





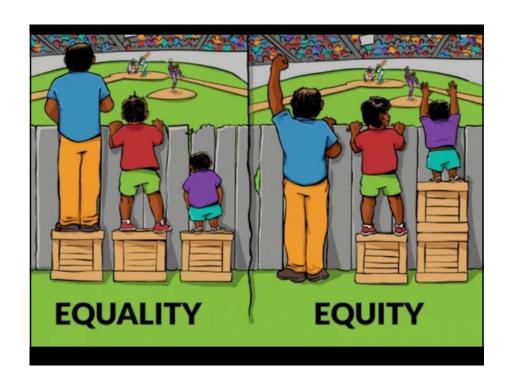
Equally well in mental and physical health: how can we integrate lifestyle interventions as part of routine care?

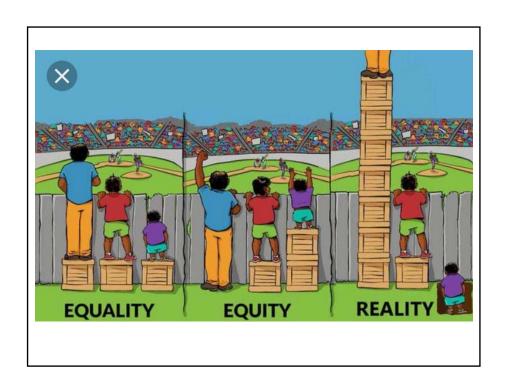
Medicine School of Psychiatry

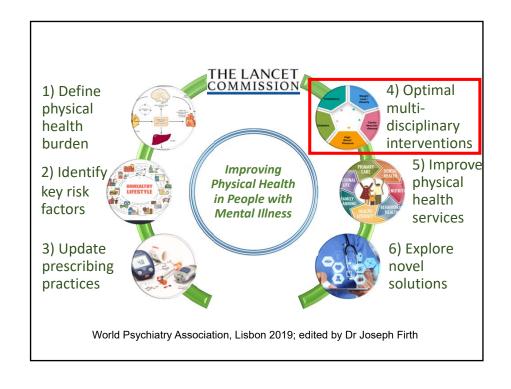
#### Simon Rosenbaum PhD

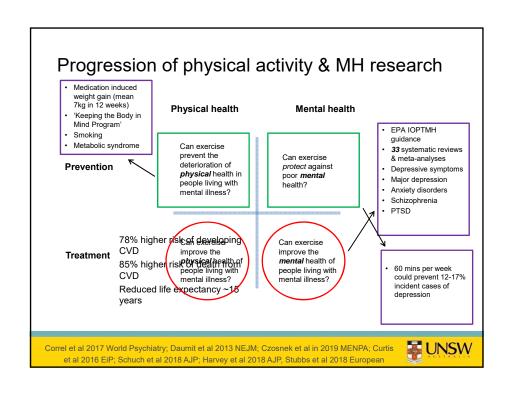
UNSW Scientia Fellow NHMRC Early Career Fellow School of Psychiatry, UNSW Black Dog Institute Director, Exercise Sports Science Australia

