**9** @ProfCCollins

# **Nutrition** and **Mental Health**

# Is there a relationship?

#### Clare Collins

Laureate Professor in Nutrition & Dietetics | FAHMS, FNS, FDA College of Health, Medicine & Wellbeing, The University of Newcastle Director - Food and Nutrition Research Program, Hunter Medical Research Institute







What is known about nutrition and mental health

Recognise the importance of diet and dietary behaviours in mental health

Understand the importance of good nutrition, improved mood and wellbeing

Increase awareness on addictive eating behaviours and recent developments in new interventions being trialled

Increase familiarity with the Medicare Eating disorder health plan

# Learning goals







Poor diet impacts Australia's burden of disease

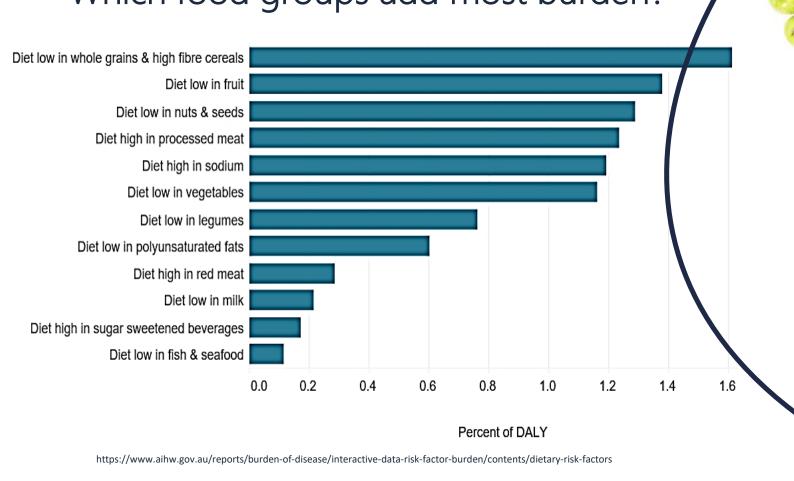
### PERCENTAGE TOTAL BURDEN OF DISEASE (DALYS) ATTRIBUTED TO RISK FACTORS 2018



https://www.aihw.gov.au/reports/burden-of-disease/burden-of-disease-study-2018-key-findings/contents/about



Which food groups add most burden?



Laureate Prof. Clare Collins | Twitter: @ProfCCollins | The University of Newcastle



Australian Dietary Guidelines and

Australian Guide to Healthy Eating

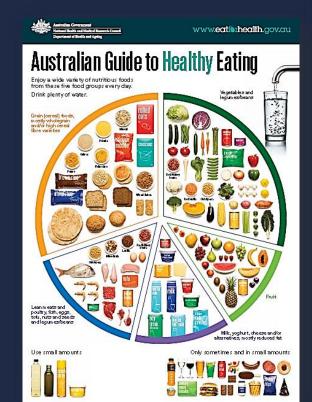
eatforhealth.gov.au

WELCOME TO EATFORHEALTH.GOV.AU

# AUSTRALIAN DIETARY

Advice about the amount and kinds of foods that we need to eat for health and wellbeing





- every day and their growth should be checked regularly.
- Older people should eat nutritious foods and keep physically active to help maintain muscle strength and a healthy weight

#### ENJOY A WIDE VARIETY OF NUTRITIOUS FOODS FROM THESE FIVE GROUPS EVERY DAY:

- Crain (coreal) foods, mostly wholegrain and/or high coreal fibre varieties, such as breads, coreals, rice, pasts, needles, potents
- . Milk, veolvert, choose and/or their alternatives, mostly reduced fat included fat milks are not suitable for children under the age of

And drink plenty of water

#### **GUIDELINE 3**

- Replace high fat foods which contain prodominantly saturated late such as butter, cream, cooking margarine, occorut and pain
- Low fat diets are not suitable for children under the age of 2 years.
- b. Limit intake of foods and drinks containing added salt

**ENCOURAGE, SUPPORT AND PROMOTE BREASTFEEDING** 

#### **GUIDELINE 5**

CARE FOR YOUR FOOD; PREPARE AND STORE IT SAFELY

# Disease burden would drop by...

- 51% for Heart disease
- 26.3% for Bowel Cancer
- 26.0% for Type 2 diabetes
- 25.8% for Stroke
- 22.8% for Oesophageal cancer
- 7.4% for Hypertensive heart disease

https://www.aihw.gov.au/reports/burden-of-disease/abds-2018-interactive-data-risk-factors/contents/dietary-risk-factors#change





From shutterstock.com

Australian Institute of Health and Welfare. Australian Burden of Disease Study: impact and causes of illness and death in Australia 2015 report. Canberra: AIHW; 2019.



# Disease burden would drop by...

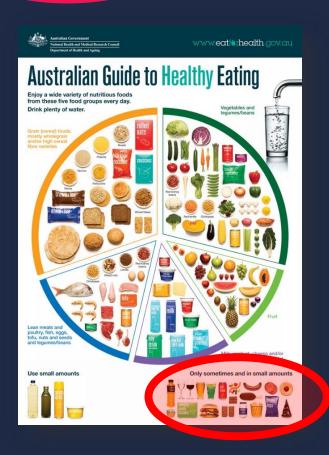
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From shutterstock.com

Australian Institute of Health and Welfare. Australian Burden of Disease Study: impact and causes of illness and death in Australia 2015 report. Canberra: AIHW; 2019.

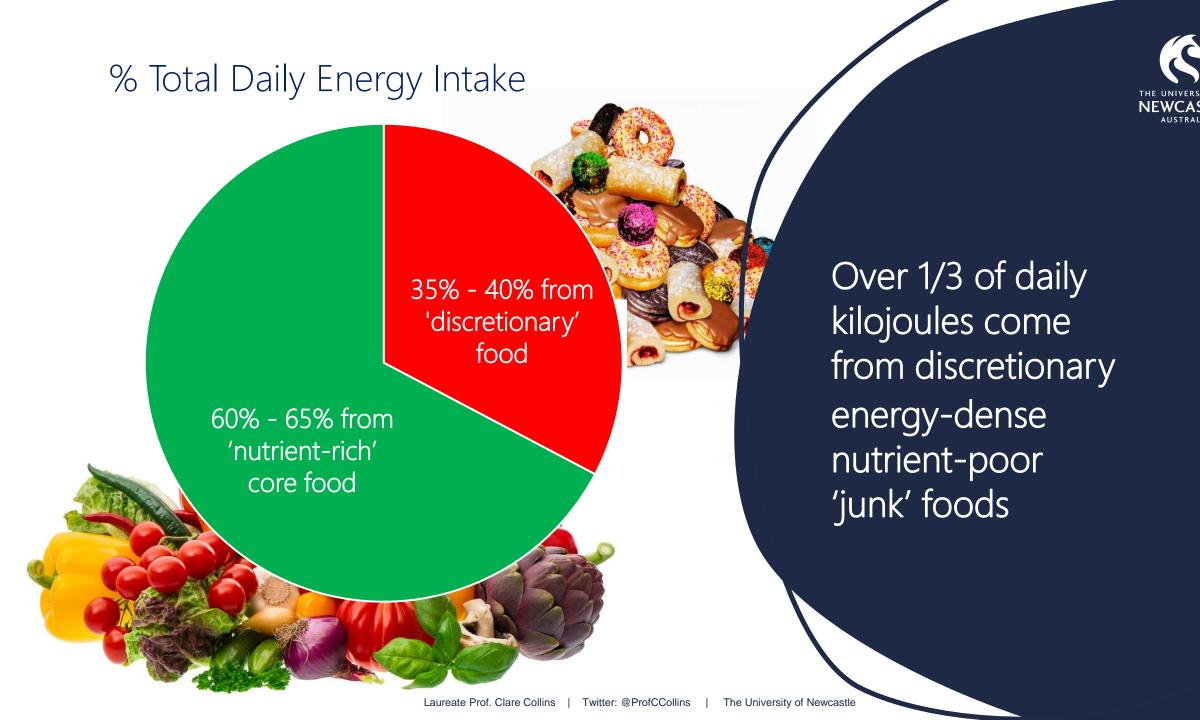
## 'No we don't!'



