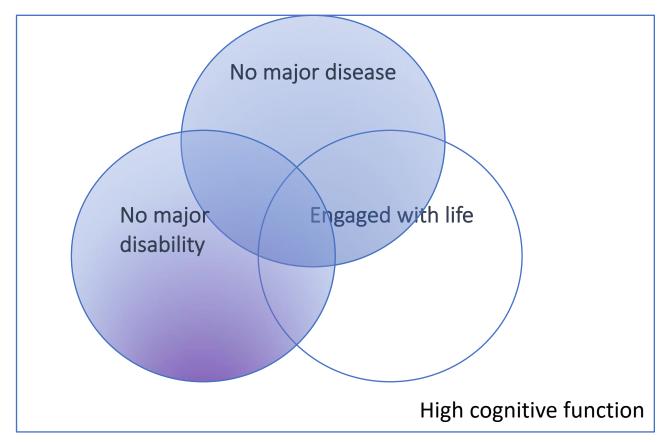
Chronic condition (Overall	i i	Arthritis	Diabetes	Heart disease	Hypertensi on	Stroke	Thrombosis	Low iron	Asthma	Bronchitis	Osteoporosi s	Skin cancer	Other	
Arthritis	(39%)	5	10	21	53	7	12	18	16	22	29	27	9	
Diabete		44	1	34	65	0	13	15	15	18	18	23	9	
Hypert	(17%) tension (48%)	49	18	22	61	13	16	19	17	23	26	27	10	
	e (6%)	47	18	41	69	0	22	20	15	22	27	30	13	
Inro	mbosis (9%)	53	14	31	56	14	0	27	19	27	30	32	13	
Low iron	(15%)	49	9	22	47	7	16	1	17	27	29	31	10	
Asthma		49	0	23	52	6	12	20	1	48	27	28	11	-
Bro	nchitis (17%)	49	10	23	50	7	14	23	36	1	28	31	11	_
Osteo	porosis (20%)	57	8	22	50	7	13	22	18	24	2	30	9	_
il l	cancer (25%)	42	8	18	49	0	1	19	15	21	24	3	11	-
h Other	cancer (9%)	41	10	20	46	0	14	18	17	23	21	32	1	

Australian Longitudinal Study on Women's Health

SUCCESSFUL AGEING

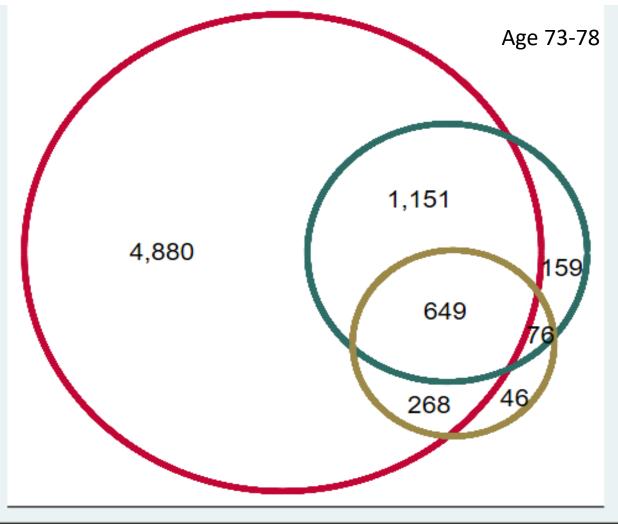
Arthritis
Heart Disease
Stroke
Diabetes
Asthma
Cancer

SF-36 physical function scores <40 (difficulty walking 500 m, climbing stairs, moderate activity)
Need for help with daily tasks



Rowe JW, Kahn RL. Human aging: usual and successful. Science (80-). American Association for the Advancement of Science; 1987;237:143–50.

Disease, disability, need help with daily tasks Survey 2 (n=10434)women)

