

“Health Matters”

— a Baker IDI public lecture series —

Eat, Move, Monitor: Diabetes prevention and management

Tuesday 29 November 2016

5pm – 6.30pm

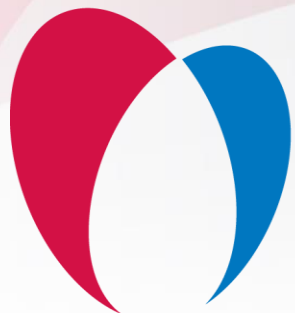


Baker IDI
HEART & DIABETES INSTITUTE

CELEBRATING **90** years of
RESEARCH
EXCELLENCE

**Baker IDI Heart and Diabetes
Institute is an independent,
internationally-renowned medical
research facility, with a history
spanning more than 90 years.**

www.bakeridi.edu.au



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Diabetes: *Prevention and Management*

Maggie Stewart: Credentialed Diabetes Nurse Educator

29th November 2016

Diabetes: The Facts and Figures

Worldwide

- In 2015 415 million people had diabetes
- This equates to 1 in every 11 adults
- Predicted that in 2040 642 million people will have diabetes
- This equates to 1 in every 10 adults

Australia

- 280 people develop diabetes every day
- That is 1 adult every 5 minutes
- Around 1.7 million Australians have diabetes

<http://www.idf.org/about-diabetes/facts-figures>

<https://www.diabetesaustralia.com.au/diabetes-in-australia>

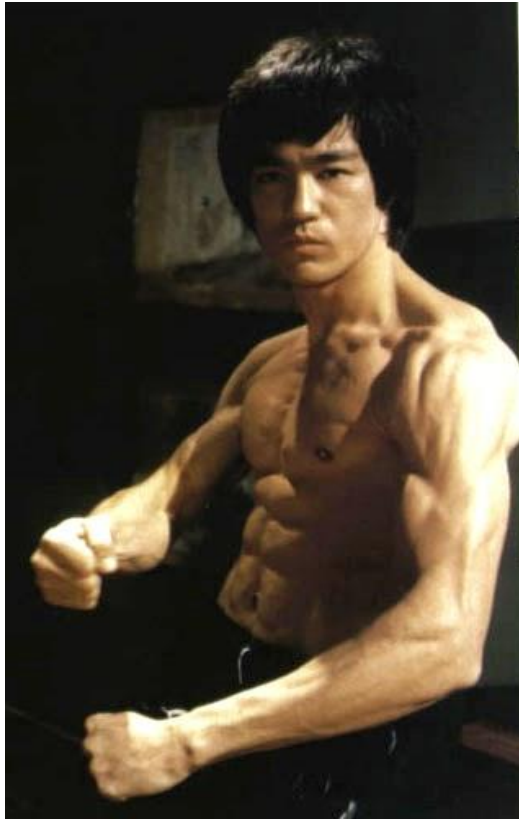
Why is this number growing?

Lifestyle

- Our jobs are sedentary
- We use time saving and time wasting devices
- We do not exercise enough
- We eat too much / or too well



This is what the Aussie male thinks he looks like



But the reality is more like this!



The proportion of people who are obese has increased across all age groups over time.

Pre Diabetes: *What does it mean?*

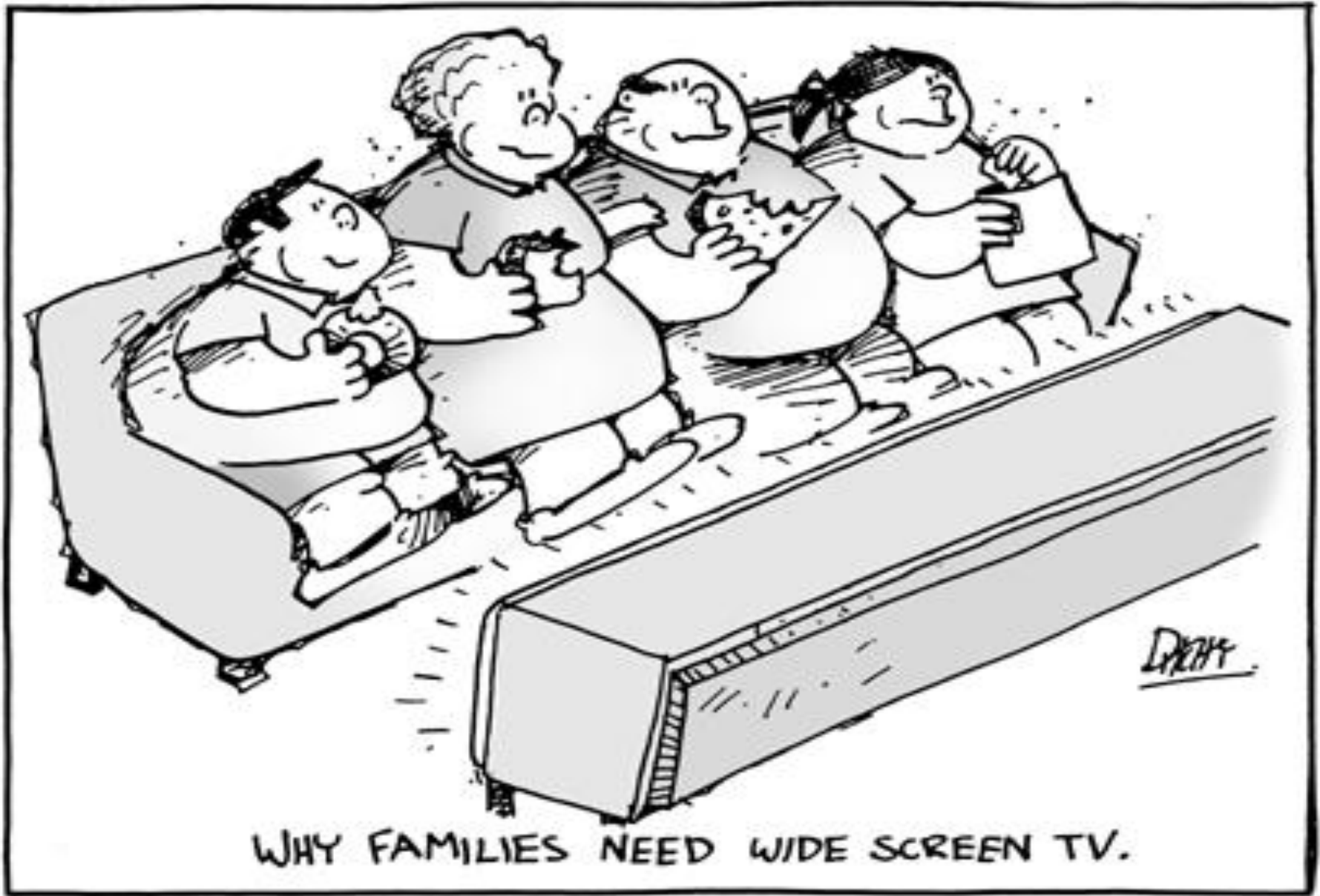
- Pre Diabetes occurs when the insulin in the body is not working effectively, causing insulin resistance.
- Both pre diabetes and diabetes are conditions where the level of glucose in the blood is higher than normal.

Pre Diabetes: *Why do we manage it?*

Having Pre Diabetes increases your risk of:

- Developing Type 2 Diabetes
- Developing Diabetes within next ten years.
- Heart disease and stroke.

Progression to Type 2 Diabetes can be delayed or prevented by treating Pre-Diabetes.



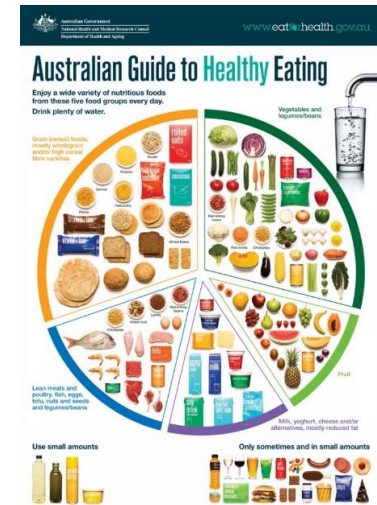
WHY FAMILIES NEED WIDE SCREEN TV.

Pre Diabetes: *How do we manage it?*

The aim is to:

- Reduce risk of heart disease and stroke
- Prevent or delay the development of type 2 diabetes.
- Reduce risk factors such as:
 - Overweight
 - Physical inactivity

Reducing these risk factors can also help to delay or reduce the complications associated with diabetes.



ESSA
Eating Well and Active



Diabetes: *What is it?*

- Diabetes is a disease characterised by high blood glucose levels
- It results from poor insulin secretion, action or both.