# Australian Guide to Healthy Eating says:

- Limit 'discretionary' foods to 10-15% total daily kilojoules'
- '... only sometimes and in small amounts'

Eat for Health





# The main culprits contributing to high discretionary intakes

1.	Alcohol	4.8%	5.	Sweet/savoury biscuits	2.5%
2.	Cakes, muffins, scones, desserts	3.4%	6.	Sugar sweetened drinks	1.9%
3.	Lollies, muesli/nut/fruit bars	2.8%	7.	Potato fries	1.7%
4.	Pastries	2.6%	8.	Snack foods	1.5%

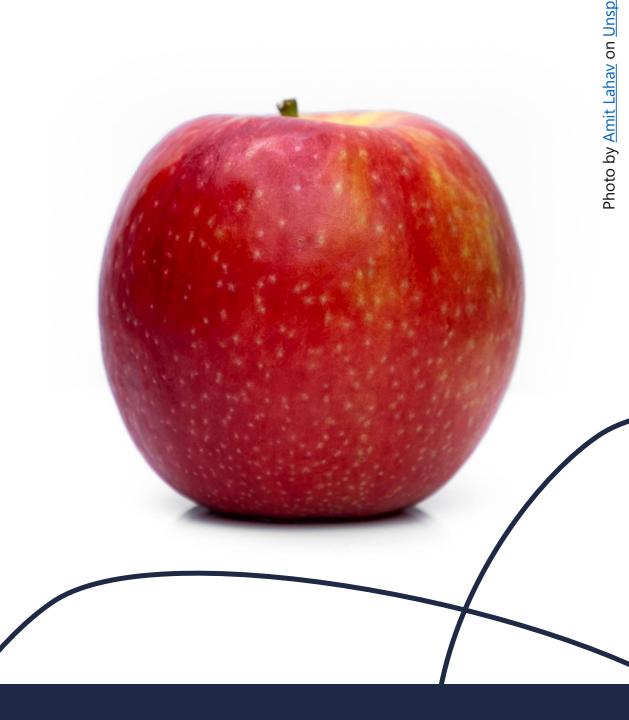
#### Only sometimes and in small amounts





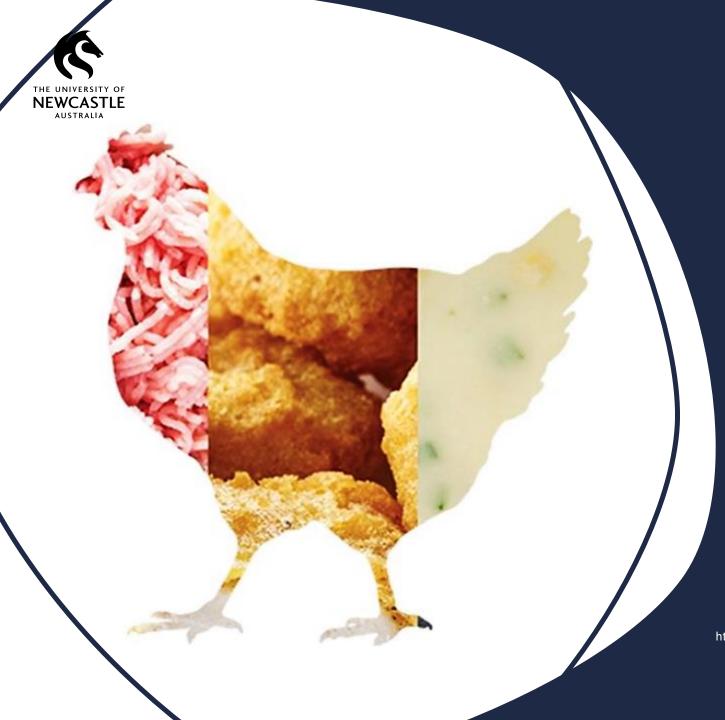
# Apples

aren't on that list!









# Who you calling chicken?

#### 1. Fresh chicken meat

Water used in washing/chilling. Water absorbed by carcass; < 5% or must be declared

#### 2. Chicken mince

Minced muscle-meat trimmings. 100% meat, no other ingredients. Illegal to add preservatives

#### 3. Chicken nuggets

Frozen nuggets from machine-formed chicken [breast/white meat ± skin ± marinade for flavour + dusted with flour + battered/ crumbed + oil + salt ± other ingredients (maize starch, colours, soya protein isolate, thickener, hydrolysed vegetable protein, vegetable gums, acidity regulators, flavours, mineral salts, sugar)]

https://www.choice.com.au/food-and-drink/nutrition/nutrition-advice/articles/ultra-processed-food



# Addictive Foods

#### Adults

- Foods high in fat /sugar. Higher % energy from energy-dense, nutrient-poor foods
- Confectionery (candy/sweets/lollies/chocolate)
- Baked sweet foods (cookies, biscuits, cake, muffins, donuts)
- Savoury snacks (potato chips/crisps, crackers, popcorn, pretzels
- Take away/out, Fast food (burgers, chips/fries, pizza)

#### Children

 Chocolate (70%), soft (fizzy) drinks, ice cream, Fries, white bread, rice, candy, chips, pasta (43%).

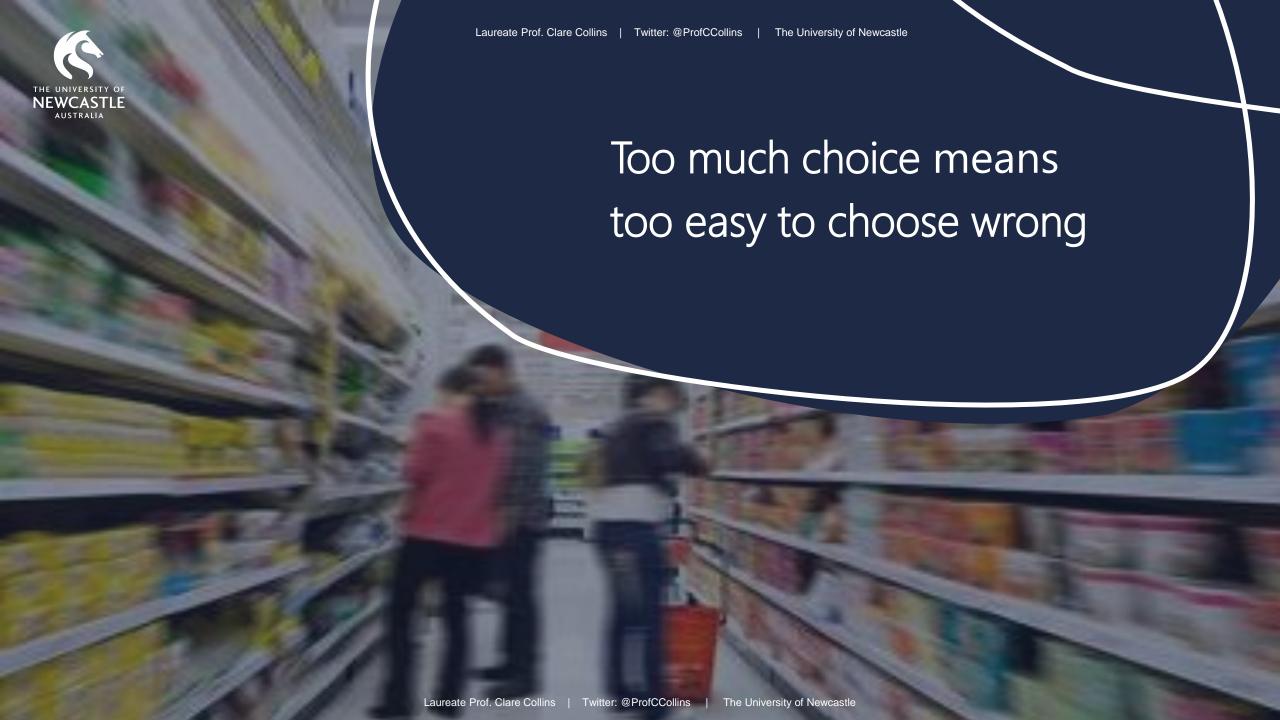
(Pursey et al Nutrients 2022, 14(1), 164)



# What's gone wrong?











Arts + Culture Business + Economy Education Environment + Energy Health + Medicine Politics + Society Science + Technology



Don't limit yourself to grapefruit - increasing the amount and variety of fruit and vegetables can help you lose weight. Dan Zen/Flickr, CC BY



Monday - start diet. Tuesday - break diet! Wednesday - plan to start again next Monday.

If this is you, it's probably time to get off the diet roller coaster and make some bigger changes to the way you eat, drink and think about food.