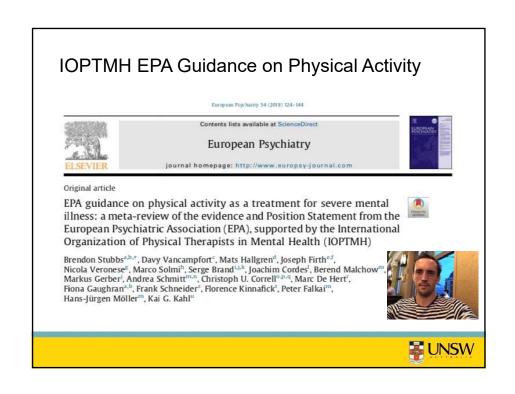


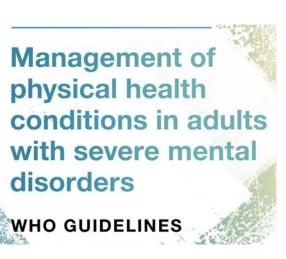








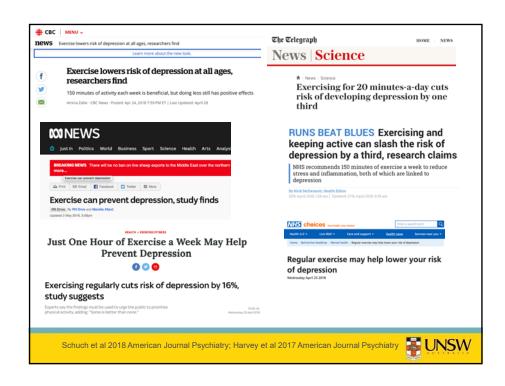




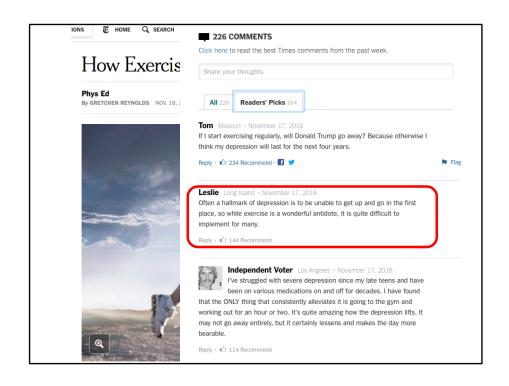
Lifestyle interventions recommended for:

- Weight management
- Cardiovascular disease and risk
- Diabetes

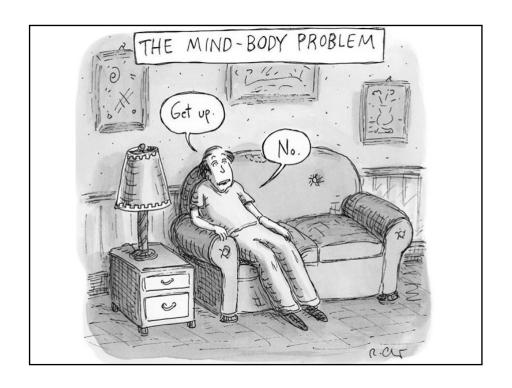


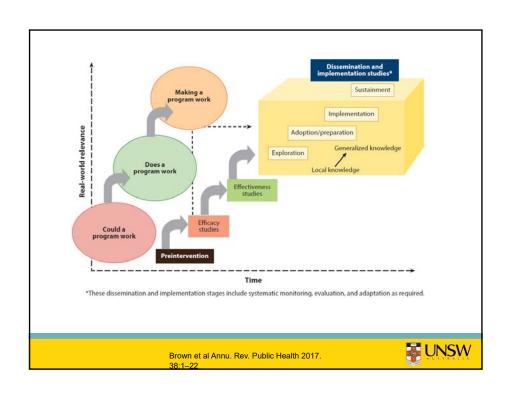


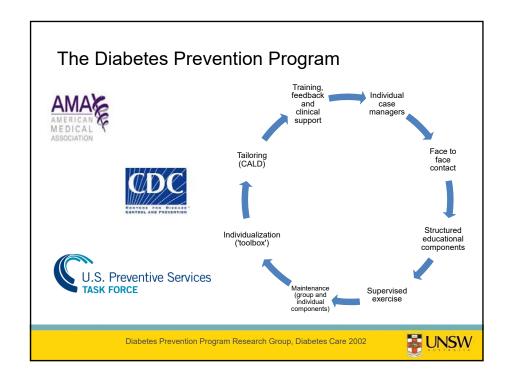


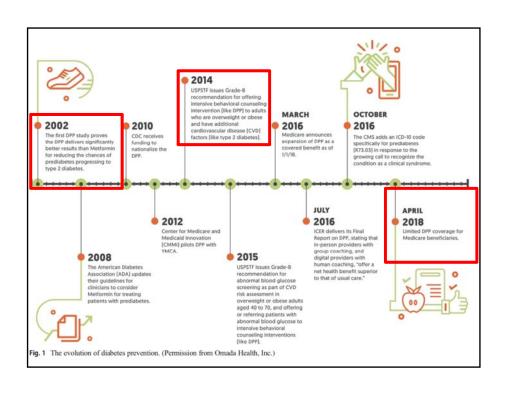




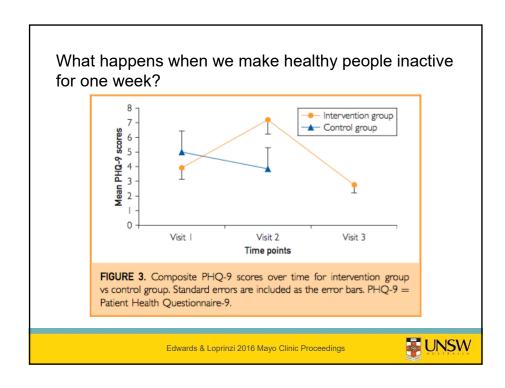


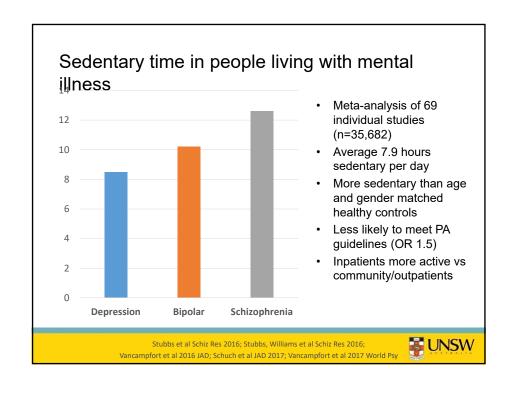


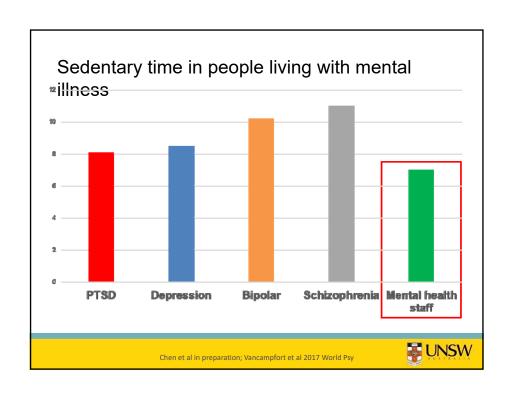




	Included both exercise & diet?	Used specified BCTs	Delivered by staff with professional qualifications in exercise or dietetics	Offered ≥2 supervised exercise sessions per week	Mental health staff trained	Peer- support
MPaCT	Yes	No	No	No	Yes	No
CHANGE	Yes	Yes	Yes	No	No	No
NTERACT	Yes	No	No	No	Yes	No
n SHAPE	Yes	Yes	Yes	Yes	No	No
ACHIEVE	Yes	Yes	No	No	Yes	No
CAPICOR	Yes	Yes	No	Yes	Yes	No
KBIM	Yes	Yes	Yes	Yes	Yes	Yes









## How do our staff measure up?

#### Baseline Body Mass Index



Waist (cm)	Mean	SD
Pre	88.3	13.1
Follow-up	86.2	12.8
Change	-2.2**	2.7

Among participants overweight or obese at baseline, **mean weight loss of 1.2kg** (p<0.05)

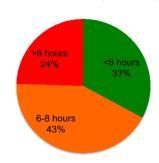
'My motivation to look after my health really increased'

'(Participating in KoSiM) was a very positive experience. It got me setting health goals, being more active and eating better'