Diabetes: *What is it?*

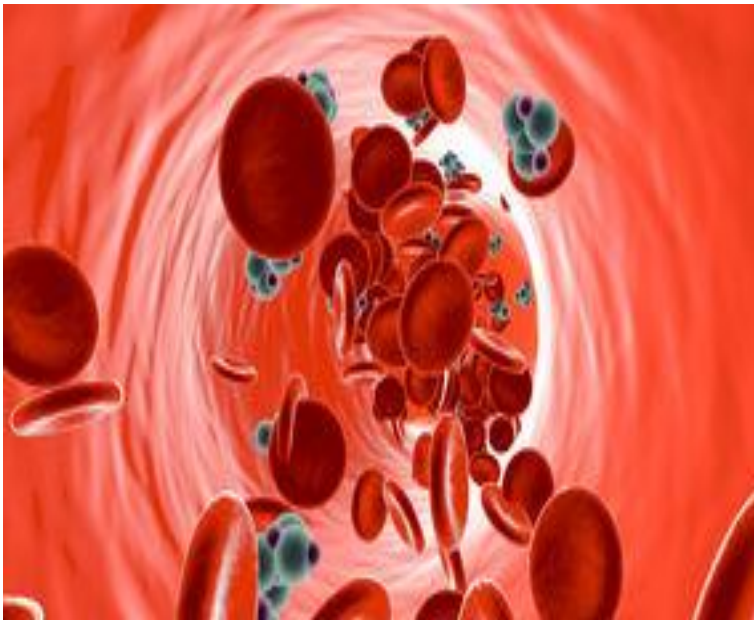
Just as a **car** needs **fuel** to give it the energy to keep working,

Our **body** needs **fuel** to provide energy to keep working.

We get this **fuel** from our **food**.



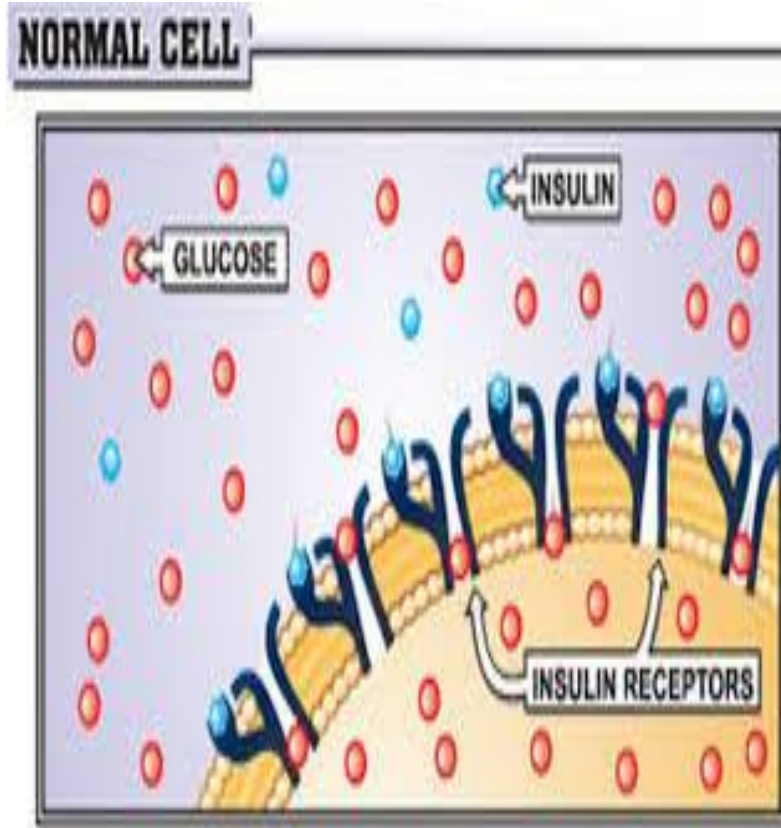
Foods containing carbohydrates get digested and the end product is glucose



<https://www.dreamstime.com/illustration/blood-glucose-meter.html>

- Glucose gives our body energy
- Glucose travels in our blood stream but cannot be used as energy until it gets into our body cells

The Role of Insulin



- Insulin is the key that lets the glucose move from blood stream into our cells
- This give us energy.

Picture from <http://theheartysoul.com/insulin-test-to-detect-diabetes/>

Insulin: What Happens in Diabetes?

If there is not enough insulin or the insulin is being produced but not able to do its job.

This results in:

- **Higher** levels of glucose in the blood stream
- Cells **don't have access** to that glucose
- The cells **don't have the energy** to work well
- This can make people **sick**

Type 2 Diabetes

- Accounts for 85-90% of diabetes
- Influenced by your genes and your lifestyle
- Pancreas produces insulin, but not enough
- Insulin resistance
- Slow onset



Risk Factors for Type 2 Diabetes

Risk factors which cannot be changed:

- Family history of diabetes (genetic)
- Age – risk increases as we get older
- Chinese/Indian/Pacific Islander >35yrs
- Aboriginal/Torres Strait Islander >35yrs
- Gender – men at higher risk
- Women who have:
 - ✓ Diabetes in pregnancy / given birth to a baby > 4.5kgs (9lbs)
 - ✓ Polycystic ovarian syndrome

Risk factors which can be changed:

- Lifestyle
 - ✓ Level of physical activity
 - ✓ The type of food we eat
- Blood pressure
- Cholesterol
- Waist – as waist increases risk increases
- Weight
- Smoking

Screening for Diabetes

People considered at high risk of developing type 2 diabetes include:

- People with prediabetes
- Aboriginal and Torre Strait Islanders aged >18 years
- All people >40 years should be screened using the AUSDRISK
- People age >40 with a BMI > 30kg/m²
- Women with a history of diabetes in pregnancy
- People with a history of heart disease or stroke
- Women with polycystic ovarian syndrome, particularly if obese
- Those with a first degree relative with type 2 diabetes
- People taking anti-psychotic medication

The Australian Type 2 Diabetes Risk Assessment Tool (AUSDRISK)

1. Your age group

- Under 35 years 0 points
- 35 – 44 years 2 points
- 45 – 54 years 4 points
- 55 – 64 years 6 points
- 65 years or over 8 points

2. Your gender

- Female 0 points
- Male 3 points

3. Your ethnicity/country of birth:

3a. Are you of Aboriginal, Torres Strait Islander, Pacific Islander or Maori descent?

- No 0 points
- Yes 2 points

3b. Where were you born?

- Australia 0 points
- Asia (including the Indian sub-continent), Middle East, North Africa, Southern Europe 2 points
- Other 0 points

4. Have either of your parents, or any of your brothers or sisters been diagnosed with diabetes (type 1 or type 2)?

- No 0 points
- Yes 3 points

5. Have you ever been found to have high blood glucose (sugar) (for example, in a health examination, during an illness, during pregnancy)?

- No 0 points
- Yes 6 points

6. Are you currently taking medication for high blood pressure?

- No 0 points
- Yes 2 points

7. Do you currently smoke cigarettes or any other tobacco products on a daily basis?

- No 0 points
- Yes 2 points

If you scored 6-11 points in the AUSDRISK you may be at increased risk of type 2 diabetes. Discuss your score and your individual risk with your doctor. Improving your lifestyle may help reduce your risk of developing type 2 diabetes.

8. How often do you eat vegetables or fruit?

- Every day 0 points
- Not every day 1 point

9. On average, would you say you do at least 2.5 hours of physical activity per week (for example, 30 minutes a day on 5 or more days a week)?

- Yes 0 points
- No 2 points

10. Your waist measurement taken below the ribs (usually at the level of the navel, and while standing)

Waist measurement (cm)

For those of Asian or Aboriginal or Torres Strait Islander descent:

- | | | |
|------------------|-----------------|-----------------------------------|
| Men | Women | |
| Less than 90 cm | Less than 80 cm | <input type="checkbox"/> 0 points |
| 90 – 100 cm | 80 – 90 cm | <input type="checkbox"/> 4 points |
| More than 100 cm | More than 90 cm | <input type="checkbox"/> 7 points |

For all others:

- | | | |
|------------------|------------------|-----------------------------------|
| Men | Women | |
| Less than 102 cm | Less than 88 cm | <input type="checkbox"/> 0 points |
| 102 – 110 cm | 88 – 100 cm | <input type="checkbox"/> 4 points |
| More than 110 cm | More than 100 cm | <input type="checkbox"/> 7 points |