Here are six tips to help you get started.

#### 1. Improve your diet quality score

When trying to lose weight, it might be tempting to quit carbs, dairy or another food group altogether.



Clare Collins Professor in Nutrition and Dietetics, University of

#### Disclosure statement

Clare Collins is affiliated with the Priority Research Centre in Physical Activity and Nutrition, the University of Newcastle, NSW. She created the online Healthy Eating Quiz and Australian Eating Survey. She has received funding from a range of research grants including NHMRC, ARC, Hunter Medical Research Institute, Meat and Livestock Australia. She has consulted to SHINE Australia and Novo Nordisk. Clare Collins is a spokesperson for the Dietitians Association of Australia on specific nutrition issues,





# Food cue temptation!

## Exposure therapy

- Use psychologist help to expose yourself to sight/smell of favourite foods in locations that trigger overeating, but only taste without eating
- With persistence & time, cravings reduce, even when cued by ads or others eating
- Draw on brain's own self-management areas
- Takes conscious practice to train your brain to resist temptation on autopilot

https://theconversation.com/health-check-six-tips-for-losing-weight-without-fad-diets-52496

# Feel pulled by food cues? RROARR back!



Remind yourself that YOU are boss of you, not a food cue.

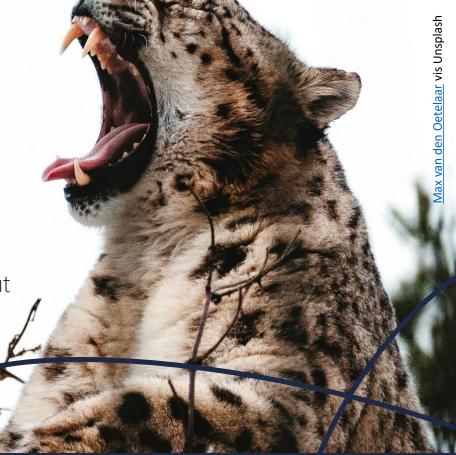
Resist tempting food or drink initially by turning your back on the cue.
 (Gives you time to think about next steps.)

Use a pre- Organised Alternative behaviour against the food cues.
 Grab a drink of water, walk around the block, check your phone messages, read, take a walk in the opposite direction. <u>Diversion works</u>.

■ Recall your big-picture goal. Feel better? Reduce medications? Lower blood pressure? Improve diabetes control? Manage weight?

Reward. Each time you complete an *organised alternative* behaviour put
 \$1 in a jar. When it builds up, spend it on something you really want.
 <u>Financial incentives can help</u>

https://theconversation.com/health-check-six-tips-for-losing-weight-without-fad-diets-52496











or





## Nutrition and mental health observational studies

Important associations between healthy eating and better mood and mental well-being

Higher fresh fruit & veg intakes strongly correlated with greater happiness, better mental health and higher well-being

#### Meta-analysis

- 8 cohorts: lower depression risk with Mediterranean diet
- 9 cross-sectional: lower depression risk for 'healthy diet'
- 4 cohorts: no relationship between depression risk and Mediterranean diet

#### Systematic review

- 20 cohorts + 21 cross-sectional: lower depression risk for Mediterranean diet
- 8 cohorts: lower depression risk for a Mediterranean diet





# Nutrition and mental health intervention studies

- 16 trials (15 non-clinical depression)
- Diet interventions significantly reduced depressive symptoms
- No effect for anxiety
- Greater benefits for symptoms of depression and anxiety in females<sup>1</sup>
- 46 reviews (67% severe mental illness, 20% depression/anxiety, 7% eating disorders, 7% substance use disorders)
- Most found positive effects of dietary intervention on weight-related and/or mental health outcomes<sup>2</sup>
- Accredited Practising Dietitian counselling (7x1hr face-to-face) in adults with major depression vs. social support control found total health sector costs were \$856 lower and societal costs \$2590 lower, even when cost of food included, plus improved QALYs<sup>3</sup>

#### **Conclusion**

Dietary interventions are low cost, safe and effective interventions for improving nutrition-related health and wellbeing and some aspects of mental health



- 1. Firth, et al. The Effects of Dietary Improvement on Symptoms of Depression and Anxiety: A Meta-Analysis of RCTs. J. Psychosom Med. 2019,81(2):265-80.
- 2. Burrows, et al. Effectiveness of dietary interventions in mental health treatment: A rapid review of reviews. Nutr Diet. 2022 14:79(3):279-290
- 3. Chatterton, et al. Economic evaluation of a dietary intervention for adults with major depression (the "SMILES" trial). BMC Public Health. 2018; 18: 599.

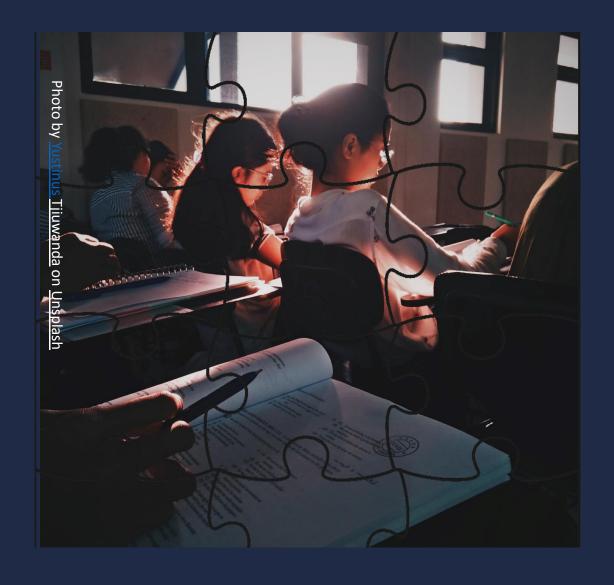


# Many substances cross the blood-brain barrier

- Water
- Caffeine
- Gut Microbiome metabolites
- Ketones bodies from fat metabolism
- Other nutrients with +/- results
- Lead, mercury
- Alcohol







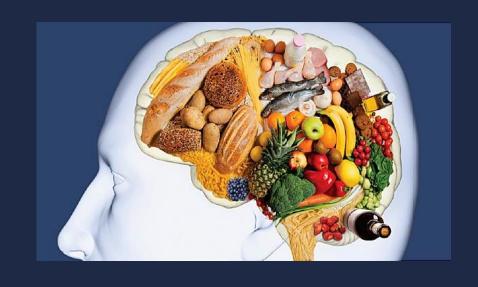
What you eat affects exam and physical performance

... nutrition is a missing piece in wellbeing





- ✓ Fat: omega-3 fatty acids, to make neurotransmitters (endocannabinoids) (Fatty fish)
- ✓ Carbohydrate: glucose is brain's main energy source (bread, cereals, fruit, starch vegetables, milk/yoghurt)
- ✓ Protein: Total protein & specific amino acids (taurine, tryptophan, L-theanine,) to make neurotransmitters (meat, chicken, fish, legumes, dairy, eggs, nuts)
- ✓ Vitamins: B-group; thiamine (B1), pyridoxine (B6), folate (B9), cobalamin (B12) needed to myelinate nerves and make neurotransmitters (grains, leafy green vegetables, wholegrains, yeast spreads, seeds, eggs)
- ✓ Minerals: Iron, zinc, iodine need to make enzymes and neurotransmitters (meat, chicken, seafood, legumes, nuts)





# **Optimising Brain Function with Water**

Dehydration to 2.7% body weight (1.6kg for a 60kg adult) significantly decreases alertness, concentration, short-term memory, tracking performance and increases tiredness and headaches in healthy young people



Photo by Sebastian Pena Lambarri on Unsplash



THE UNIVERSITY OF NEWCASTLE AUSTRALIA

- sandwiches
- omega-3 egg & toast
- can of salmon
- baked beans on toast
- can of spaghetti with cheese
- jaffles
- milo milk
- bowl of cereal

- rolled oats
- cheese on toast
- dried fruit
- Petite miams
- yoghurts
- custard
- ice cream & fruit
- tubs of fruit

- fresh fruit
- stewed fruit
- fruit smoothie
- milkshake
- milk coffee
- cuppa soup
- cuppa tea
- vegetable soup & toast















## **Australian Household Expenditure Survey**

In the 12 months to June 2016 households spent:

