



Living Longer, but not necessarily Living Better: physical activity patterns in older Australians

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CEPAR Conference, Sydney, July 2013





Content of presentation

- Physical activity in Australia
- Production of physical activity recommendations for older people
- National survey data trends
- Dissemination and implementation
 - Preventive Health Strategy
 - Translation of Research into Practice
- Future directions





National Health Survey (2007-2008)

Proportion (%) of persons walking for exercise in last two weeks

	15-24	25-34	35-44	45-54	55-64	65-74	75+
Walked for exercise	41.2	49.2	48.7	51.3	50.6	50.9	35.7
Didn't walk for exercise	58.8	50.8	51.3	48.7	49.4	49.1	64.3





National Health Survey (2007-2008)

BMI, Proportion (%) of Persons

18-24 25-34 35-44 45-54 55-64 65-74 75+

Underweight	5.4	2.7	*1.3	*1.0	*0.6	*0.8	*1.8
Normal weight	57.3	43.7	35.8	31.1	27.9	24.1	33.4
Overweight	24.3	34.8	38.2	39.8	37.4	43.5	41.8
Obese	13.0	18.8	24.6	28.0	34.1	31.6	23.0
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Figures exclude those for whom height and weight not measured

^{*} Standard error of estimate 25-55% so interpret with caution





Context

< 50% older Australians do enough physical activity to produce a health benefit

Department of Health and Ageing:

- Healthy Ageing Strategy
- Be Active Australia: A Health Sector Framework for Action 2005-2010
- National Obesity Taskforce (2005)









- Scoping
- Literature review
- Formulation of recommendations



Five recommendations

- Refinement/consultation with stakeholders
- Finalisation of recommendations
- Launched 2009





Definitions

The US National Institutes of Health Consensus Statement

- Physical activity
 - 'any bodily movement produced by skeletal muscles that requires energy expenditure and produces progressive health benefits' (pg 3).
- Older people
 - 65+ years
 - Aboriginal and Torres Strait Islanders 55+ years





Recommendation 1 (evidence level I)

Older people should do physical activity, no matter what their age, weight, health problems or abilities.

Never too old!







Recommendation 2 (evidence level II)

Older people should be active every day in as many ways as possible, doing a range of physical activities that incorporate

fitness, strength and balance.

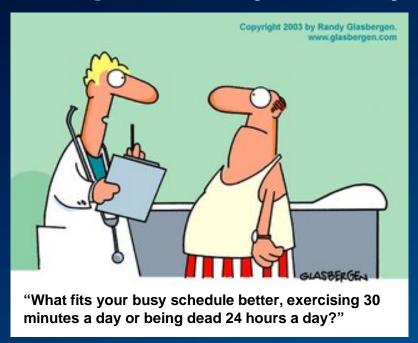
- Endurance/fitness
- Strength training
- Balance, mobility and flexibility





Recommendation 3 (evidence level I)

Older people should accumulate at least 30 minutes of moderate intensity physical activity on most, preferably all, days.

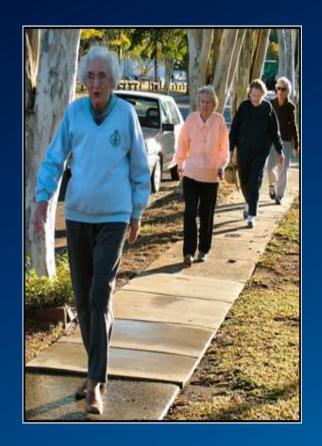






Recommendation 4 (evidence level IV)

Older people who have stopped involvement in physical activity for more than several weeks, or who are starting a new physical activity, should start at a level that is easily manageable and gradually build up the amount, type and frequency of activity.







Recommendation 5 (evidence level IV)



Older people who have enjoyed a lifetime of vigorous physical activity should maintain vigorous physical activity into later life.





US guidelines on physical activity for adults

 A minimum of 30 minutes moderate intensity physical activity five days per week

OR

Vigorous activity for 20 minutes three times per week

AND

Muscle-strengthening activity

AND FOR OLDER PEOPLE

Flexibility, balance, and activity plans

Reference: Nelson M et al 2007 Physical activity and public health in older adults: Recommendation from the American College of Sports Medicine and the American Heart Association. Circulation 116 (9): 1094-1105

http://circ.ahajournals.org/cgi/reprint/116/9/1094





Proportion physically active (AHS 2012)

	55-64	65-74	75 plus
MEN			
Sedentary	37.7	38.9	46.1
Low	29.6	29.8	30.0
Medium	25.1	np	np
High	7.6	np	np
WOMEN			
Sedentary	36.6	41.7	65.6
Low	37.4	32.2	22.5
Medium	20.9	np	np
High	4.9	np	np