Add up your points

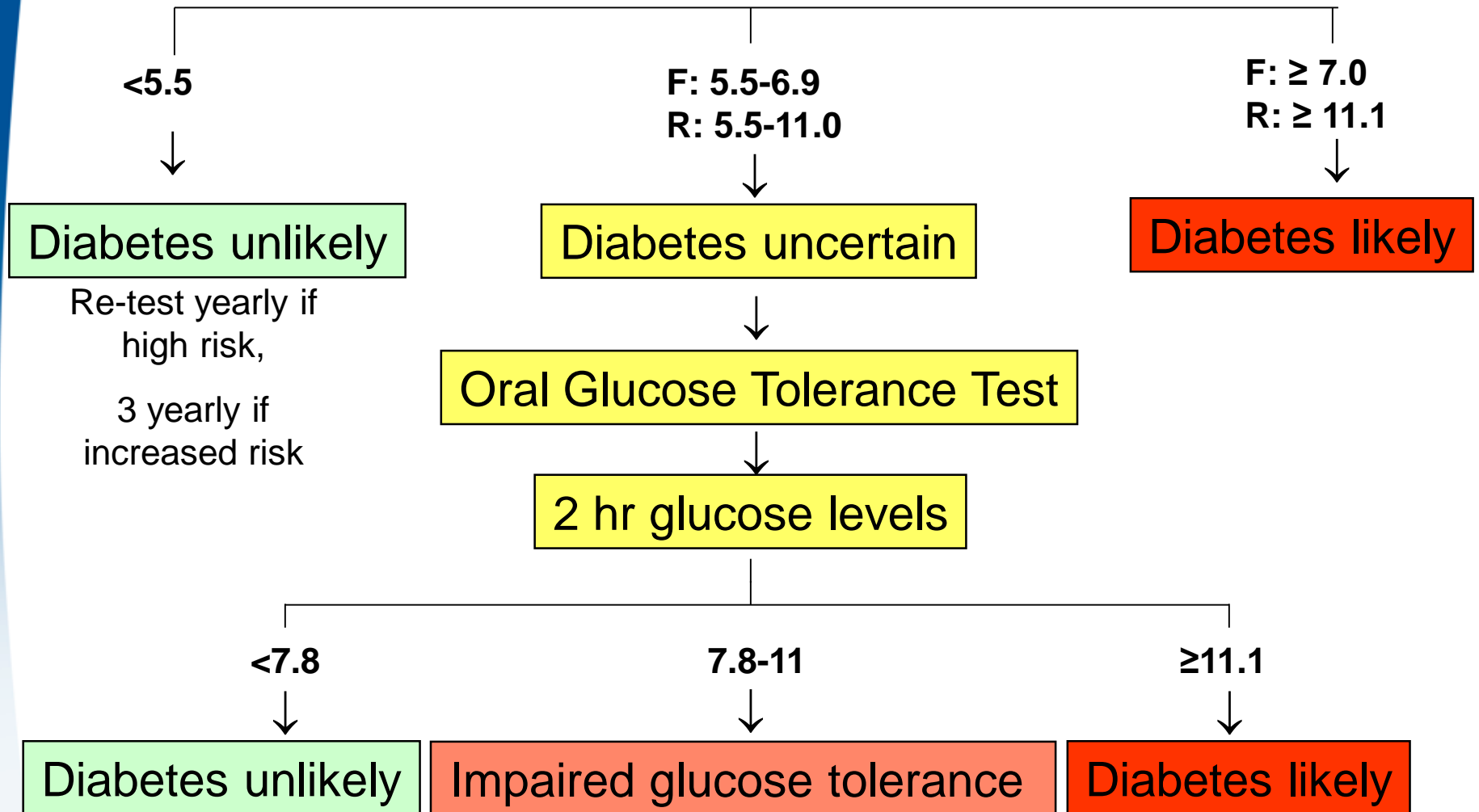
Your risk of developing type 2 diabetes within 5 years*:

- 5 or less: Low risk**
Approximately one person in every 100 will develop diabetes.
- 6-11: Intermediate risk**
For scores of 6-8, approximately one person in every 50 will develop diabetes. For scores of 9-11, approximately one person in every 30 will develop diabetes.
- 12 or more: High risk**
For scores of 12-15, approximately one person in every 14 will develop diabetes. For scores of 16-19, approximately one person in every 7 will develop diabetes. For scores of 20 and above, approximately one person in every 3 will develop diabetes.

*The overall score may overestimate the risk of diabetes in those aged less than 25 years

If you scored 12 points or more in the AUSDRISK you may have undiagnosed type 2 diabetes or be at high risk of developing the disease. See your doctor about having a fasting blood glucose test. Act now to prevent type 2 diabetes.

Diagnosis of Pre-diabetes and Type 2 Diabetes



RACGP guidelines <https://static.diabetesaustralia.com.au/s/fileassets/diabetes-australia/5d3298b2-abf3-487e-9d5e-0558566fc242.pdf>

Diabetes: *Why do we treat it?*

- High blood glucose levels increase risk of damage to your blood vessels.
- This increases your risk of:
 - heart disease and stroke
 - diabetic eye disease
 - kidney problems
 - nerve problems with your feet
 - gum disease and tooth decay

Aims of Treatment



- Aim for BGLs between 6-8mmol/L before meals.
- Aim for BGLs between 8-10mmol/L 2 hours after meals.
- HbA1c 7% or less
- Prevention / early detection and treatment of complications

RACGP guidelines <https://static.diabetesaustralia.com.au/s/fileassets/diabetes-australia/5d3298b2-abf3-487e-9d5e-0558566fc242.pdf>

Complications Screening

3-6 Monthly

- Blood pressure – 140/90
- HbA1c – 7% or less
- Weight and waist
- Foot assessment
 - Protective sensation
 - Pulses



12 Monthly

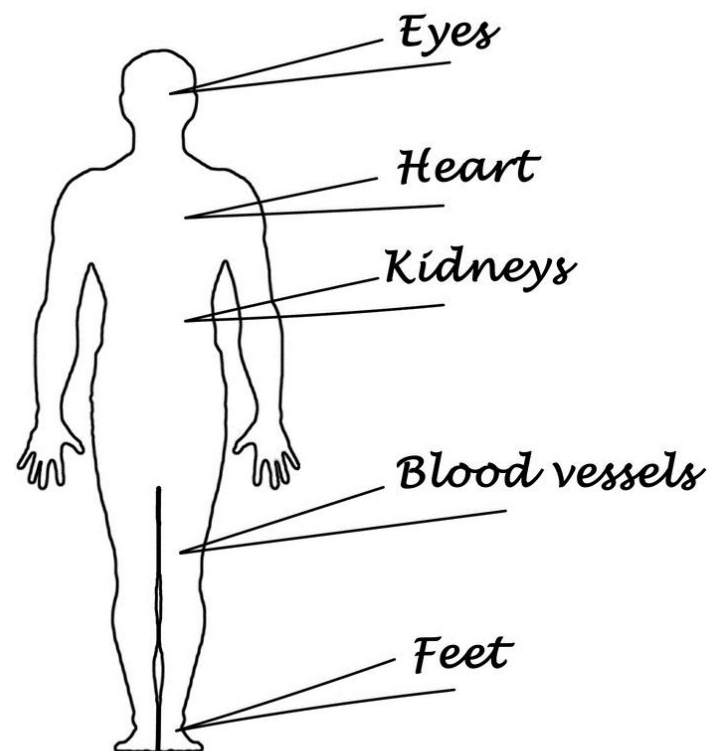
- Blood Lipids
 - Total cholesterol <4mmol/l
 - HDL > 1 mmol/l
 - LDL <2.0 mmol/l
 - Triglyceride <2.0 mmol/l
- Urine microalbumin – checks kidney function
- Eye check
- Dental check

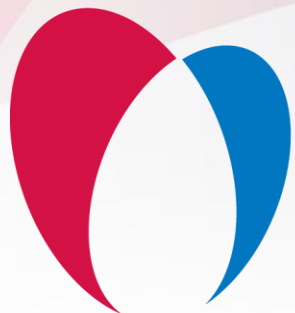


The Benefits of Action

By changing diet and lifestyle this will assist in preventing:

- Heart attacks and strokes: **up to 4 times more likely** in people with diabetes
- Blindness (retinopathy): **1 in 6 people** with diabetes
- Kidney damage: **3 times more common** in people with diabetes
- Amputations: **15 times more common** in people with diabetes





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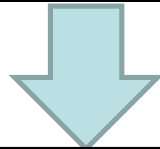
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Healthy Eating: *With or without diabetes*

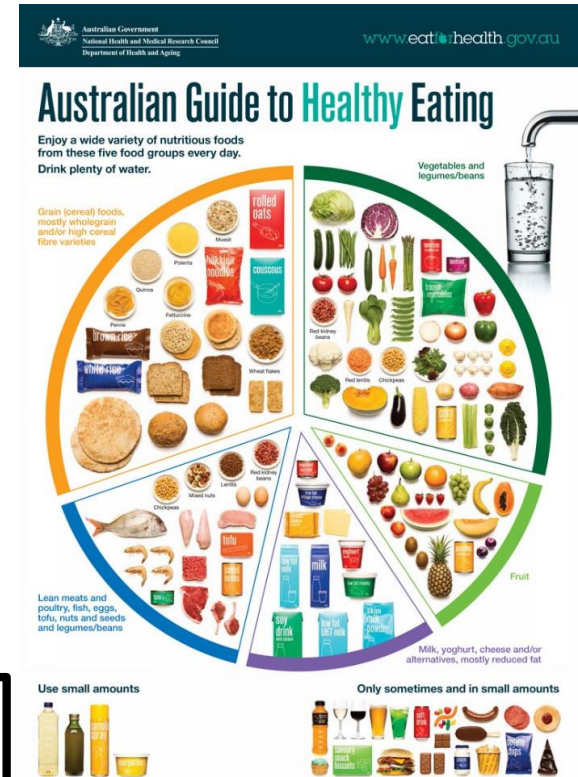
Marisa Mafrici (nee Nastasi)
Accredited Practising Dietitian

What is a Healthy Diet?