#### \$269 (237 + 32) per week on all food and alcohol

√ \$26.70 per week on all fruit & vegetables	9.5%
\$15.30 per week on fresh vegetables	4.6%
(\$1.15) per week on frozen vegetables	0.6%
\$11.40 per week on fresh fruit	4.1%
( \$0.75) per week on canned, frozen fruit	0.3%
X \$121 per week on discretionary foods	47.8%
x <b>\$121</b> per week on discretionary foods \$80.40 per week on meals out and fast foods	<b>47.8%</b> 26.7%
\$80.40 per week on meals out and fast foods	26.7%
\$80.40 per week on meals out and fast foods \$32 per week on alcohol	26.7%

Australian Household Expenditure Survey



# Apples are cheap!

What Australians spend on food

- \$285 on food per week
- \$135 groceries
- \$31 alcohol
- \$52 eating out
- \$22 takeaways
- \$12 UberEats / Deliveroo / Menulog
- Coffee and tea
- supplements
- health foods

Data from :Suncorp Cost of Food report 2019 survey n=1500





Home delivered – 1 week Medium fruit n veg box \$53



Home delivered – 1 meal 3 pizzas for \$30





# Are unhealthy items REALLY worth it?

# CALOR ES TO BURN

1 x Iced sprinkle doughnut = 316 Calories (1321 kJ)

= 88 minutes walking

= 48 minutes cycling

1 x Glazed doughnut

= 195 Calories (815 kJ)

= 54 minutes walking

= 22 minutes jogging





## Cooking Habits

- People who cook more have healthier eating patterns and spend less on 'junk' foods (Wolfson et al, 2014 PHN)
- Survey (437 adults) Those who cooked at home more spent less per month on take aways (\$65/person) and less on food overall (\$273/person)
- Both frequent and infrequent home cookers spent same on food prepared at-home (\$193 vs \$196) (Tiwari et al, 2017, AJPM)
  - 1. Wolfson & Bleich. Is cooking at home associated with better diet quality or weight-loss intention? 2014 PHN: 18(8), 1397–1406.
  - 2. Tiwari, et al. Cooking at Home: A Strategy to Comply With US Dietary Guidelines at no extra cost. Am J Prev Med. 2017 May;52(5):616-624.
  - 3. Lam & Adams. Association between home food preparation skills and behaviour, and consumption of ultra-processed foods: Cross-sectional analysis of the UK National Diet and nutrition survey (2008-2009). IJBNPA 2017 May 23;14(1):68.







## Where can you get decent reliable information about nutrition?







https://nomoneynotime.com.au/















#### How to eat for \$60\* a week!

HACK

Eating healthy doesn't have to be expensive! We've created 7 breakfasts, lunches and dinners averaging \$60\* for your weekly shop using ingredients that are affordable, shelf stable and nutritious!

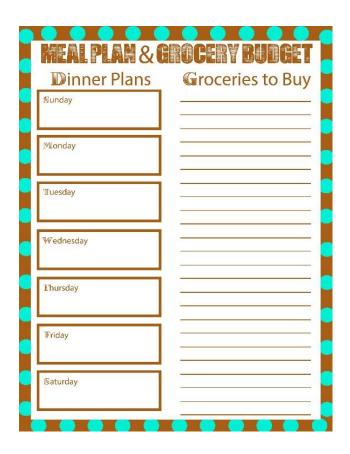
FAVOURITE 🔲

SHARE f 🕡 🖂 💆 🔰 in



https://nomoneynotime.com.au/hacks-myths-faqs/take-our-nmnt-2-week-food-budget-challenge-and-eat-for-55-a-week

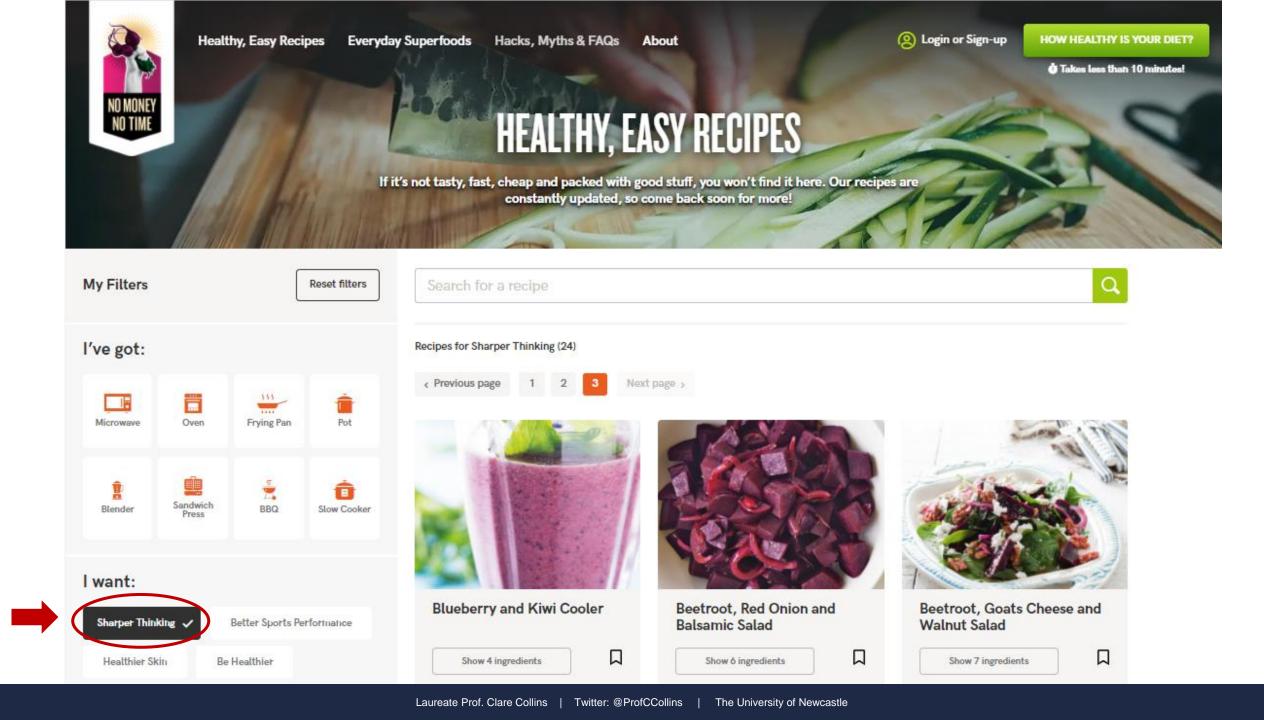
# How much do you spend each week on food and drinks?





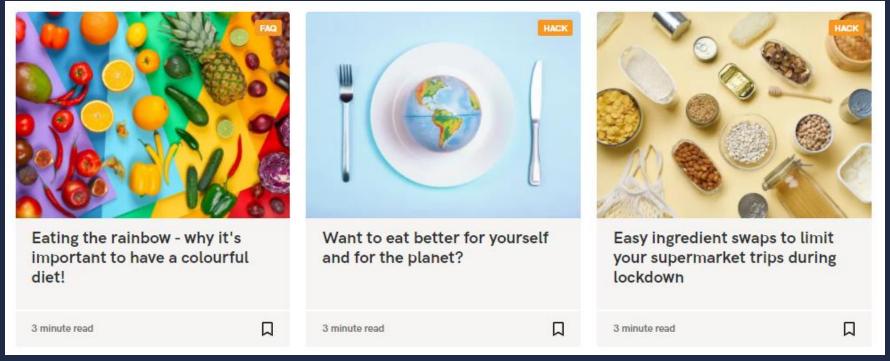
- 65% households say they have a food budget
- 25% say they fail to adhere to it
- 33% don't have a food budget
- Plan to save \$
- Plan to improve nutrition

Data from :Suncorp Cost of Food report 2019 survey n=1500









https://nomoneynotime.com.au/hacks-myths-faqs/5-important-nutrients-for-feeling-fab



### Healthy Eating Quiz™ Measuring how diet quality aligns with Australian Dietary Guidelines and giving personalized feedback www.healthyeatingquiz.com.au



#### Overall score

Your total Australian Recommended Food Score shows you are eating a good variety of foods. Good work!