Proportion physically active 2008-2012

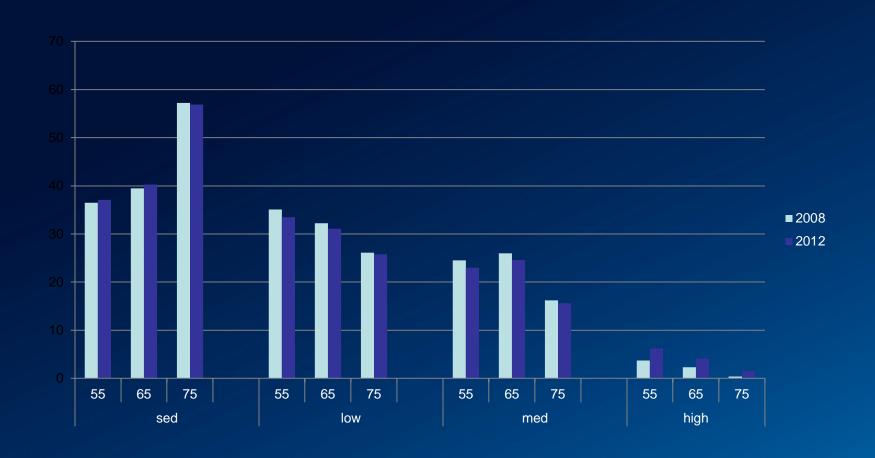
	2008			2012		
	55-64	65-74	75+	55-64	65-74	75+
Sedentary	36.5	39.5	57.2	37.1	40.3	56.9
Low	35.1	32.2	26.1	33.5	31.1	25.8
Moderate	24.5	26.0	16.2	23.0	24.6	15.6
High	3.7	2.3	**0.4	6.2	4.1	*1.5

^{*} estimate has a relative standard error of 25% to 50%; ** >50%





Physical activity patterns 2008-2012







Logic model for physical activity promotion









Dissemination

- Consumers
- Providers

Local, state and national level





Using the Recommendations in Practice

- Local
 - Healthy Ageing Quiz
- State
 - Go For Your Life
 - Active Ageing Network
- National
 - National PartnershipAgreement on PreventiveHealth







AUSTRALIA: THE HEALTHIEST COUNTRY BY 2020



A discussion paper prepared by the National Preventative Health Taskforce

A LIFELONG FRAMEWORK FOR ACTION

Policy reform and strategies for action require a lifelong approach. While emphasis is placed on pregnant women and early childhood, there are other critical times in life that are also important if momentum is to be maintained. (73) For example, there should be a focus on groups such as toddlers, school-aged children, first-time parents and older Australians.





"TAKING PREVENTATIVE ACTION"

- Revision of dietary guidelines for older people
- Funding to sports agencies to encourage greater sport and active participation
- Measure Up campaign





Population health implications

- Focus remains on assessment and management of high risk individuals
- Marmot (2010) has discussed the need for a model which addresses the health of all individuals across the lifespan in order to improve societal health
 - Beyond the closing the gap approach





Translation of research into practice

- 1. Problem analysis
- 2. Implementation mapping
 - Specify objectives
 - Stakeholder consultations to design a suitable implementation intervention
 - Assess implementation strategies for : acceptability, face validity, reliability, generalisability and cost effectiveness
 - 3. Implementation and evaluation





Intervention matrix

	Barrier		
	Lack of awareness	Lack of clarity about referral process	
	Intervention objective		Outcome measure
Performance objective			
HP explains to older person	Provide HP with information		HP interview
HP refers to health coach		HP given modified referral form	Referral audit





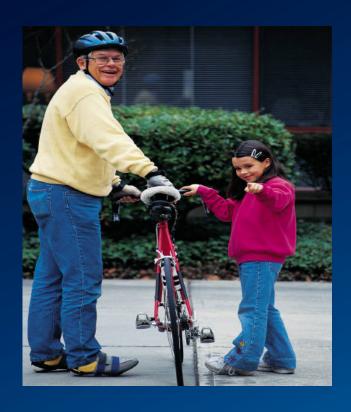
Physical activity and brain health

Cybercycling

Outcomes:

- Executive function
- Clinical status (MCI)
- Exercise effort
- Plasma BDNF

C Anderson-Hanley et al Am J Prev Med 2012 42(2): 109-119







Acknowledgements

- Public Health Division, National Ageing Research Institute: Jane Sims, Keith Hill, Sue Hunt and Betty Haralambous.
- Expert Advisory Group members: Annette Brown, Lisa Engel, Nancy Huang, Ngaire Kerse and Marcia Ory.
- Department of Health & Ageing





Access further details DoHA

http://www.health.gov.au/internet/main/Publish ing.nsf/Content/phd-physical-rec-olderguidelines

NARI

www.nari.unimelb.edu.au

HARU

www.med.monash.edu.au/sphc/haru/