### Sedentary behaviour

Baseline sedentary time /day



- Baseline: 8 hours 57mins
- Follow-up: 7 hours 42mins
- Decrease:1 hours 15mins\*\*
- "I realised that it (KoSiM) made me more aware of how sedentary I was, especially during work hours so I started walking home from work"
- 95% of participants said they planned to pay more attention to increasing PA



# Previous exposure to exercise physiologist or dietitian

- 10%: referred to or seen a dietitian
- 7%: referred to or seen an exercise physiologist





#### At follow-up:

 95% and 93% reported a better understanding of the role of dietitians / EPs





## **International Position Statement:**

The Role Of Physical Activity In Closing The Life Expectancy Gap of People With Mental Illness

The below organisations are committed to working towards a global strategy to *achieve a 50% reduction in the life* expectancy gap of people experiencing mental illness by 2032



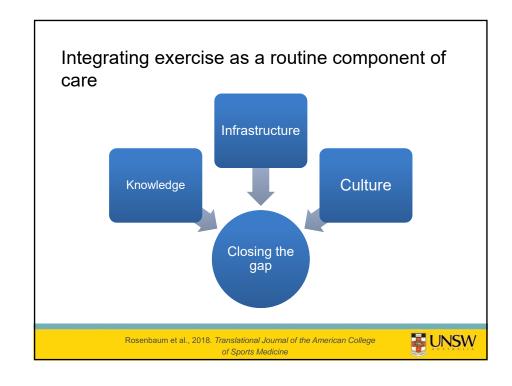






Rosenbaum et al., 2018. Translational Journal of the American College of Sports Medicine





Exercise & mental health: moving beyond weight

weight
Change in symptoms occur independent of changes in body mass = cannot measure success of exercise through weight loss



THE CONVERSATION



#### Fitness vs. Fatness

- 1 in 210 obese men & 1 in 124 obese women will achieve normal weight without surgery
- Among those who manage to lose significant weight (at least 5% of bodyweight), at least half will regain it within two years



 Yet, among people with SMI - weight loss most common motivating factor to start exercise (83%)<sup>2</sup>

**UNSW** 

Fildes et al 2015 Am J Public Health; Firth et al 2016 Psy Med<sup>2</sup>

## Fitness vs. Fatness



Low CRF is a strong and independent predictor of CVD & all-cause mortality<sup>1</sup>



SMI =  $\downarrow$  CRF of -8.96 mL/kg/min vs. controls (g= -1.-01)<sup>2</sup>

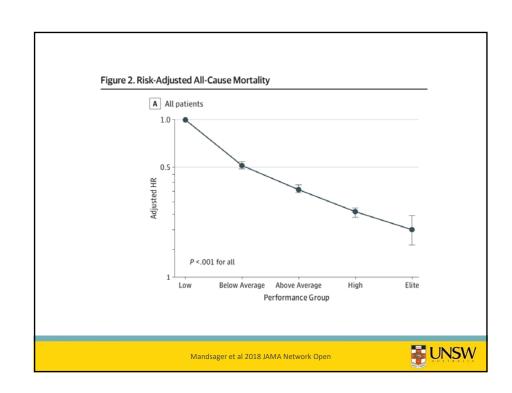
Modest incremental increases in CRF of 3.5 ml/kg/min associated with 13% and 15% decrements in risk of all-cause and CVD mortality respectively<sup>1</sup>