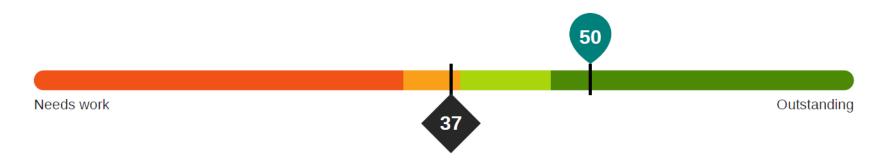
50 / 73 Outstanding

<33 Needs work

33-38 Getting there

39-46 Excellent

47+ Outstanding





You

Your friend Invite

Other 55-64 year old females



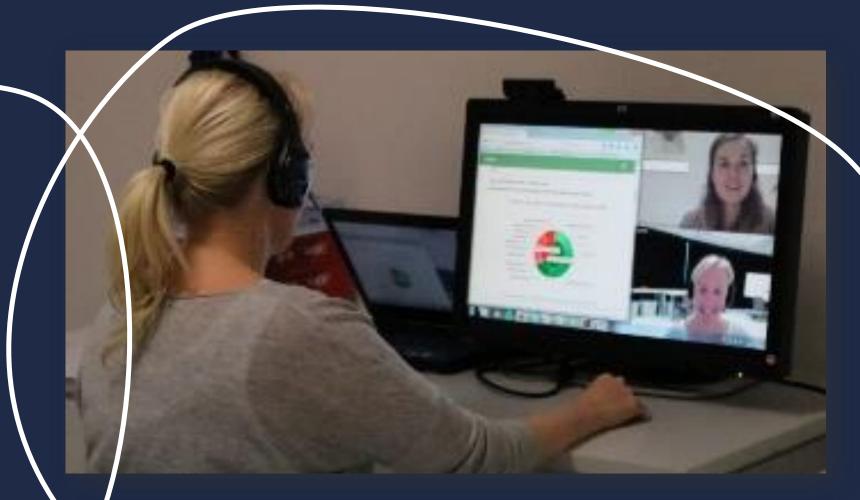






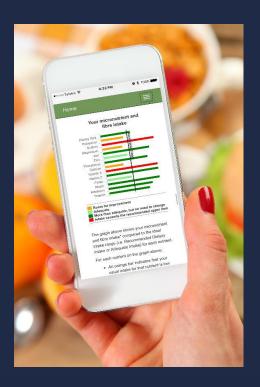
# Telehealth consult with an Accredited Practising Dietitian to personalise individual dietary intervention

Australian
Eating Survey





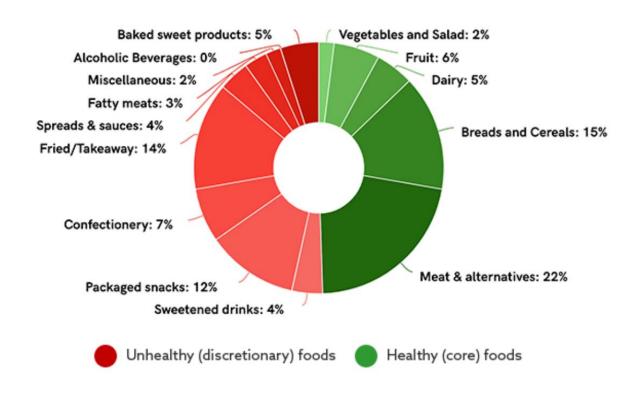
# Australian Eating Survey



## Online Australian Eating Survey

http://australianeatingsurvey.com.au/

Foods in your diet contributing to your energy intake



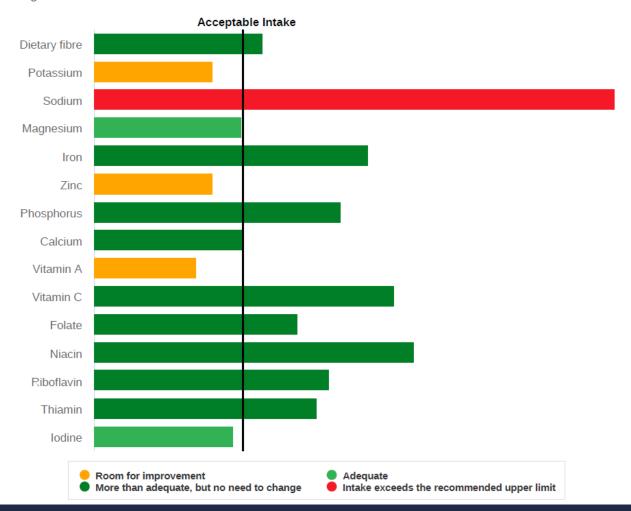
Note: The Australian Eating Survey is not a free tool





## Australian Eating Survey® nutrient intake results

Fig.4 Micronutrient and fibre intake



Light green = EAR (50%) Dark green = RDI/AI (98%)

 $Yellow = \langle EAR$ 

= UL Red



#### Impact on Dietary Intake of Two Levels of Technology-Assisted Personalized Nutrition: A Randomized Trial



Megan E. Rollo 1,2,\*, Rebecca L. Haslam 1,2 and Clare E. Collins 1,2,\*

- Priority Research Centre for Physical Activity and Nutrition, The University of Newcastle, Callaghan, NSW 2308, Australia; rebecca.williams@newcastle.edu.au
- School of Health Sciences, Faculty of Health and Medicine, The University of Newcastle, Callaghan, NSW 2308, Australia
- Correspondence: megan.rollo@newcastle.edu.au (M.E.R.); clare.collins@newcastle.edu.au (C.E.C.); Tel.: +6124-9215-649 (M.E.R.); +6124-9214-656 (C.E.C.)

Received: 2 September 2020; Accepted: 22 October 2020; Published: 29 October 2020

Abstract: Advances in web and mobile technologies have created efficiencies relating to collection, analysis and interpretation of dietary intake data. This study compared the impact of two levels of nutrition support: (1) low personalization, comprising a web-based personalized nutrition feedback report generated using the Australian Eating Survey® (AES) food frequency questionnaire data; and (2) high personalization, involving structured video calls with a dietitian using the AES report plus dietary self-monitoring with text message feedback. Intake was measured at baseline and 12 weeks using the AES and diet quality using the Australian Recommended Food Score (ARFS). Fifty participants (aged 39.2 ± 12.5 years; Body Mass Index 26.4 ± 6.0 kg/m<sup>2</sup>; 86.0% female) completed baseline measures. Significant (p < 0.05) between-group differences in dietary changes favored the high personalization group for total ARFS (5.6 points (95% CI 1.3 to 10.0)) and ARFS sub-scales of meat (0.9 points (0.4 to 1.6)), vegetarian alternatives (0.8 points (0.1 to 1.4)), and dairy (1.3 points (0.3 to 2.3)). Additional significant changes in favor of the high personalization group occurred for proportion of energy intake derived from energy-dense, nutrient-poor foods (-7.2% (-13.8% to -0.5%)) and takeaway foods sub-group (-3.4% (-6.5% to 0.3%). Significant within-group changes were observed for 12 dietary variables in the high personalization group vs one variable for low personalization. A higher level of personalized support combining the AES report with one-on-one dietitian video calls and dietary self-monitoring resulted in greater dietary change compared to the AES report alone. These findings suggest nutrition-related web and mobile technologies in combination with personalized dietitian delivered advice have a greater impact compared to when used alone.

Nutrients 2021, 12, 3334; doi:10.3390/nu12113334



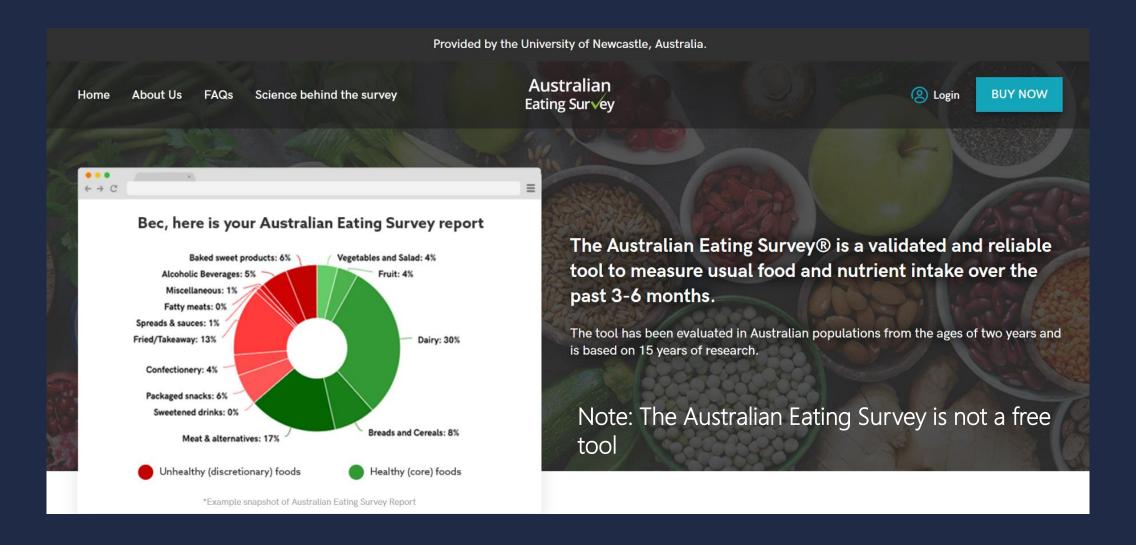
Dietitian counselling + personalised nutrition report achieved a 7% greater reduction in %energy from energydense, nutrient-poor (red) foods vs. personalised report alone (11% vs 4.5%)