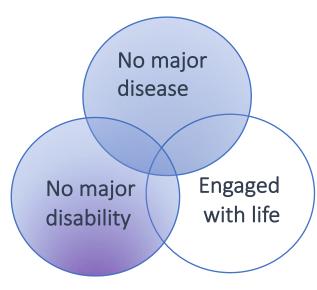


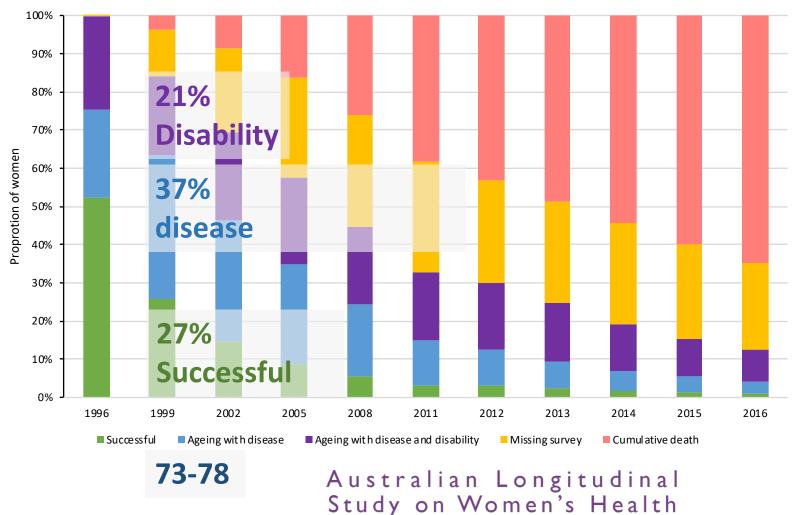


SUCCESSFUL AGEING

1921-26 cohort 12432 women

Arthritis (S2)
Heart Disease
Stroke
Diabetes
Asthma
Cancer



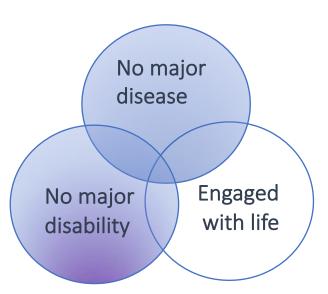


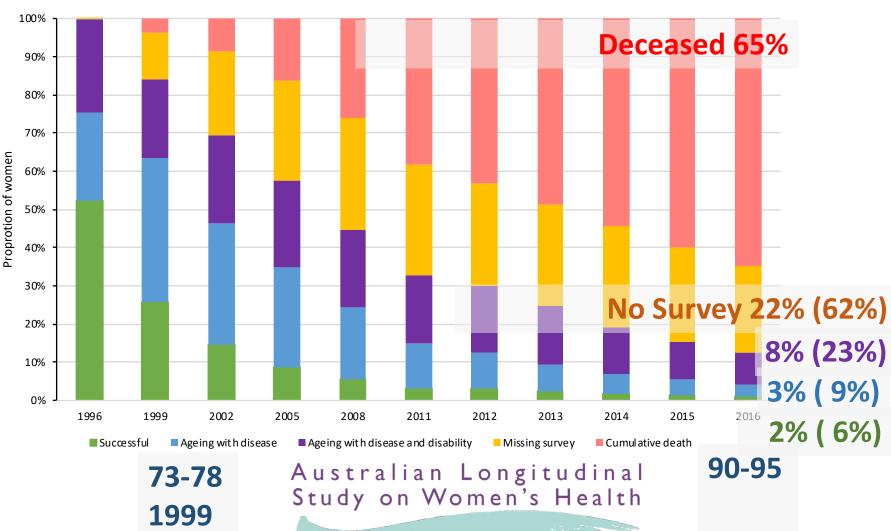
Rowe JW, Kahn RL. Human aging: usual and successful. Science (80-). American Association for the Advancement of Science; 1987;237:143–50.

SUCCESSFUL AGEING

1921-26 cohort 12432 women

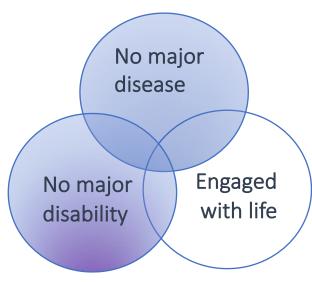
Arthritis (S2)
Heart Disease
Stroke
Diabetes
Asthma
Cancer (not skin)