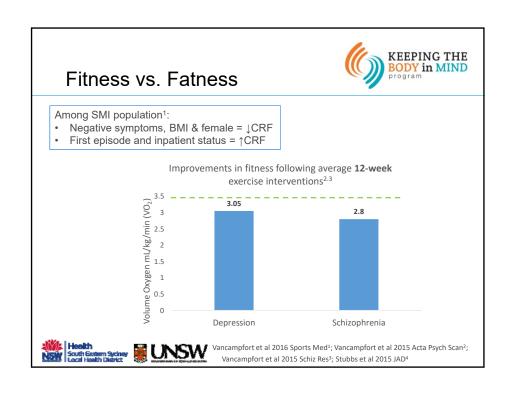






Kodoma et al 2009 $^{1}$ ; Vancampfort et al 2016 Sports Med $^{2}$ 





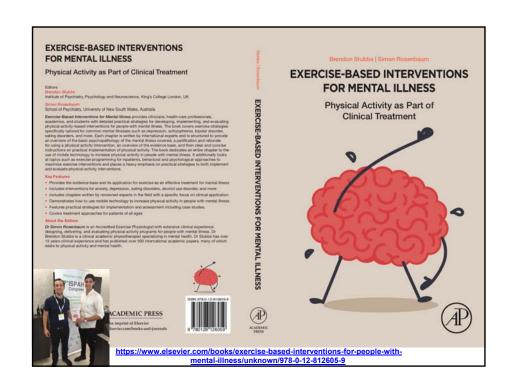


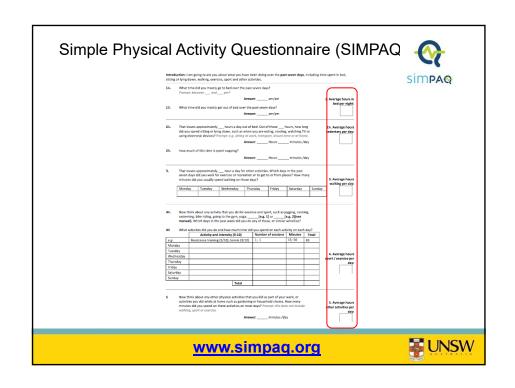












## SIMPAQ Languages







- · French: Questionnaire sur l'activité physique
- Czech: Jednoduchý dotazník fyzické aktivity
- · Finnish: Kysely fyysisesta aktiivisuudesta
- پرسشنامه فعالیتهای ساده ی جسمی (سیمپک) Farsi:
- Japanese: 身体活動簡易質問票
- · Portugese:
- Spanish: Cuestionario sencillo de actividad física
- Swedish: Enkelt frågeformulär om fysisk aktivitet ('SIMPAQ')
- Mandarin:簡易體能活動問卷調查
- Luganda: Engeli Enyangu Mukukozesa Omubiri era N'ebibuzo













## Questions I can ask today?

#### Clinicians and practitioners

- Can I ask people I care for about exercise, diet, smoking and lifestyle?
  - 'Make Every Contact Count'
- Can I refer to local health professionals e.g. dietitians and exercise physiologists?

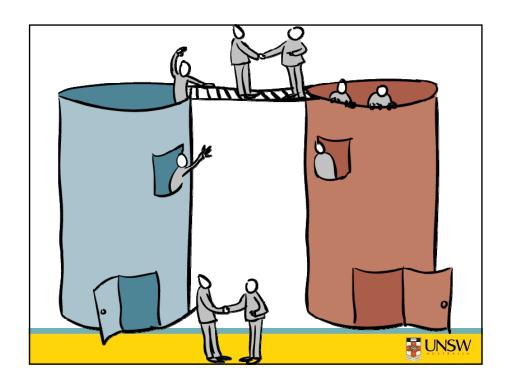
#### Researchers

- How can we adapt and scale established, evidenced-based programs to local
- Can we collaborate with implementation scientists and health economists to think beyond RCTs?

#### Policy and decision makers

- Is the culture right for change? Are staff on board or 'old-school'?
- What resources are available to adequately support implementation?





## Acknowledgements





- Philip Ward & Zachary Steel, Jackie Curtis, Ruth Wells, Shaun Nemorin, UNSW
- Andrew Watkins, Scott Teasdale, Oscar Lederman, Rachel Morell
- Keeping the Body in Mind Team
- Anita Hobson-Powell, Kade Davison, Robert Stanton – ESSA & CQU
- Joseph Firth, Western Sydney
- Brendon Stubbs, Kings College London
- Davy Vancampfort, KU Leuven
- Felipe Schuch, Universidade Uni La Salle, Brazil