Appropriate portion sizes
Low Glycaemic Index (GI)
Reduced saturated fats,
added sugar and salt
High dietary fibre



Healthy weight
Prevention or management of
a chronic disease



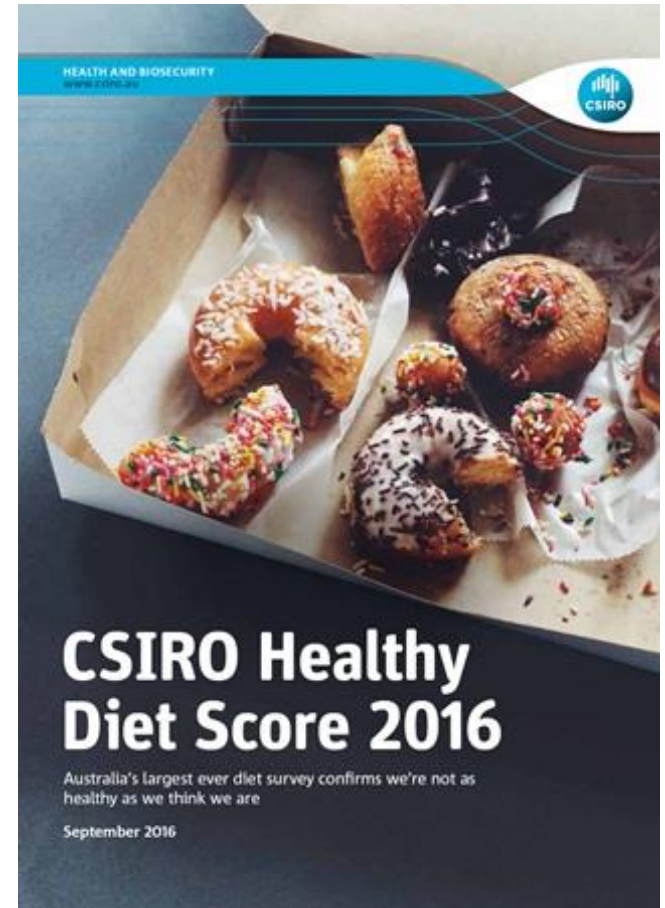
Australian Guide to Healthy Eating
www.eatforhealth.gov.au

Rating Your Diet

- Launched May 2015 by CSIRO → Healthy Diet Score
- Australian average score of 59 out of 100
- Women have better diets than men
- Older Australians have better diets
- Construction workers had the poorest quality diets
- Intake of discretionary foods is too high



<https://my.totalwellbeingdiet.com/healthy-diet-score>



Label Reading

- Allows healthy packaged foods to be chosen
- Use Per 100g column
 - ✓ Reduced **saturated fat**
 - ✓ Reduced **added sugar**
 - ✓ Reduced **salt (sodium)**
 - ✓ High **fibre**



Use the food labelling criteria below to choose the best everyday foods. Limit foods that don't meet these criteria.

FOOD	BEST CHOICE (PER 100G)
Saturated Fats	2g or less
Sugars	15g or less
Sodium	120mg or less is best, 120mg-400mg is acceptable
Fibre	5g or more

This information is provided as a general guide.

You should seek independent professional advice where appropriate.

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Low Fat vs High Fat









- Compared to a low fat diet, a diet rich in unsaturated fats such as extra virgin olive oil and nuts can have positive impacts on overall health.
- 50-60ml extra virgin olive oil (e.g. 3 tablespoons) and/or 30g nuts (e.g. x20 almonds) per day when consumed in conjunction with a Mediterranean-style diet can improve:
 - ✓ Blood pressure, cholesterol and blood glucose management
 - ✓ Weight loss maintenance



Babio N et al. (CMAJ. 2014)

A Mediterranean Diet: *What is it?*

- Olive oil: 60mls/day (3 tablespoons)
- Leafy vegetables with every lunch and dinner meal:
100g green leafy vegetables, 100g tomato, 200g of other vegetables
- 2+ legume based meals per week (250g x 2/week)
- 2+ serves (150-200g) of fish per week, including oily fish
- Red meat and chicken (smaller portions and less frequently)
- Fresh fruit and yoghurt every day
- Wholegrain breads and cereals (smaller portions)
- Wine in moderation with meals
- Sweets and processed meat for special occasions only

Breakfast	Lunch	Dinner	Snacks
 	 	 	 

Babio N et al. (CMAJ. 2014)

Include:



Limit:



Fats: Which to use for Cooking



Use

- Canola oil
- High Oleic oil
- Sunflower oil
- Grapeseed oil
- Blended Vegetable oil or Vegetable oil that **meets** the criteria
- Olive oil
- Corn oil
- Soybean oil
- Peanut oil



Replace

- Beef tallow
- Duck fat
- Cottonseed oil
- Solid fat
- Blended Vegetable oil or Vegetable oil that does **not** meet the criteria
- Palm oil
- Coconut oil
- Ricebran oil
- Lard

Is My Cooking Oil Healthy?

A healthy oil should have:

Saturated Fat: 21.7grams per 100 grams or LESS

Trans Fat: 1.1 grams per 100 grams or LESS

Where to Look?

Check the Nutrition Information Panel on the oil drum you are currently using.



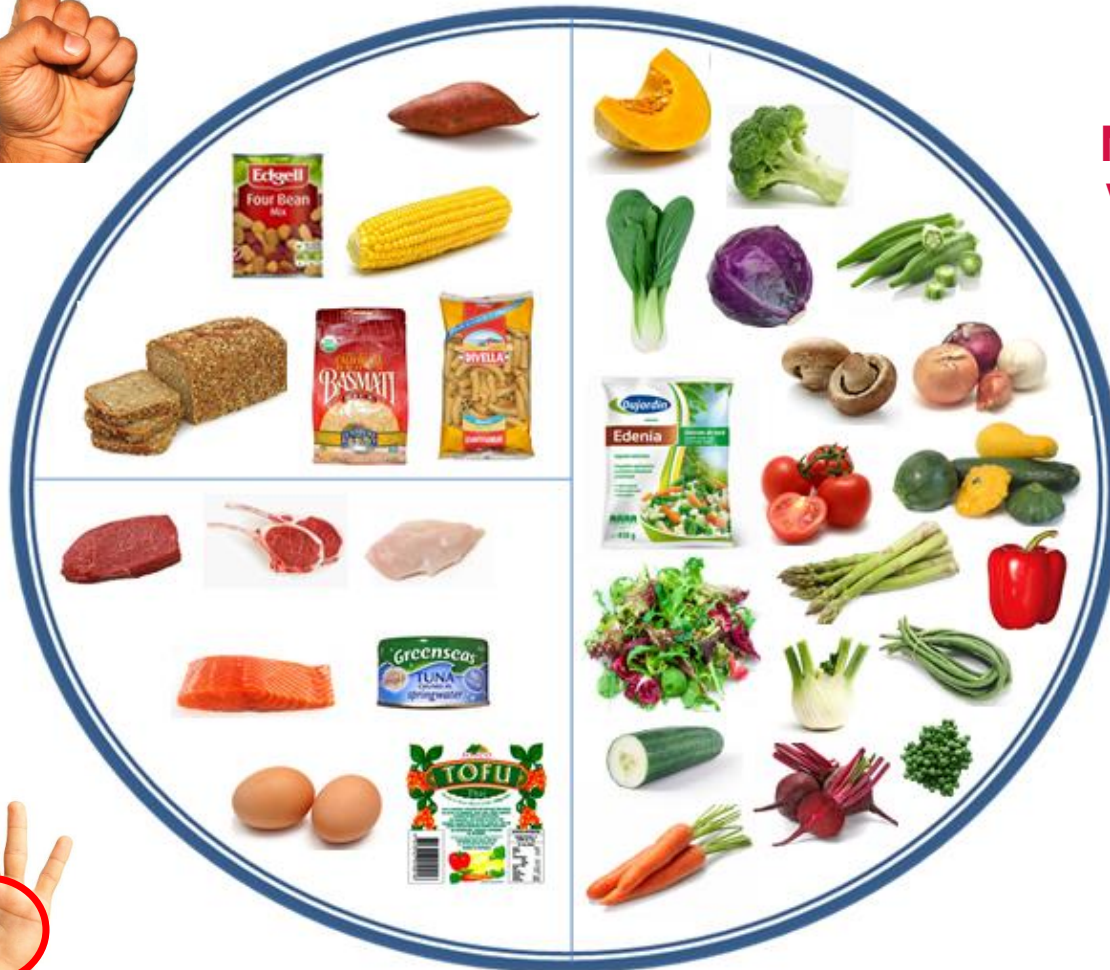
www.heartfoundation.org.au

Achieving Correct Portion Sizes

Carbohydrates



- Bread
- Rice
- Potato and Corn
- Pasta and Noodles
- Legumes and Lentils



Non Starch Vegetables & Herbs

(except potato, sweet potato and corn)