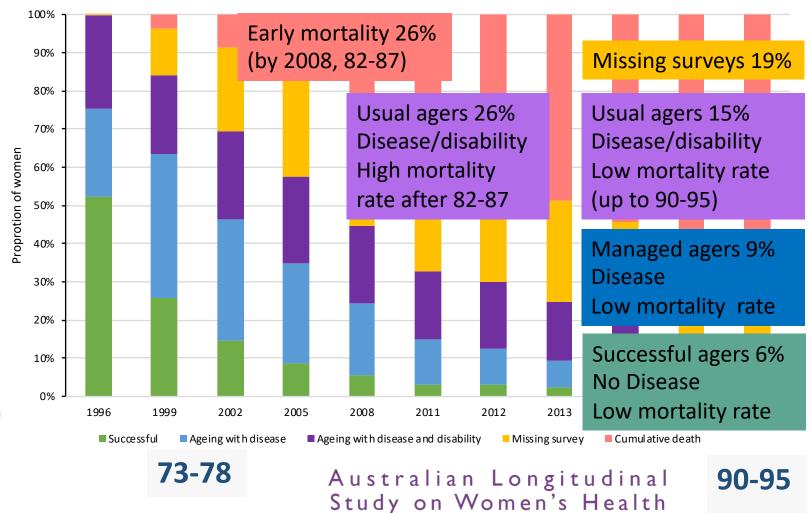




SUCCESSFUL AGEING: LCA

Arthritis (S2)
Heart Disease
Stroke
Diabetes
Asthma
Cancer (not skin)





Rowe JW, Kahn RL. Human aging: usual and successful. Science (80-). American Association for the Advancement of Science; 1987;237:143–50.



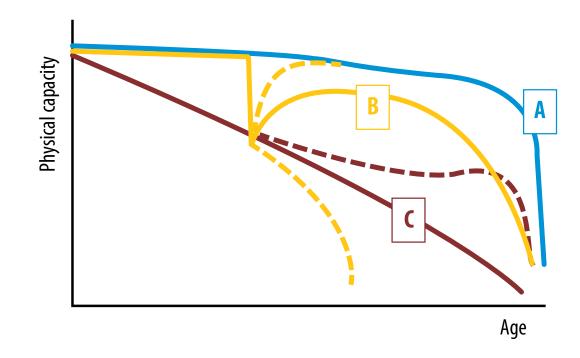


"building and maintaining for as long as possible of the functional ability that enables older people to be and to do the things they have reason to value"

WORLD
REPORT
ON
AGEING
AND
HEALTH

HEALTHY AGEING

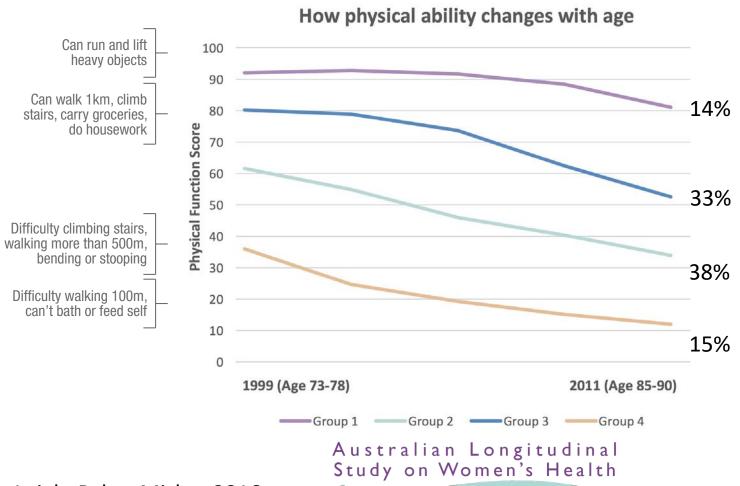
Fig. 2.2. Three hypothetical trajectories of physical capacity



- A. Optimal trajectory, intrinsic capacity remains high until the end of life.
- B. Interrupted trajectory, an event causes a decrease in capacity with some recovery.
- C. Declining trajectory, capacity declines steadily until death. The dashed lines represent alternative trajectories.

Patterns of change in physical function

(n= 5928 surviving women)



Baseline factors associated with POOR Physical Function (Odds Ratio)

DISEASE

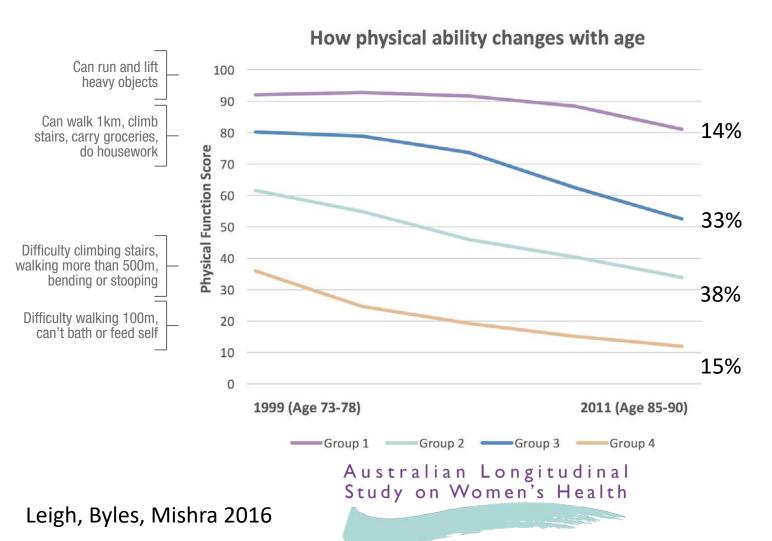
Arthritis (OR 11.1),
Stroke (OR 4.4),
Osteoporosis (OR 4.3),
Heart Disease (OR 4.9),
Diabetes (OR 3.5),
Hypertension (OR 3.2),
Bronchitis/emphysema (OR 2.4)
Asthma (OR 2.0).