## Australian Eating Survey

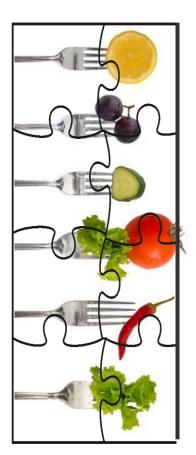
## http://australianeatingsurvey.com.au/







# Take Home Messages



- 1. Current eating habits in Australia are not optimal
- 2. Eating better helps improve brain function, physical performance, mental health and wellbeing
- 3. Use our trustworthy nutrition resources
- 4. Prioritise strategies to help people (& you) improve nutrition

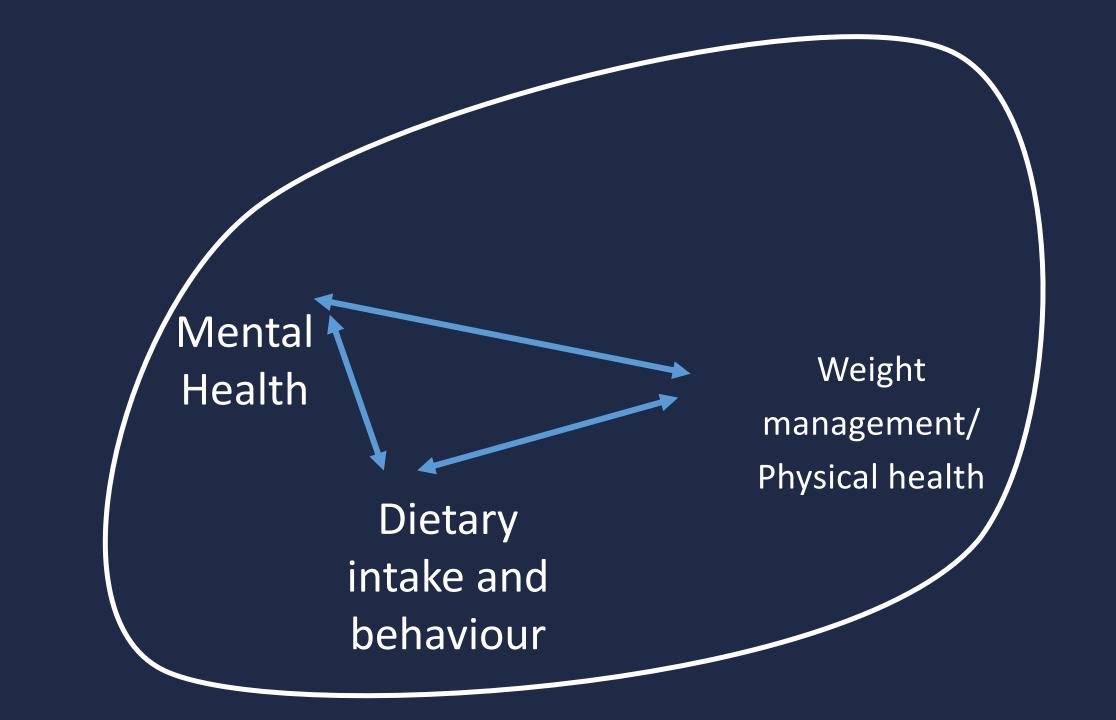


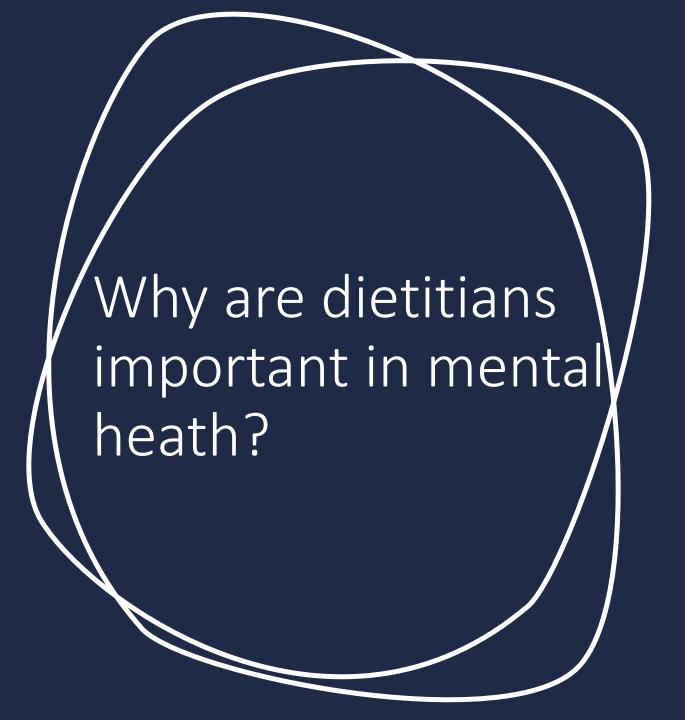
# Eating behaviours and Mental Health

# Professor Tracy Burrows @ProfTBurrows Tracy.burrows@newcastle.edu.au









- The Lancet Psychiatry Commission regarding physical health in individuals with mental illness identified an urgent need for optimised lifestyle interventions and associated implementation strategies. 10
- The 2018 World Health Organisation guidelines on the management of physical health in severe mental disorders recommends lifestyle intervention as a firstline treatment.<sup>11</sup>
- The Royal Australian and New Zealand College of Psychiatrists (RANZCP) now mandate lifestyle interventions (targeting exercise, sleep, diet and alcohol intake) as the foundation of first-line treatments in their 2020 clinical practice guidelines for mood disorders.<sup>12</sup>