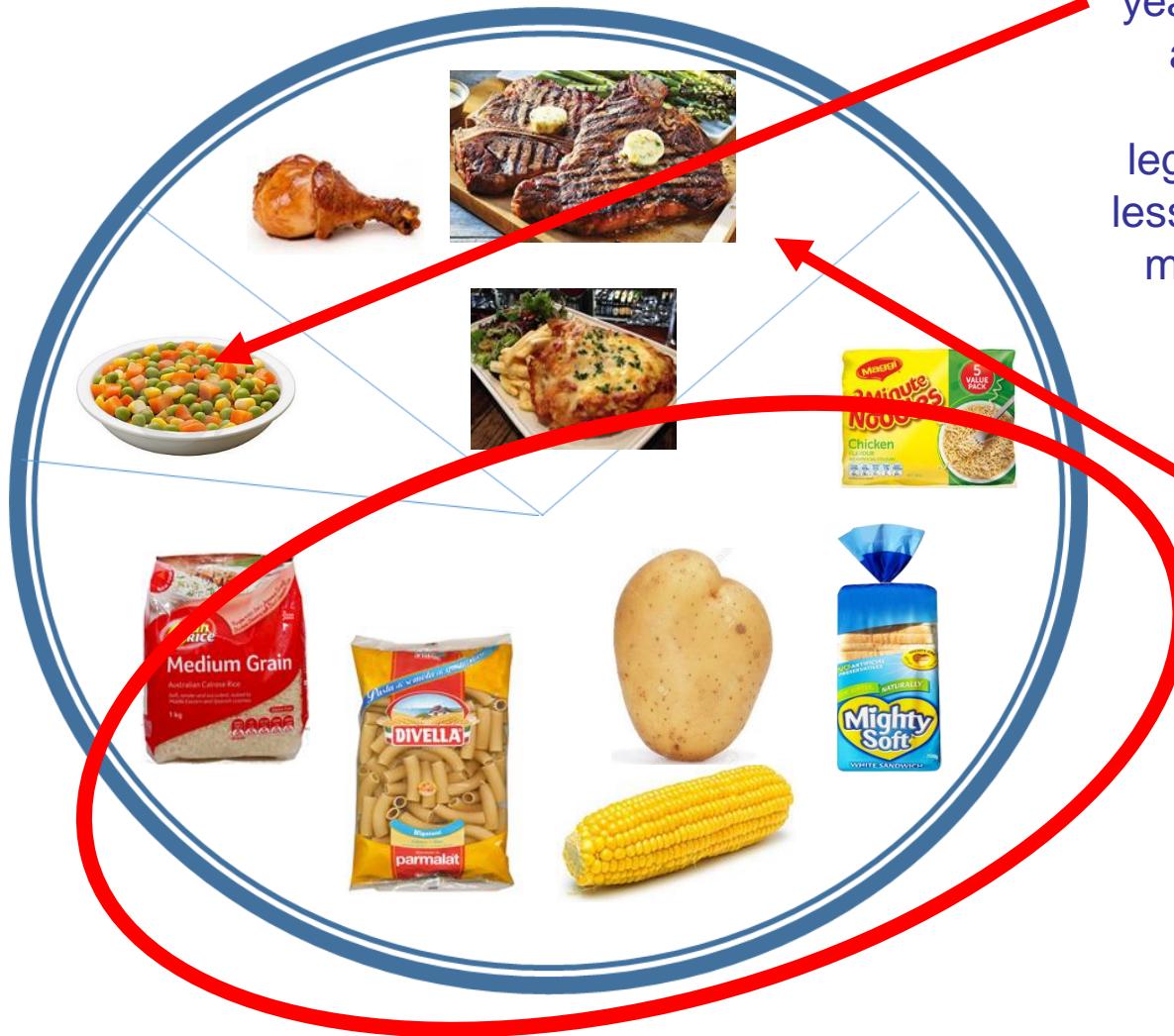
Protein

- Lean Meat
- Skinless Poultry
- Fish
- Tofu
- Eggs
- Reduced fat cheese



The Reality...

Overall, Australians aged two years and over consumed an average of 2.7 serves of vegetables and legumes/beans per day, with less than 4% of the population meeting the recommended number of serves.



Around 14% of Australians met the recommended consumption of lean meats and alternatives.

Source: Australian Bureau of Statistics, Australian Health Survey: Consumption of Food Groups from the Australian Dietary Guidelines, 2011-12

Carbohydrate Digestion and Glycaemic Index (GI)



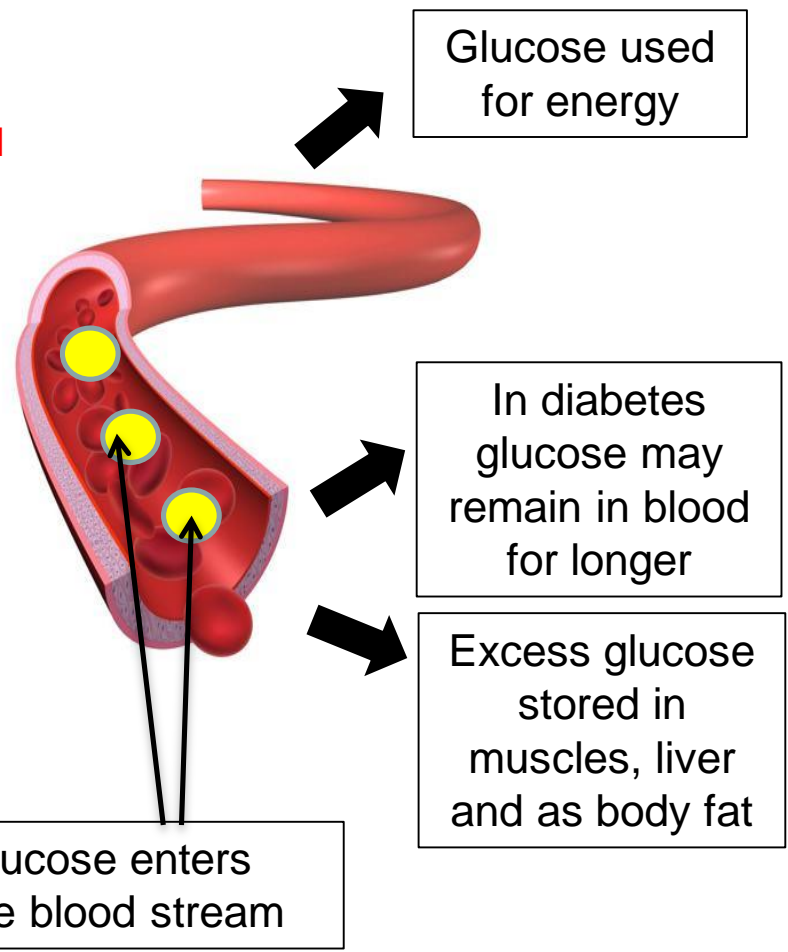
Carbohydrates

Quick digestion = High GI

Digestion

Speed of digestion of carbohydrates = GI

Slow digestion = Low GI



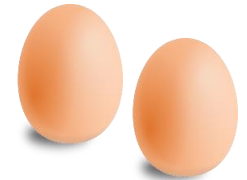
Lower vs. Higher Glycaemic Index Carbohydrates



Practical Examples: *Breakfast*



$\frac{3}{4}$ cup cereal, 150mls milk, 1 cup strawberries, 2 teaspoons LSA



2 slices bread, 2 whole eggs, $\frac{1}{4}$ avocado, 1 cup mixed vegetables



$\frac{1}{2}$ cup fruit and nut muesli, 150g low fat yoghurt

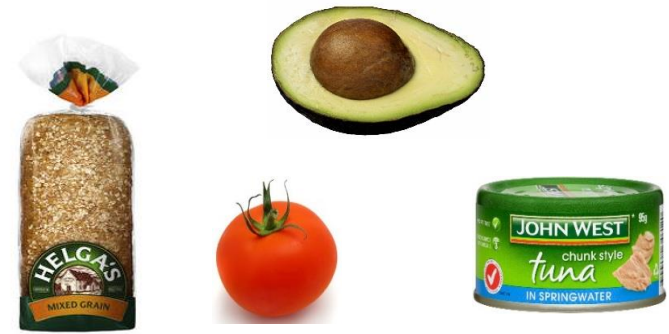


2 slices of seeded fruit loaf, 1 tablespoon cottage cheese and 1 fruit e.g. $\frac{1}{2}$ cup blueberries

Practical Examples: *Lunch*



2/3 cup long grain rice, salad (1.5 cups), 150g skinless chicken breast



2 slices wholegrain bread, 90g tuna, ¼ avocado, tomato



1 cup soba noodles, 1 cup steamed vegetables and 170g tofu with soy and sesame oil dressing



150g cooked lentils, 40g feta, 1.5 cups mixed vegetables, 10 walnuts, fresh herbs, and dressing of olive oil and lemon juice

Practical Examples: *Dinner*



1 cup cooked pasta with Bolognese sauce,
plus side salad



Slow cooked lamb (150g), Sweet potato (200g)
and carrot and green beans



Chicken (150g), Vegetable and Soba Noodle
(1cup) stir-fry



Lentil dahl (100g) and basmati rice (2/3 cup)
with cauliflower and spinach

Practical Examples: Snacks



Carbohydrate snacks



Low carbohydrate snacks

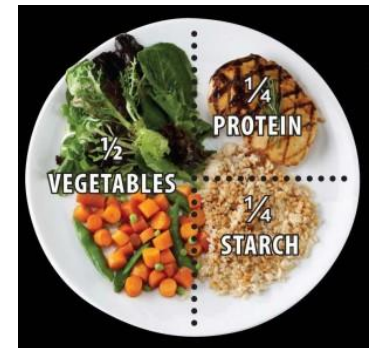
Common Issues During the Festive Season

- Over filling the plate
- Multiple courses
- Eating because its there
- Increased snacking
- Dessert/s
- Sauces/Condiments
- Soft drinks
- Alcohol



Useful Tips during the Festive Season

- **Assess all your options** before you dig in!
- Fill your main meal plate **ONCE** (*with the exception of vegetables*)
- Aim to fill half the plate with **salad or vegetable** options before making room for meat or carbohydrate (starch) foods.
- **Make salads and vegetables more exciting** with low fat feta, walnuts or almonds, sliced pear, sliced egg, avocado and extra virgin olive oil.
- Request **small serves** if someone else is serving.
- It is OK to **leave some food** on your plate.
- **Alternate alcoholic beverages** with non alcoholic beverages.
- Use the following rule for desserts: **Rule of 1:**
1 Slice, 1 Scoop, 1 Spoon, 1 Piece servings!