COMORBIDITY OR ~ 3.0

Leigh, Byles, Mishra 2016

Patterns of change in physical function

(n= 5928 surviving women)



Baseline factors associated with POOR Physical Function (Odds Ratio)

EDUCATION

Higher education (OR 0.38)
 62% less likely to have poor PF

EXERCISE

Highest PA class (OR 0.04)
96% less likely to have poor PF
Low PA class (OR 0.19)
81% less likely to have poor PF (OR 0.19)

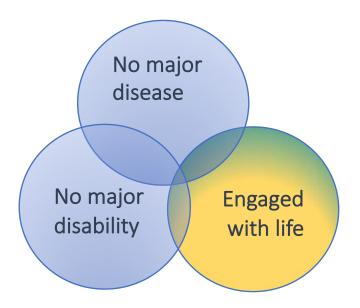
BMI

- Overweight (OR 5.02)
- Obese (OR 26.2)

SMOKING

- Current smoker (OR 2.9)

Engagement with life to do the things they have reason to value



Interviews with women aged 92-97 – 18 to date

Funded by: Australian Research Council

Have we missed anything?

If you have anything else you would like to tell us, please write on the lines below.

You may also like to take a moment to check you have not
missed any questions or pages.

<u>nents</u>
֡֡֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜

Thank you for taking the time to complete this survey.

If you need help to answer any of the questions, you can contact us by telephoning 1800 068 081 (Freecall)

When you have completed the survey, please sign the next page and send the survey back to us as soon as possible. We will detach the consent form and store it in a separate locked room.

How would you rate your health?

Good Health Poor Health

Health – not without physical problems					
Injuries – brought on by their own activities	Longstanding health problems.				
Setbacks- likely to improve.	More pessimistic about getting over events and				
Conditions described as minor (even if not)	illnesses.				
Positive outcomes of health care					
Vitality – Active and fit					
Some slowing down with ageing.	Slowing down				
	"everything is gradually wearing out" (s3)				
Participation _Active	Passive				
Dancing, gardening, volunteer work	reading				
Life satisfaction and Identity					
Generally satisfied with life.	Content				
Belief in themselves and proud of achievements	"Pathetic"				
whether maternal, domestic or professional	Not bored.				

Good Health

Poor Health

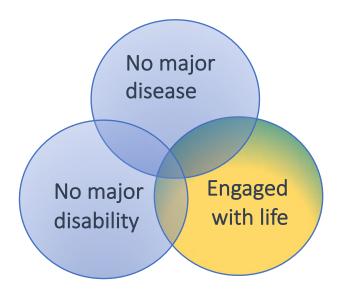
Health Care – Active and involved	Less active
Generally satisfied with health care	Difficulty accessing health care.
Trust doctors, health care systems, and therapies.	Difficulty affording health care.
Some concern with access to health care.	Mistrust.
Some: "seek natural therapies"	
Mobility and physical function – Can do	Can't do
Adapt to increasing difficulties and limitations to	Describe what they can't do (rather than what they
physical function.	can do or hope to do)
Generally still able to drive	Talked about not being able to drive
Social	
Positive relationships, supportive family, good friends	Negative as well as positive relationships
May be caring for husband	Difficulty maintaining relationships
	Carer burden / Loss of spouse.
Optimistic	Less optimistic
Internal locus of control "I keep well"	"I hope I will not be around for the next survey. I
"I don't sit and wait for things to happen"	have no desire to stay alive when I can no longer
"you reap what you sew"	function independently" (s3)
"hope" "grateful" 'Lucky" "Fortunate"	

Engagement with life (surveys)

FEW DISEASES, GOOD HEALTH, GOOD PF

Survey 4 (79-84): I still manage to go on bus tours, ... over the last 14 years I have seen a fair portion of Australia doing bus tours.

