

Health and wellness initiatives - Lunch and Learn

# 'Understanding diabetes and how to manage your risk'

**Amy Cowan** - Credentialled Diabetes Educator

Lecturer of Nursing, School of Health

MN, GradCert Diab Edn & Mgt, BN (Hons), RN, CDE, MACN

14 July 2021

## What is Diabetes?

- A condition where the body is unable to maintain healthy levels of glucose in the blood.
- Glucose is a form of sugar which is the main source of energy for our bodies. Unhealthy levels of glucose in the blood can lead to long term and short term health <u>complications</u>.
- For our bodies to work properly we need to convert glucose (sugar) from food into energy.
- A hormone called insulin is essential for the conversion of glucose into energy.
- In people with diabetes, insulin is no longer produced or not produced in sufficient amounts by the body.
- Instead of being turned into energy the glucose stays in the blood resulting in high blood glucose levels.



## **Symptoms of Diabetes**

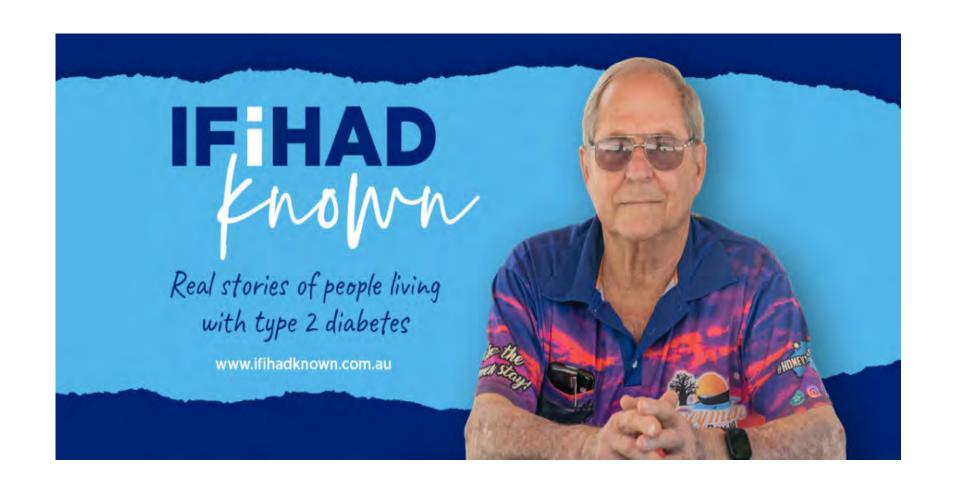
Being more thirsty than usual Passing more urine Feeling tired and lethargic Always feeling hungry Having cuts that heal slowly Itching, skin infections Blurred vision Unexplained weight loss (type 1) Gradually putting on weight (type 2) Mood swings Headaches Feeling dizzy Leg cramps



## What Does it Mean to be Diagnosed with Diabetes?

- Diabetes requires daily self care and if complications develop, it can have a significant impact on quality of life and can reduce life expectancy.
- While there is currently no cure for diabetes, you can live an enjoyable life by learning about the condition and effectively managing it.
- There are different types of diabetes; all types are complex and serious. The three main types of diabetes are type 1, type 2 and gestational diabetes.





## **Diabetes in Australia**

- Diabetes is the epidemic of the 21st century and the biggest challenge confronting Australia's health system.
- 280 Australians develop diabetes every day. That's one person every five minutes
- Around 1.8 million Australians have diabetes. This includes all types
  of diagnosed diabetes (1.3 million known and registered) as well as
  silent, undiagnosed type 2 diabetes (up to 500,000 estimated)
- More than 100,000 Australians have developed diabetes in the past year
- For every person diagnosed with diabetes there is usually a family member or carer who also 'lives with diabetes' every day in a support role. This means that an estimated 2.4 million Australians are affected by diabetes every day
- Total annual cost impact of diabetes in Australia estimated at \$14.6 billion



