# **Exercise Right:** Tips about Exercise, Aging and Your Health



"What fits your busy schedule better, exercising one hour a day or being dead 24 hours a day?"



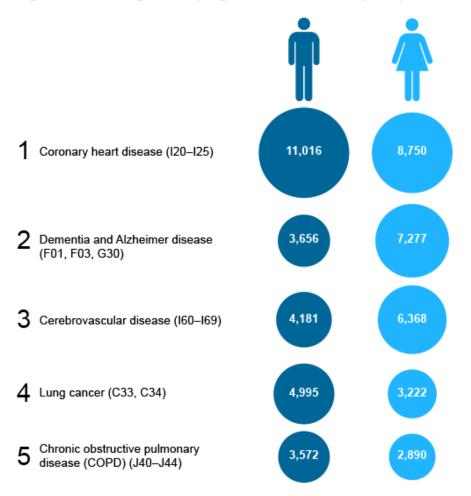
# Robert Robergs, Phd, ESSAM, AEP, EPC, FASEP

Associate Professor: Exercise Science School of Exercise & Nutrition Sciences Faculty of Health QUT



### Current Killers. What do we know?

Figure 1: Leading underlying causes of death by sex, 2013





"Eat less, exercise more and alter your genetic code with the DNA of thin parents."

http://www.aihw.gov.au/deaths/leading-causes-of-death/#leading-age

# **Bigger Picture**

Highly Active

**Poor** 

Inactive

Obese

Good

**Self-Assessed Health Status** 

Figure 2: Leading underlying causes of death in Australia by age group, 2011-2013

		1st	2nd	3rd	4th	5th	
	Age < 1	Other Perinatal & congenital	Other SIDS	Other Ill-defined causes	External Accidental threats to breathing	Other Selected metabolic disorders	
	Age 1-14	External Land transport accidents	Other Perinatal & congenital	Cancer Brain cancer	External Accidental poisoning	Other Cerebral palsy & related	
i	Age 15-24	External <b>Suicide</b>	External Land transport accidents	External Accidental poisoning	External <b>Assault</b>	External Event of undetermined intent	
	Age 25-44	External <b>Suicide</b>	External Accidental poisoning	External Land transport accidents	Circulatory Coronary heart disease	Cancer Breast cancer	
	Age 45-64	Circulatory Coronary heart disease	Cancer <b>Lung cancer</b>	Cancer Breast cancer	Cancer Colorectal cancer	External <b>Suicide</b>	
	Age 65-74	Circulatory Coronary heart disease	Cancer <b>Lung cancer</b>	Respiratory COPD	Circulatory Cerebrovascular disease	Cancer Colorectal cancer	
	Age 75-84	Circulatory Coronary heart disease	Circulatory Cerebrovascular disease	Other Dementia & Alzheimer disease	Cancer <b>Lung cancer</b>	Respiratory COPD	
	Age 85-94	Circulatory Coronary heart disease	Other Dementia & Alzheimer disease	Circulatory Cerebrovascular disease	Respiratory COPD	Circulatory <b>Heart failure</b>	
	Age 95+	Circulatory Coronary heart disease	Other Dementia & Alzheimer disease	Circulatory Cerebrovascular disease	Circulatory <b>Heart failure</b>	Respiratory Influenza & pneumonia	