## Considerations in mental health

Food insecurity

Budget

Cooking skills/ facilities

Low motivation

caffeine

Confidence

Relationships

Employment

Housing and facilities

Life skills



Nutrition Cognitive

Social other

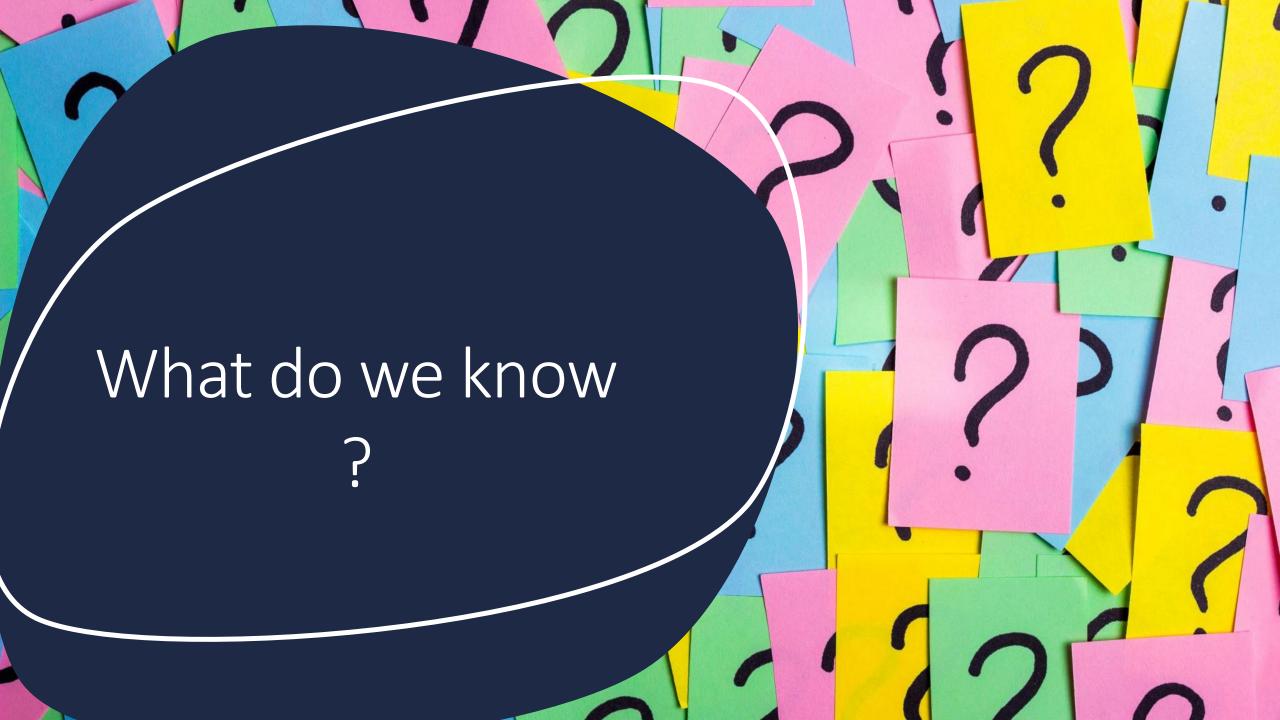
Smoking / alcohol

Substance use

Temperature regulation

Sleep

# Diet is important but what about behaviours?

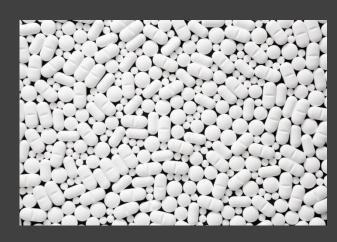












# Who?

- 47% of people self perceive themselves to have food addiction
- 86% of people believe that certain foods are addictive

- Not medically recognised in DSM-5 often assessed through self report tools such as the Yale Food Addiction Scale (YFAS)
- Systematic reviews report 15-20% of people have addictive eating behaviours that impact on their daily functioning <sup>1</sup>

Ruddock et al Current Addiction reports, 2017 4(2): 110

De Pierre et al Journal of substance use, 2014 19 (1-2)

Pursey et al Nutrients, 2014 6: 4552-4590

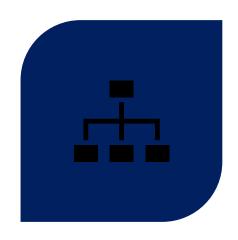
#### Yale Food Addiction Scale







**SEVERITY** 



**CLASSIFICATION** 

https://sites.lsa.umich.edu/fastlab/yale-food-addiction-scale/

- 1. Substance (certain foods) taken in larger amount and for longer period than intended
- 2. Persistent desire yet repeated unsuccessful attempts to quit
- 3. Great deal of time spent to obtain, use, and/or recover certain foods
- 4. Important social, occupational, or recreational activities given up or reduced due to addictivelike eating behavior
- 5. Consumption of certain foods despite knowledge of adverse physical/emotional consequences
- 6. Tolerance (marked increase in amount of certain foods consumed; marked decrease in desired affective experience)
- 7. Withdrawal symptoms when cutting down or abstaining from certain foods and consumption of certain foods to relieve withdrawal
- 8. Craving for certain foods
- 9. Failure to fulfill role obligations due to addictive-like eating behavior
- 10. Consumption of certain foods despite interpersonal/social consequences
- 11. Consumption of certain foods in physically hazardous situations

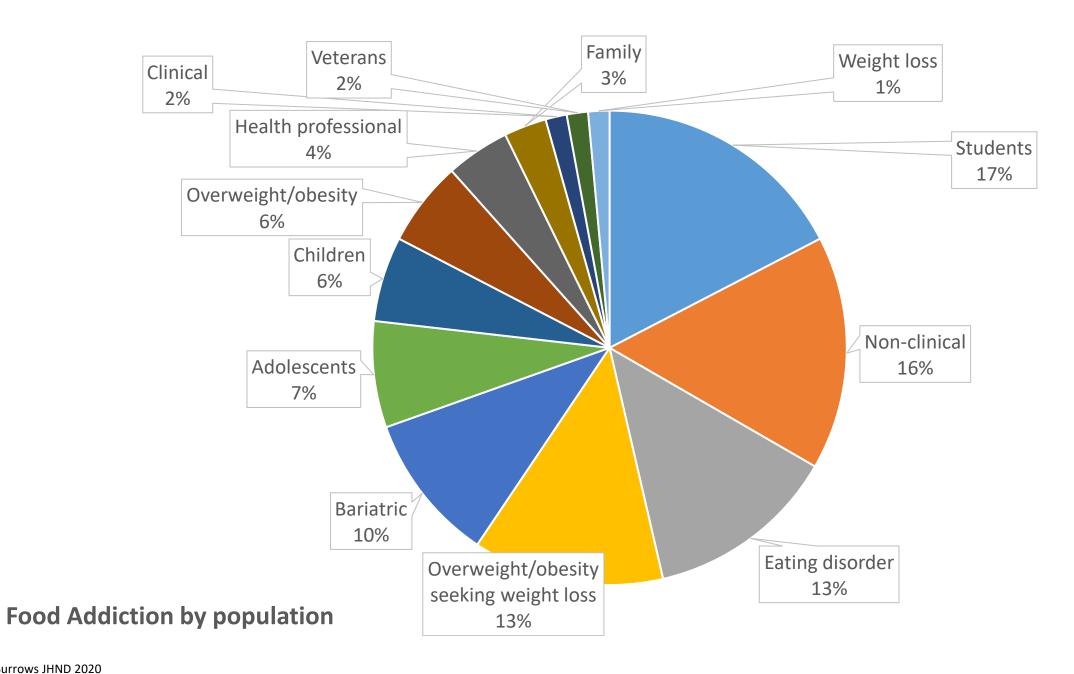
## Symptoms

#### Addictive Eating:

Defined as a compulsive over eating that impacts on an individuals day to day functioning

#### Associated with:

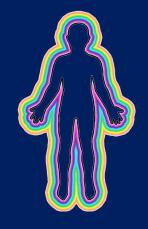
- Females
- Higher weight status
- Mental Health conditions



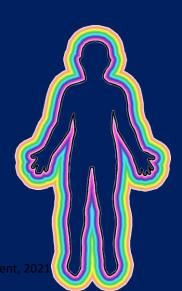


Mild

Moderate



Severe



# Food Addiction... Not just over eating

- Many reported it started in childhood
- 'I still remember the first time... as a teenager... it was lamingtons'
- 'I started doing it in secret'

## Consumers

Mood Foods

High perceptions of **CONTROL** around food, weight

**COMPULSION** including cravings, urges, can't stop, impulse, need, drive, obsession, and temptation

Eating for psychological reasons rather than physiological

Addictive Foods vs Addictive Eating behaviour

Social factors influencing maintenance e.g. triggers

# What do Health Professionals think?

72% have been asked about addictive eating

48% interested in addictive eating being a diagnostic term

50% believe 'food addiction' is a stigmatising term

60% support that addictive eating exists

65% interested in a referral pathway for treating addictive eating

58% report individuals with addictive eating have little to no control over eating habits

#### Preferred terminology:

- Compulsive overeating (23%)
- Addictive eating (19%)
- Compulsive overeating disorder (15%)
- Food addiction (13%)

# Treatment

Existing reviews show a range of methods are being trialed



Self help groups

**Psychosocial** 

Lifestyle

Pharmacotherapy

Surgery



#### **Program**

A Personality based eating awareness program

Feasibility study n= 52 adults

**Process Evaluation** 

Co design and refinement with consumers and health professionals

Randomised Controlled trial

5 x telehealth sessions with dietitians Self guided workbook Website + facebook group N =50

Self guided workbook Website + facebook group N= 50 Waitlist Control
N= 50

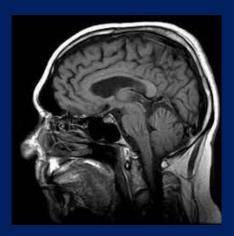
## Do you have patients who might benefit from TRACE?