Choosing wisely..

40g
camembert



4 prawn rice
paper rolls

50g chocolate



4 tubs
chocolate
mousse

1 slice fruit
cake with 2
spoons
custard



4 cups of fruit
with vanilla
yoghurt

½ cup honey
glazed
cashews



100g salmon,
green beans and 1
small potato

8 biscuits



2 fresh
bruschetta

Education Services at Baker IDI

- Made up of Credentialed Diabetes Nurse Educators, Accredited Practising Dietitians and Accredited Exercise Physiologists.
- Individual appointments and group education programs available.
- Appointments do NOT require a referral.
- Fees range from \$10-\$95 for an initial consultation.
- Services provide education and support for:
 - ✓ Understanding diabetes
 - ✓ Self blood glucose monitoring
 - ✓ Commencing new medications
 - ✓ Weight loss and/or management
 - ✓ Tailored dietary and exercise advice



***To make an appointment, you can call reception (03) 8532 1800
(Located Alfred Centre, Level 4, 99 Commercial Road, Melbourne)***

Accessing the Baker IDI Fact Sheets

- Label Reading
- Portion Sizes
- Salt and Blood Pressure
- Glycaemic Index
- Supermarket Shopping Guide

And many more.....

www.bakeridi.edu.au/health-hub/fact-sheets

Label Reading

Understanding how to read nutrition information will help you identify healthy choices that are:

- Lower in Energy (kJ)
- Lower in Saturated & Trans Fat
- Lower in Sugar
- Lower in Sodium (salt)
- Higher in Dietary Fibre



This guide is most suitable for processed and packaged foods such as breakfast cereals and biscuits.

Nutritional Information Panel To compare food products

To compare food products and select healthy choices use the criteria below.

NUTRITION INFORMATION		Energy
Serving Size per Package:	9	Aim for: less than 600kJ per serve for a food or drink consumed as a snack.
Serving Size:	83.5g (2 slices)	
	Quantity per serve	Quantity per 100g
Energy	918 kJ	1099kJ
Protein	6.1g	7.3g
Fat, Total	2.8g	3.3g
- Saturated	0.3g	0.4g
- Trans	<0.1g	<0.1g
- Polyunsaturated	1.5g	1.8g
- Monounsaturated	0.9g	1.1g
Carbohydrate Total	39.8g	47.7g
- Sugars	16.3g	19.6g
Dietary Fibre	6.6g	7.9g
Sodium	230mg	275mg
Sodium (Salt)		Sugar
Aim for: 120mg / 100g or less		Aim for: 15g / 100g or less
Exception: 400mg / 100g or less is acceptable for some products. For bread and savoury crackers choose products with the lowest sodium.		Note: Trans fats may not be listed on the label.
		Fibre
		Aim for: 5g / 100g or more
		Note: Choose foods with the highest dietary fibre.

Exercise for the prevention and treatment of Type 2 Diabetes

Dr Steve Fraser

Director, [Master of Clinical Exercise Physiology](#)

School of Exercise and Nutrition Sciences

Faculty of Health, Deakin University



What you might get out of today's session?

- How can you help prevent type 2 diabetes
- How does exercise help?
- What exercises should you do?
- How to exercise safely and make it part of your routine
- Where to next?

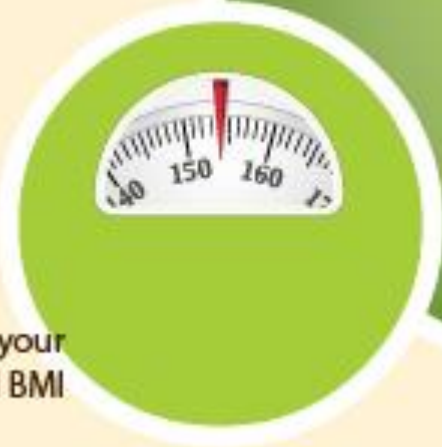
Monitor and/ or lower your blood pressure and cholesterol



DIABETES PREVENTION 101



30 minutes of activity per day five days per week or 150 per week. *Helps lowers risk of developing type 2 by* **58%**



Manage your weight and BMI



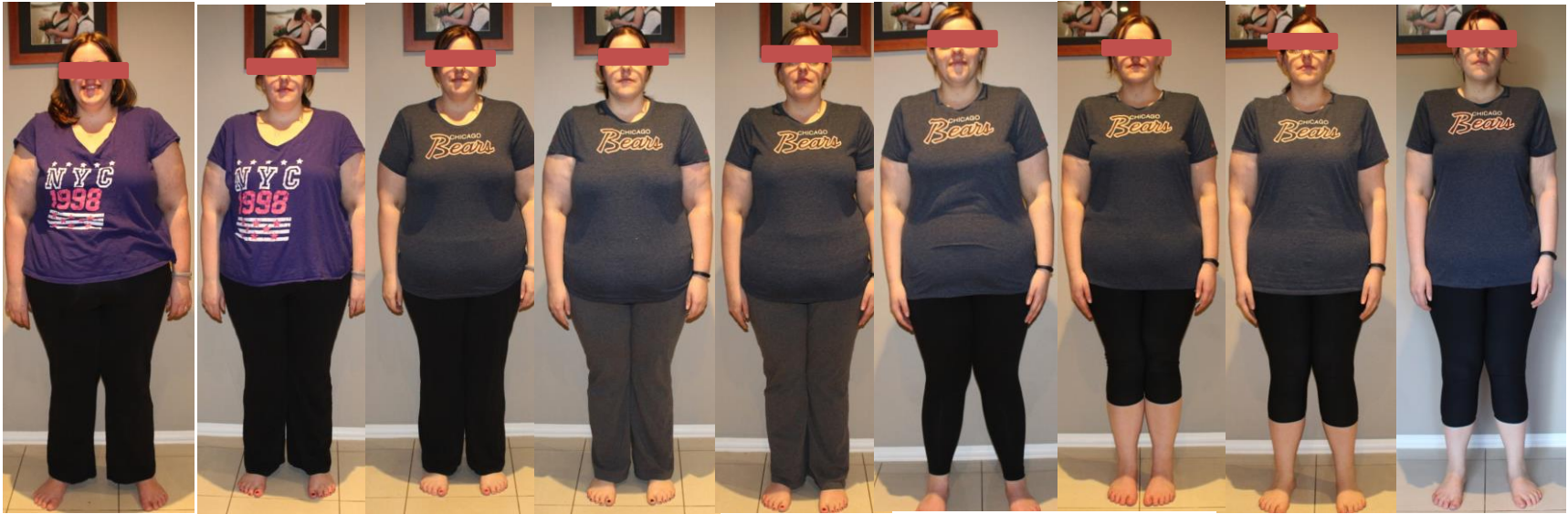
Eat a healthy diet. Less fats, more fiber, whole grain, veggies, fruits, lean meat.



Quit smoking



Information from American Diabetes Association.



Sit Less/move more

Each additional hour beyond average of 9 hours you are sitting/sedentary each day
↑diabetes risk by 20%

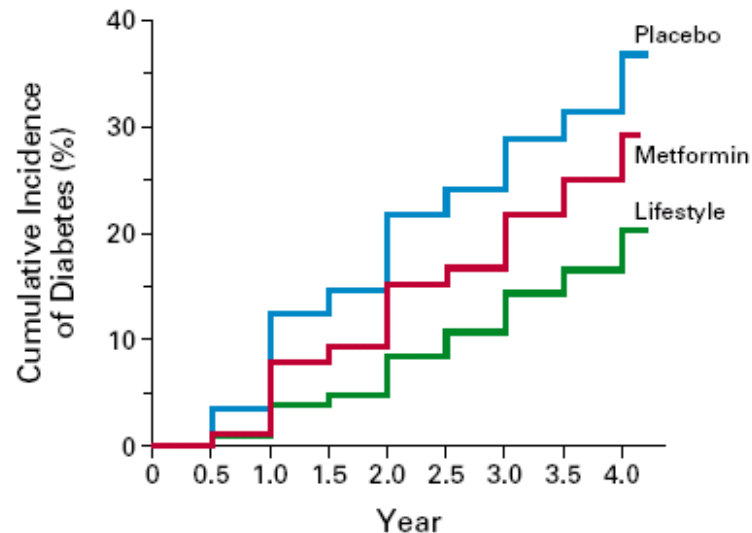
Take activity breaks every half hour



Preventing Type 2 Diabetes

Incidence of Diabetes:

- Lifestyle: 58% decrease
- Metformin: 31% decrease
- Beneficial effects of prevention or delay of diabetes persisted for at least 10 years



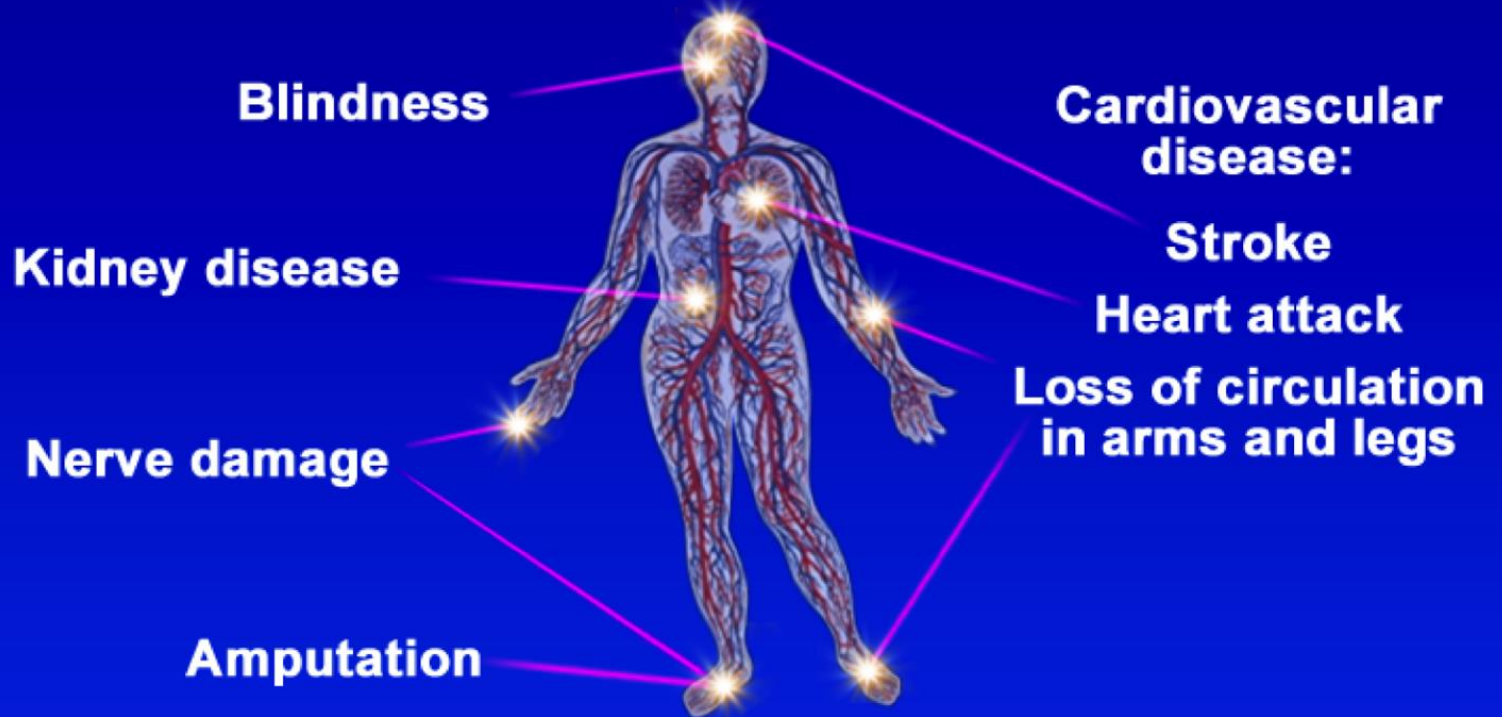
Diabetes Prevention Program Research Group. N Eng J Med, 2002
Knowler WC et al. Lancet 2009; Crandall JP et al. Nat Clin Pract Endo Metab 2008

How can exercise help?

- Help clear glucose
- Improve insulin action
- Lowers HbA₁C by 0.66%
- Reduce cardiovascular risk
- Helps keep weight off
- Helps build muscle
- Improves quality of life