**80**7

70-

60-

50-

40-

30-

20-

10-

**Excellent** 

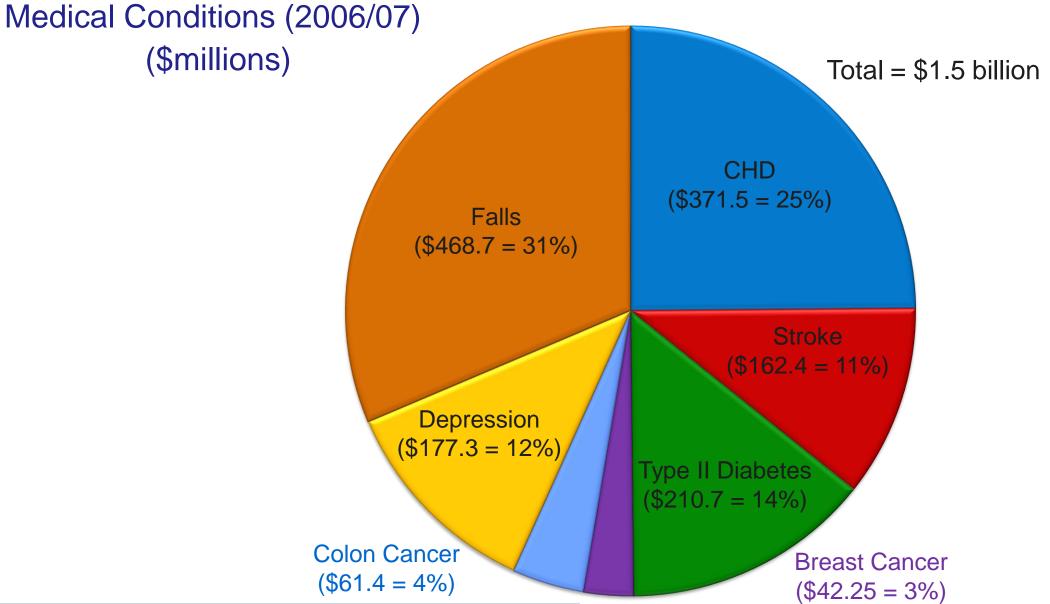
% Response



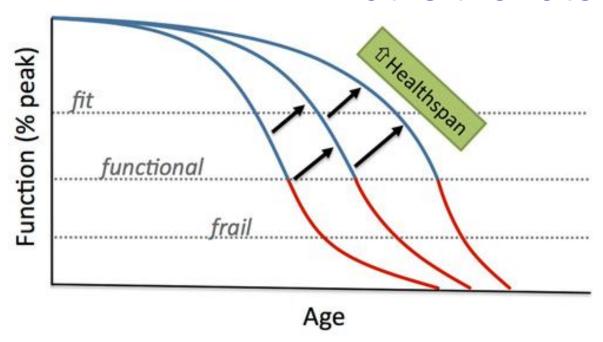
Table 1: Risk factors for developing CVD, type 2 diabetes or CKD

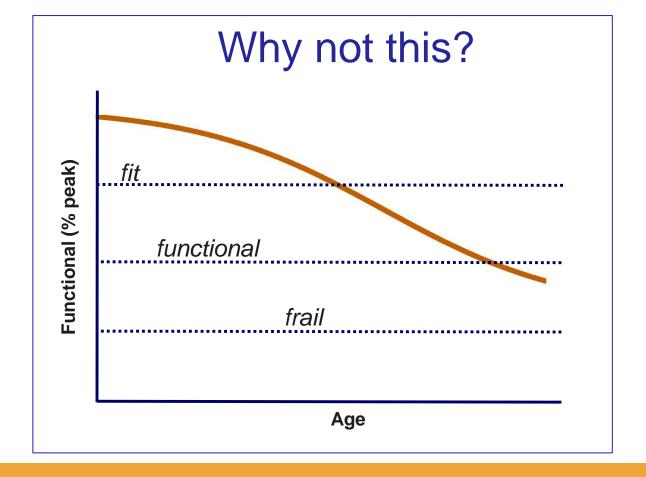
	CVD	Type 2 diabetes	CKD	
Behavioural risk factors				
Tobacco smoking	✓	✓	✓	
Insufficient physical activity	✓	✓	✓	
Excessive alcohol consumption	✓		?	
Inadequate fruit and vegetable consumption	✓	✓	✓	
Biomedical risk factors				
Overweight and obesity	✓	✓	✓	
High blood pressure	✓	✓	✓	
→ Dyslipidaemia	✓	✓		
→ Impaired glucose regulation	✓	✓	✓	

Impact of Physical Inactivity to Gross Costs Across Common

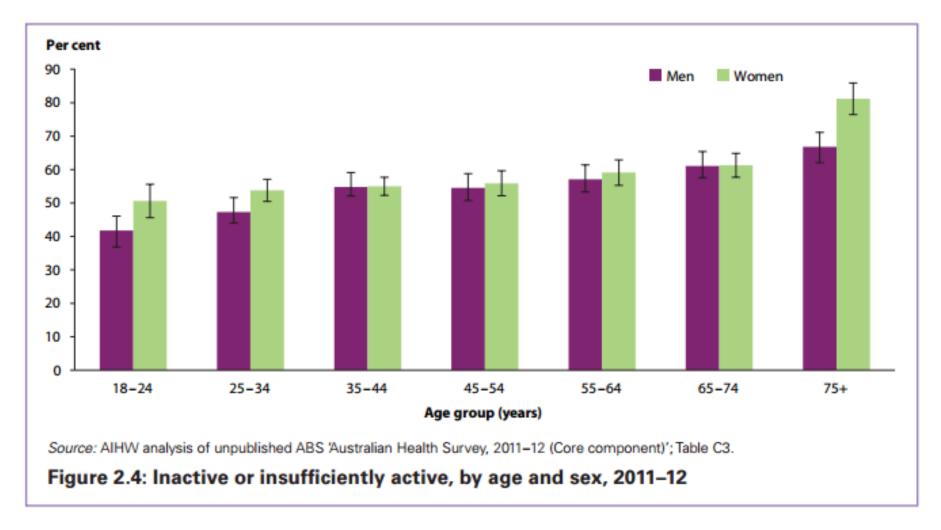


### What is the rate of our demise?





### Why does aging coincide with sedentary living?



## **Exercise Training**

### What do we know?

Australia's Physical Activity and Sedentary Behaviour Guidelines

### 18-64 years

- Doing any physical activity is better than doing none. If you currently do no physical activity, start by doing some, and gradually build up to the recommended amount.
- Be active on most, preferably all, days every week.
- Accumulate 150 to 300 minutes (2 ½ to 5 hours) of moderate intensity physical activity