TRACE program + Biomarkers

- recruiting now <a href="https://redcap.link/TRACE\_biomarkers">https://redcap.link/TRACE\_biomarkers</a>







To determine are there differences in the brain and hormones and can these be changed through a behavioural intervention

## Summary

- Addictive eating is an evolving area of consumer interest, scientific research
- Have an awareness of the connection between mental health and addictive eating behaviours as well as food and diet
- Open and responsive to questions arising
- One size fits all approach unlikely

Janine is a 58 year old female, 2 teenage daughters. She gets quite anxious, and often gets 'cravings' when anxious, often 'eats more than planned'

- BMI 30 kg/m2
- Medical records show family history of heart disease.
- Has trouble sleeping at night
- Often eats snacks in her room

- 1. What might be some practical suggestions?
- 2. What other steps would you take in the management of Janine's mental health?

### 1. What might be some practical suggestions?

Start eating at the table and avoid eating in the bedroom, as location may be a trigger for overeating

Increase awareness of what anxiety and emotional regulation in general, "Surf the urge " ride with it rather than fight it, distract like walking around the block

# 2. What other steps would you take in the management of Janines mental health?

Mindfulness exercises, mind chill, counting backwards from 10 slowly, breathing deeply

#### Triggers for Eating Checklist

Triggers for eating	Yes	No	Maybe	Comments
Emotional				
Angry				
Нарру				
Sad				
Lonely				
Relaxed				
Tired				
Stressed				
Boredom				
Other				
Psychological state Anxious				
	-		_	
Depressed/feeling down Social isolation	-		_	
Trauma				
Places				
Home				
Car				
Supermarket				
Food outlets				
Work				
Social gatherings				
Too hungry				
Alone				
Cues				
Visual				
• TV				
<ul> <li>Advertising</li> </ul>				
Driving				
Smell				
Taste				
People				
Family				
Friends/co-workers				
Times of day			<del>                                     </del>	
Morning				
Lunch				
Dinner				
Afternoon				
After work				
Later at night				
After dinner				
Physical hunger	_			
Hungry	-			
Skipping meals				
Habit/routine				
After exercise				
Other triggers				

Gary is 43 years old and has a BMI of 36kg/m2. At a recent GP visit, he asked for help with his eating calling it "addiction like: behaviours", not satisfied with his current weight. Previous medical history

- High number of depression like symptoms
- Works in a stressful job.



- 1. What might be some simple suggestions or questions that might be useful to improve his relationship with food?
- 2. What other steps would you take in the management of Gary's mental health?



# Case Study 2.

- Consider asking, Why he eats? May be a link between food intake and low mood? Mood monitor checklist?
- 2. Consider if he is eligible for Medicare Eating disorder plan?
- 3. Refer him to an Accredited Practising Dietitian to do a thorough dietary assessment.
- 4. Consider checklists ....

## Who is eligible

To be eligible, your patient must be enrolled in Medicare and be diagnosed with anorexia nervosa.

Your patient may also be eligible if they meet the following criteria:

- be diagnosed with bulimia nervosa, binge-eating disorder or other feeding or eating disorder
- · a score of 3 or more on the Eating Disorder Examination Questionnaire
- rapid weight loss or binge eating or inappropriate compensatory behaviour
   3 or more times a week.

If your patient has not been diagnosed with anorexia nervosa they must also have at least 2 of the following indicators:

- body weight less than 85% of expected weight as a result of an eating disorder
- high risk of, or current medical complications due to eating disorder behaviours and symptoms
- serious comorbid medical or psychological conditions that significantly impact their medical or psychological health
- hospital admittance for an eating disorder in the last 12 months
- inadequate treatment response to evidence-based eating disorder treatments over the last 6 months.

You can check if your patient is eligible for Medicare through the Health Professionals Online Services (HPOS) item checker. You can also call Medicare.

You need your patient's consent to check their eligibility for Medicare services. https://www.servicesaustralia.gov.au/education-guide-eating-disorder-treatment-and-management-plans

#### EATING DISORDER EXAMINATION QUESTIONNAIRE SHORT (EDE-QS)

Name: Date:			Weight:	Height:	
ON HOW MAN THE PAST 7 D		0 days	1-2 days	3-5 days	6-7 days
<ol> <li>Have you been deliberately trying to limit the amount of food you eat to influence your weight or shape (whether or not you have succeeded)?</li> </ol>		0	1	2	3
2. Have you gone for long periods of time (e.g., 8 or more waking hours) without eating anything at all in order to influence your weight or shape?		g 0	1	2	3
made it very diffi	about <u>food</u> <u>eating or calories</u> cult to concentrate on things you such as working, following	0	1	2	3
- Cartini (ii					
it very difficult to	about your <u>weight or shape</u> made concentrate on things you are h as working, following a eading)?	0	1	2	3
5. Have you have gain weight?	Morning real car, you may		,	2	3
6. Have you ha	d a strong desire to lose weight?	0	1	2	3
by making yourse	elf sick (vomit) or taking laxatives?	0	1	2	3
	ercised in a driven or compulsive f controlling your weight, shape	0	1	2	3
	d a sense of having lost control (at the time that you were eating)?	0	1	2	3
you had a sense of eating) did you ea	y of these days ( 1. aug) on make of having lost control over your at what other people would ually large amount of food in one go	0	1	2	3
OVER THE PA	ST 7 DAYS	Not at all	Slightly	Moderately	Markedly
Has your weight or shape influenced how you think about (judge) yourself as a person?		0	1	2	3
12. How dissatisfied have you been with your weight or shape?		0	1	2	3

# Eating disorder examination Questionnaire

#### **Distraction List**

	Anxiety proneness/	Sensation proneness/		
	Depression Proneness	Impulsivity proneness		
	Drink a glass of water	Exercise		
	Slow breathing	Walk		
	Count to 10	Jog		
	Smile	Gym		
	Laugh out loud	Weights		
	Take a break lie on the bed for 20mins	Exercise class		
	Pat dog or cat	Boxing		
	Light a candle	Dance		
	Read a book	Cleaning		
	Write in a journal	Washing		
	Colouring in	Dishes	-	
	Have a picnic	Vacuuming	Е	
	Imagine a relaxing scene/safe place	Dusting	N	
С	Look at beautiful art or scenery	Gardening	Е	
Α	Go to a beautiful place	Water your plants	R	
Ĺ	Be aware and let sounds come and go	Wash the car		
L	Enjoy sounds of nature	Walk the dog	G	
M	Enjoy smells of nature or flowers	Mow the lawn		
1	Watch the stars	Call a friend	S	
N	Exercise	Shopping	1	
	Walk	Favourite movie		
G	Yoga	Favourite book	N	
	Dance	Favourite music	G	
	Sing	Favourite TV show		
	Listen to soothing music	Play a challenging video game		
	Listen to a relaxation app.	Listen to invigorating music		
	Apply your favourite perfume	Read a magazine		
	Apply your favourite lotion	Read a newspaper		
	Bubble bath	Puzzles (e.g. crossword or sudoku)		
	Shower	Volunteer somewhere		
	Massage	Give someone a present		
	Soak feet	Do something thoughtful		
	Brush hair	Make something for someone		
	Do nails			

## The Food Line

This is an awareness raising tool to be used in conjunction with other strategies



#### Well Below your Food Line

#### ... Crazy with hunger

It's been way too long since you last ate. As a result, you might feel dizzy, nauseous or even weak. You may also feel irritable or 'hangry' and all you can think about is food.



#### **Below your Food Line**

#### ... Hungry

You can still function pretty well, but you may have low energy.

Your stomach feels almost empty and is probably starting to growl. It's time to eat.





#### **Approaching your Food Line**

#### ... Neither hungry nor full

Your stomach feels neither empty nor full.

You may be able to sense food in your stomach, but you can still eat more.





#### On Your Food Line

#### ... Comfortably full

Physically you're at a nice stage when you feel a little full - your stomach has food in it and you're pleasantly full.





#### Over your Food Line

#### ... Uncomfortably full

You should have stopped some mouthfuls ago because now you're finding eating may no longer be enjoyable and you may not even really taste the food you are eating.



Alex is 17 years old and has a BMI of 25kg/m2. He experiences depression and lives at home with his parents.

He has a poor lifestyle with low physical activity and little sleep

His mum attends appointments

1. What might be some simple suggestions or questions that might be useful?



1. What might be some simple suggestions or questions that might be useful?

Create and ensure strong family focus

Encourage engagement with people, sitting with them

Cooking meals can be useful good way to create self efficacy

No Money No time https://nomoneynotime.com.au/







Thank you

Q & A

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