(88-93): I have just come home from a 9 day road trip to Alice Springs and surrounds with family a lovely time, I feel a bit tired and have developed a cold - otherwise very grateful that I can still do these things.



FEW DISEASES, POOR HEALTH, POOR PF

(91-96): I am healthy but cannot walk without help. This stops me from doing a lot of activity I have lots of friends & family so get help. A lot to be thankful for

MANY DISEASES, GOOD HEALTH, GOOD PF

Survey 2 (73-78): I feel I am genuinely lucky with my health and my life. I play bridge three or four days a week and love my weekly golf day. I have a wide circle of very good friends and have a very busy life. I feel very blessed!!

(89-94): I have a very supportive family who regularly keep in touch. My daughter-in-law is a wonderful friend. .. I feel very lucky I can still have a busy social life playing bridge.

(91-96): I have not been well this year. I now have carers coming morning & night to help me. So I am in very good hands, as well as wonderful family support.

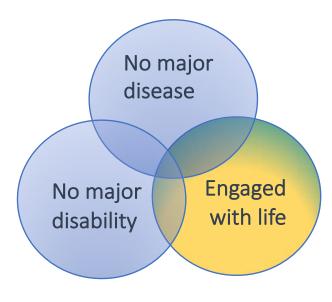
Engagement with life (Surveys)

MANY DISEASES, POOR HEALTH, POOR PF

ANGINA, DIABETES, DIVERTICULITIS, ARTHRITIS, HYPERTENSION, OSTEOPOROSIS, HIP FRACTURE, SCIATICA

(88-93): I'm sure my health is mainly due to old age. My memory is excellent & I'm am able to knit for the local op shop which I enjoy. I'm lonely at times but prefer my own home. I love company but not all day, I find talking all day very tiring. Don't see family as much as I would like But they are all working & busy which I understand. We all get on well together. I am 91 years old and had a good life.

(89-94): I am suffering from a painful condition with my jaw bone, result of taking a tablet once a week which specialists tell me can't be treated. Extremely painful. Tablet apparently inhibits jaw bone healing. Don't know why I had to reach 92 to have this.



MANY DISEASES, POOR HEALTH, POOR PF (86-91):I am just so grateful that I feel as well as I do. Am able to read do puzzles, drive, ask for no help, except mowing and that is how I would like it to be until I die. Living by myself is lonely, but as long as I have book and can read I am content. I take pride in my housework. Furniture always polished, but I do have someone twice a year to do my windows. I don't sew crochet or knit as I did, but I have the evidence of those things and it's good to know that once I did them.

(87-92): I'm still here.

(88-93): A year older - I can feel the downhill pull now - and am content - I have lived a long life and many operations. One thing I have found out, is that it is up to myself how I live. I can be happy, I can be miserable. It's all up to me. I choose happy! I hope I have been helpful.

Interviews to date (age 92-97):

- Most "pretty well" or fantastic
- But .. (cancer, blindness, mobility problems)
- Everything is an effort
- Frustrated cant do things
- "I like being here"
- I've got my marbles
- Lonely
- Will anyone come to our funerals

- Lucky, lucky good genes
- Still driving
- Travel (past)
- Roles
- Housework with help
- Puzzles, social outings, gardening, cooking, quilting, snooker, reading, TV, computer
- Pets
- Family important but often distant

I am still here. I get up, I think, I reason, I move about.
I feel like I am on holiday. I can please myself.

Conclusion

- Successful ageing is a tall order, most will not achieve it
- Longevity is its own success
- Healthy ageing allows for ageassociated changes, for management of conditions, and to support people to do the things that give life meaning

- Help with, not doing for
- Loneliness, social interaction, participation
- Transport
- Hobbies
- Gardening
- Pets
- Family particularly children

The women talk of enjoyment and quality of life, and engagement, in spite of conditions and disabilities:

This should be the goal of healthy ageing.



Thank you

ALSWH is conducted by staff at the University of Newcastle and the University of Queensland. We are grateful to the Australian Government Department of Health for funding and to the women who provided the survey data.

We acknowledge:

- Department of Health and Medicare Australia for providing the PBS and MBS data, and the Aged Care Data.
- Australian Institute of Health and Welfare (AIHW) as the integrating authority for these data.
- assistance of the Data Linkage Unit at the Australian Institute of Health and Welfare (AIHW) for undertaking the data linkage to the National Death Index (NDI).









Social Media



www.facebook.com/alswh



@ALSWH Official

Newsletters

www.alswh.org.au/subscribe