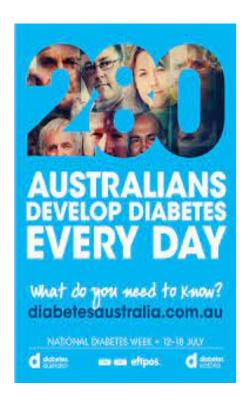
## Diabetes in Australia

#### www.aihw.gov.au

An estimated 1.2 million
Australians (4.9% of the total
population) had diabetes in
2017–18, based on selfreported data

Type 2 diabetes and type 1 diabetes accounted for 2.2% and 0.3% of Australia's disease burden respectively in 2015

Around 1.2 million hospitalisations were associated with diabetes in 2017–18 (principal and/or additional diagnosis) Socioeconomic disadvantage was associated with higher diabetes (prevalence, hospitalisation and death) rates





**85**%

In Australia, percentage of all diabetes cases attributed to Type 2 diabetes ^



280

Australians develop diabetes every day – that's one person every five minutes ^^



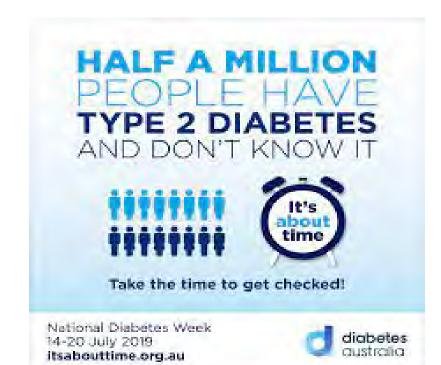
500<sup>K</sup>

People in Australia have undiagnosed Type 2 diabetes\*



\$**14**.6

The total annual estimated cost of diabetes to Australia\*\*





## **Australian Prevalence**

- The age-standardised prevalence rate of self-reported diabetes increased from 3.3% in 2001 to 4.4% in 2017–18.
- Higher number of males (5.0%) than females (3.8%)
- Increases steadily up to the 75 and over age group, with rates among those aged 65–74 more than 3 times as high as for those aged 45–54 (15.5% and 4.5%, respectively) and 1.5 times as high as those aged 55–64 (10.2%)
- Major cities (4.3%), Inner regional (3.9%) and Outer regional and remote areas (5.3%).
- Around twice as high among those living in the lowest socioeconomic areas (6.7% and 5.8% for males and females, respectively) as in the highest socioeconomic areas (4.1% and 2.2% for males and females, respectively)
- Around 7.9% of Indigenous Australians (64,100 people) had diabetes according to self-reported data from the <u>ABS 2018–19 National</u> <u>Aboriginal and Torres Strait Islander Health Survey</u>



## **Diabetes Myths**

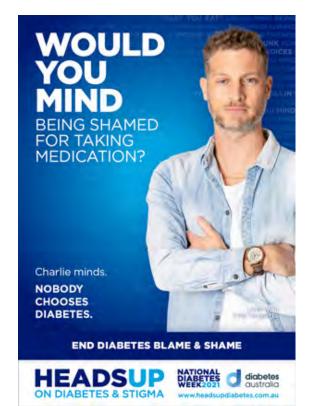
- Diabetes is not serious
- All types of diabetes are the same
- Diabetes can be prevented
- You have to be overweight or obese to develop diabetes
- You only get type 1 diabetes when you're young
- You only get type 2 diabetes when you're old
- People with diabetes can't eat dessert
- People with type 1 diabetes can't participate in sports or exercise
- No one in my family has diabetes so I don't have to worry
- People with diabetes are unsafe drivers
- Only people with type 1 diabetes need insulin