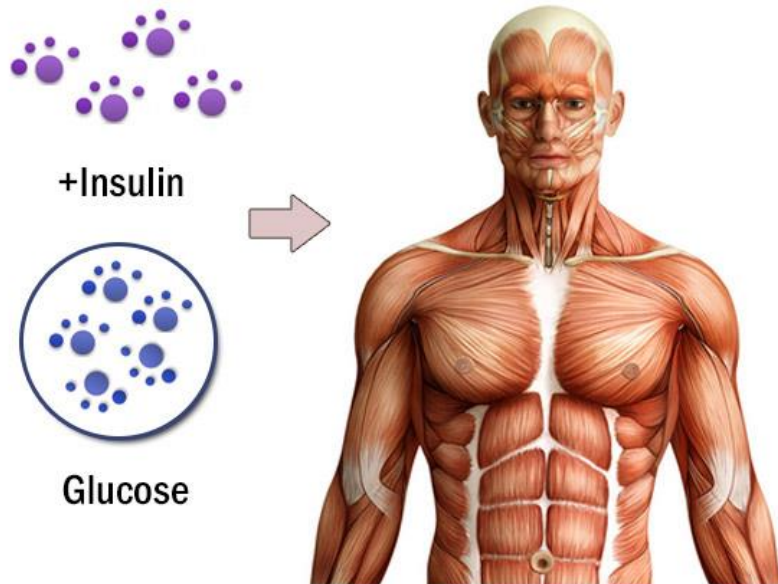
Chronic complications of diabetes



Exercise Improves Glucose Control

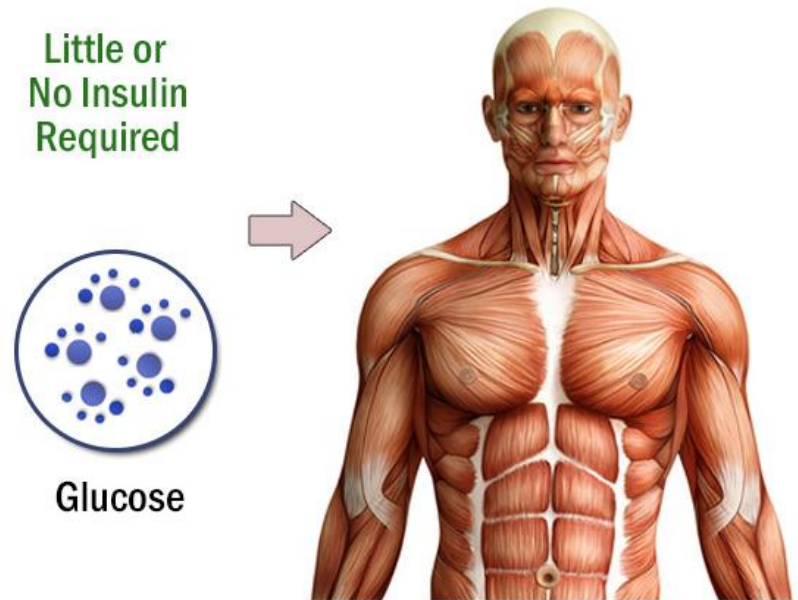
Insulin **Dependent** Glucose Uptake

Pre-exercise: Insulin is required to transport glucose into tissues

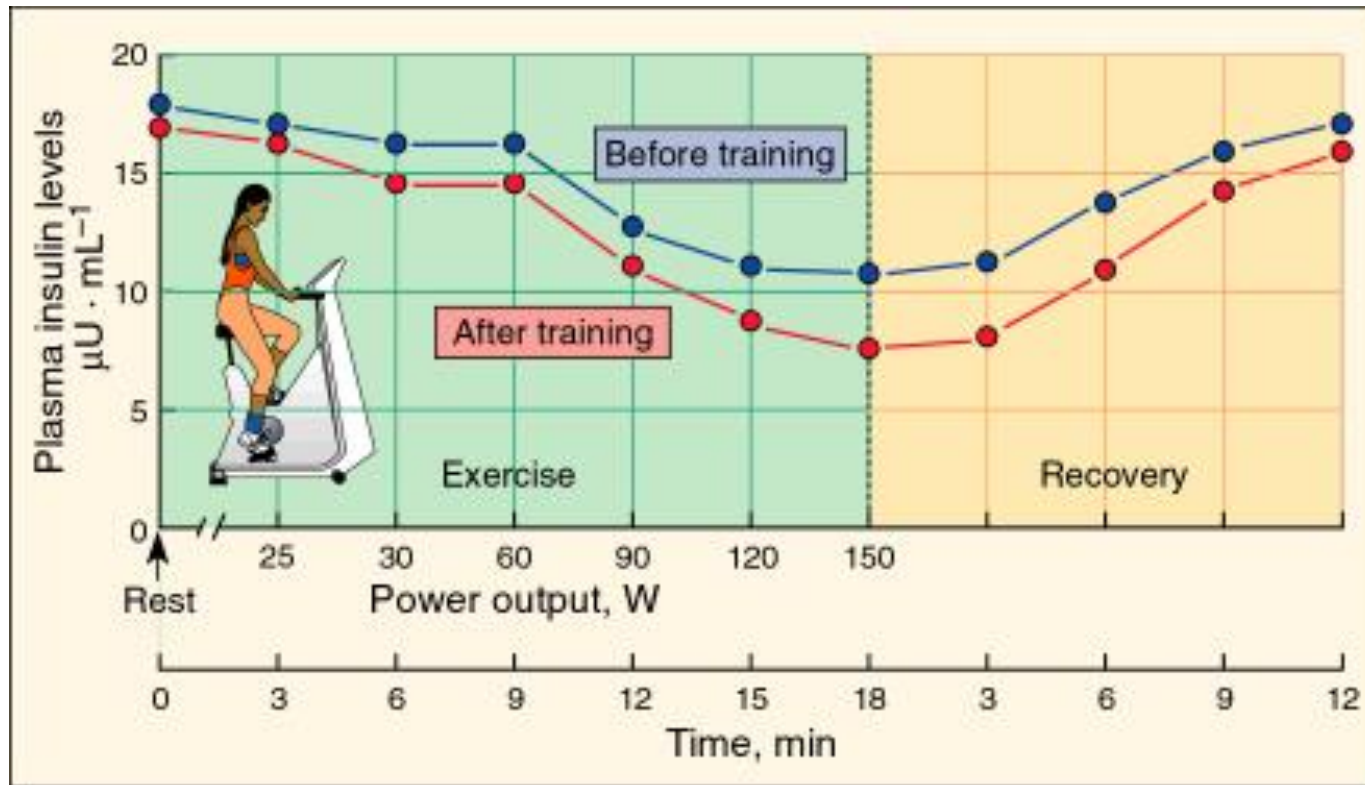


Insulin **Independent** Glucose Uptake

Post-exercise: Tissues can uptake glucose without the use of insulin



Exercise training \uparrow insulin sensitivity



Exercise Is Medicine

- Dose 50-70% of max
- Frequency, at least every 2 days
- 210 mins per week

Ask your doctor or nurse about a Green Prescription.
Sometimes the best medicine is a dose of physical activity.

WALK
Take one daily.

GYM
Visit as directed.

JOGGING
On its own or mix with walking.

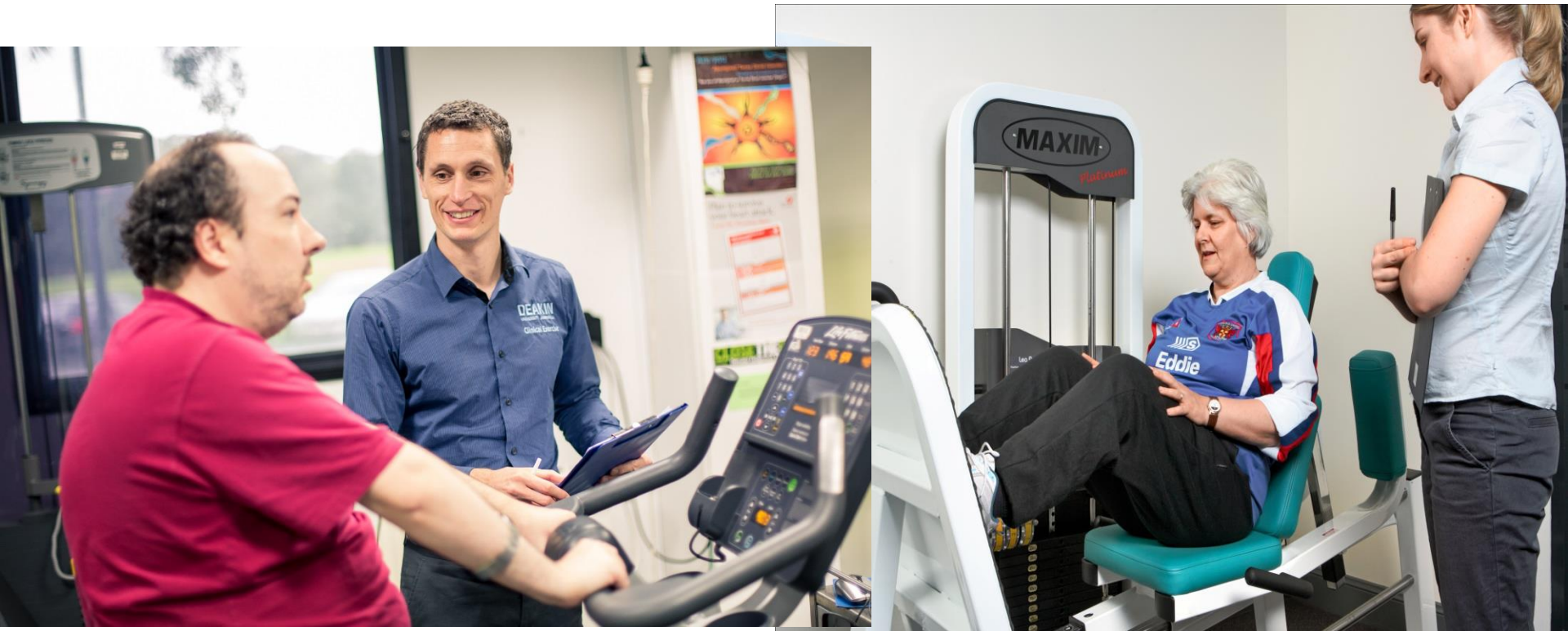
SWIM
Take with water.

CYCLING
Take sitting down.

HILLARY COMMISSION
PHARMAC247
PHARMACEUTICAL MANAGEMENT AGENCY

0800 ACTIVE (218483)

What Exercise is Best?



Exercise Guidelines

Aerobic exercise 50-70% of max heart rate

Frequency, at least every 2 days

5-7 times per week

Resistance training 8-10 exercises

2 or more sessions per week

www.essa.org.au



Exercise Safely

Consult GP

Aim to exercise 1-3 hours after eating

Appropriate footwear/fluid intake

Monitor blood glucose before, during and after exercise

If unsure seek advice from an accredited exercise physiologist



What is your biggest barrier that prevents you from exercising

Don't have time

Lack of knowledge

Don't enjoy it

Costly (gym membership)

CLINICAL EXERCISE PHYSIOLOGY SERVICES

DIABETES SERVICES

THE WEIGHT ASSESSMENT & MANAGEMENT CLINIC

THE PREVENTIVE MEDICINE CLINIC

HEALTHY HEARTS CLINIC

CLINICAL EXERCISE PHYSIOLOGY SERVICES

- What is an accredited exercise physiologist?
- Benefits of Exercise
- What you can expect

HEALTH FACT SHEETS

HEALTH PROFESSIONALS TRAINING

INTERNATIONAL PROJECTS

LIFT FOR LIFE

ONLINE STORE

BIOBANK

GUIDELINES

RELATED LINKS

Clinical Exercise Physiology Services are available at the Baker IDI Clinics. Exercise physiologists deliver exercise, lifestyle and behavioural modification programs for the rehabilitation, prevention and management of chronic diseases and injuries. This service is staffed by fully accredited exercise physiologists from Deakin University who have experience with a wide variety of conditions and clientele. The services are provided in a new, fully equipped gymnasium with change rooms, lockers and showering facilities.

HOW TO BE REFERRED

You may be referred to Baker IDI's exercise physiology service by your GP or specialist. Bulk billing is also available if your GP refers you for *allied health visits* as part of a *Team Care Arrangement*. Self-referrals are also welcome.

CONTACT DETAILS:

Baker IDI Heart and Diabetes Institute
Level 4, 99 Commercial Road
Melbourne VIC 3004

T: +61 3 8532 1880

F: +61 3 8532 1899



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50 REASONS to exercise

01. Lifts your mood
02. Improves learning abilities
03. Builds self-esteem
04. Keeps your brain fit
05. Keeps your body fit & able
06. Boosts mental health
07. Boosts your immune system
08. Reduces stress
09. Makes you feel happier
10. Has anti-ageing effects
11. Improves skin tone and colour
12. Improves sleeping patterns
13. Helps prevent strokes
14. Improves joint function
15. Improves muscle strength
16. Alleviates anxiety
17. Sharpens memory
18. Helps to control addictions
19. Boosts productivity
20. Boosts creative thinking
21. Improves body image
22. Gives you confidence
23. Helps you keep focused in life
24. Improves eating habits
25. Increases longevity
26. Strengthens your bones
27. Strengthens your heart
28. Improves posture
29. Prevents colds
30. Improves appetite
31. Improves cholesterol levels
32. Lowers risk of (certain) cancers
33. Lowers high blood pressure
34. Lowers risk of diabetes
35. Fights dementia
36. Eases back pain
37. Decreases osteoporosis risk
38. Reduces feelings of depression
39. Prevents muscle loss
40. Increases energy and endurance
41. Increases sports performance
42. Increases pain resistance
43. Improves balance & coordination
44. Improves oxygen supply to cells
45. Improves concentration
46. Helps with self-control
47. Lessens fatigue
48. Increases sex drive & satisfaction
49. Makes life more exciting
50. Improves Quality of Life

“Health Matters”

— a Baker IDI public lecture series —

Eat, Move, Monitor: Diabetes prevention and management

Tuesday 29 November 2016

5pm – 6.30pm