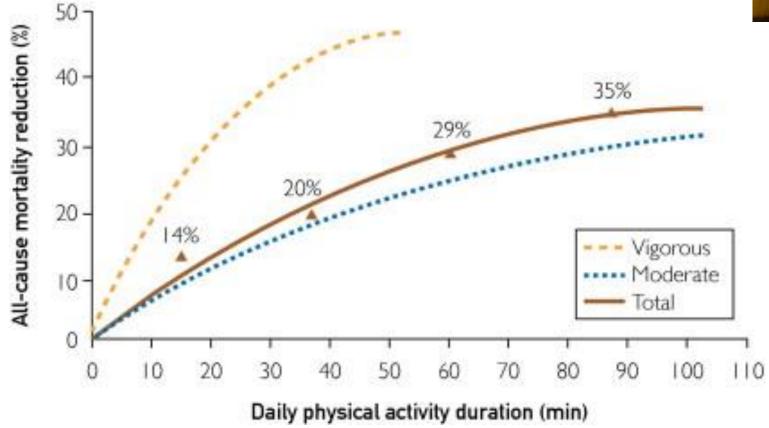


75 to 150 minutes (1 ¼ to 2 ½ hours) of vigorous intensity physical activity, or an equivalent combination of both moderate and vigorous activities, each week.

- Do muscle strengthening activities on at least 2 days each week.
- Minimise the amount of time spent in prolonged sitting.
- Break up long periods of sitting as often as possible.

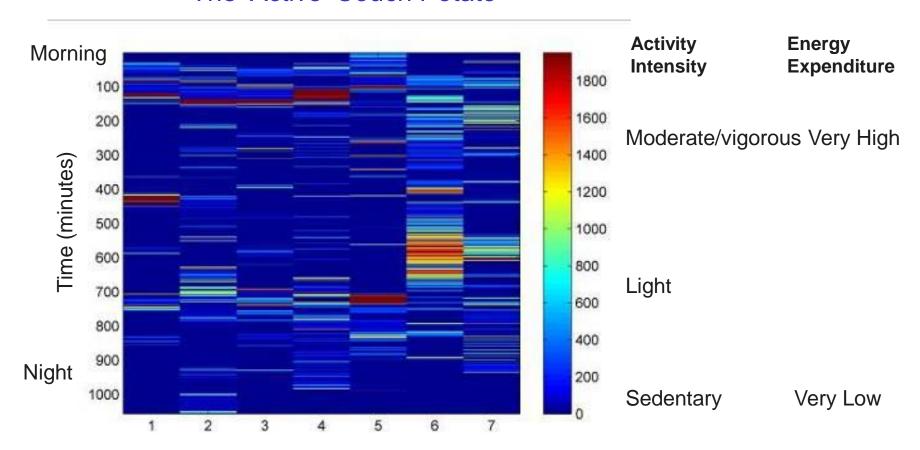






# You can be 'active', but also highly sedentary!

The 'Active' Couch Potato



Mean mod-to-vigorous time = 31 mins/day % Waking hours spent in Sedentary = 71%

## **Exercise Training**

### What do we know?

Australia's Physical Activity and Sedentary Behaviour Guidelines

### >64 years

- Older people should do some form of physical activity, no matter what their age, weight, health problems or abilities.
- Older people should be active every day in as many ways as possible, doing a range of physical activities that incorporate fitness, strength, balance and flexibility.
- Older people should accumulate at least 30 minutes of moderate intensity physical activity on most, preferably all, days.
- Older people who have stopped physical activity, or who are starting a new physical activity, should start at a level that is easily manageable and gradually build up the recommended amount, type and frequency of activity.
- Older people who continue to enjoy a lifetime of vigorous physical activity should carry on doing so in a manner suited to their capability into later life, provided recommended safety procedures and guidelines are adhered to.



## What You Need To Do

### See your doctor





Request medical tests





Set realistic goals



Dietician



Podiatrist ? Physiotherapist ?

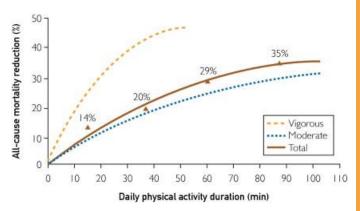


Request allied health referrals

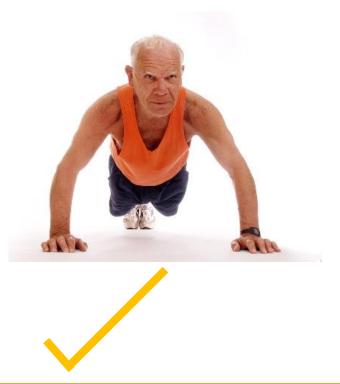
Diabetes Educator

**Accredited Exercise Physiologist (AEP)** 









# Aging Can Be Active & Healthy!



What is your decision?