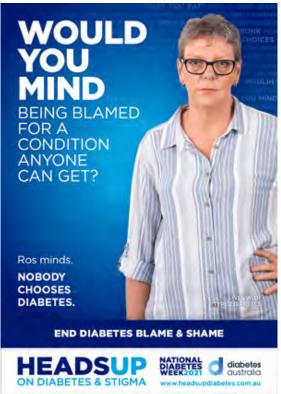


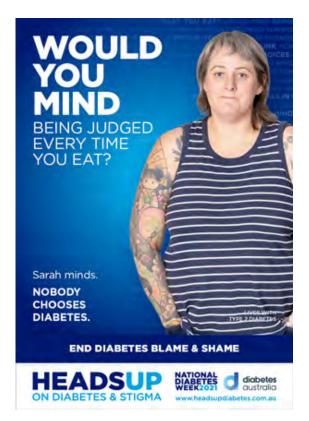
## **National Diabetes Week 2021**

- This year, the spotlight is on diabetes stigma and mental health.
- More than 4 in 5 people with diabetes have experienced diabetes stigma.
- Nearly 50 per cent of people with diabetes have experienced mental health challenges in the last 12 months.
- Stigma affects all aspects of life for people with diabetes, including their mental health and wellbeing.
- People experience diabetes stigma when they are blamed for having diabetes, while managing diabetes such as injecting insulin in public and when they experience the affects and complications of diabetes such as low blood sugar.



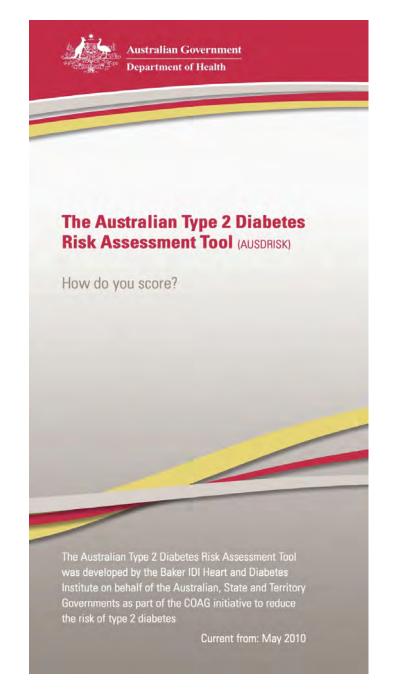






## **Assess Your Risk**







## **AUSDRISK Tool**

- The Australian type 2 diabetes risk assessment tool (AUSDRISK) is a short list of questions. It helps both health professionals and individuals to assess the risk of a person developing type 2 diabetes over the next 5 years.
- 11 questions
- You can complete the tool in 1 of 3 ways:
  - using the online interactive version
  - using the online non-interactive version
  - downloading the <u>pdf version</u> and completing it on paper.
- Visit <a href="https://www.health.gov.au/resources/apps-and-tools/the-australian-type-2-diabetes-risk-assessment-tool-ausdrisk">https://www.health.gov.au/resources/apps-and-tools/the-australian-type-2-diabetes-risk-assessment-tool-ausdrisk</a>



## **AUSDRISK Tool**

#### The Australian Type 2 Diabetes Risk Assessment Tool (AUSDRISK)

1.	Your age group			8. How often do you eat vegetables or fruit?					
	Under 35 years		0 points		Every day			0 points	
	35 - 44 years		2 points		Not every day			1 point	
	45 – 54 years		4 points	9.	On average, wou	ld you say you do a	at least	2.5 hours	
	55 – 64 years 65 years or over		6 points 8 points		of physical activity per week (for example, 30 minut a day on 5 or more days a week)?				
2.	Your gender				Yes No			0 points 2 points	
	Female		0 points				_		
	Male		3 points		<ol><li>Your waist measurement taken below the ribs (usually at the level of the navel, and while standing)</li></ol>				
3.	Your ethnicity/country of birth:								
3a.	re you of Aboriginal, Torres Strait Islander, acific Islander or Maori descent?			Wai	st measurement	(cm)			
	No Yes		0 points 2 points	For those of Asian or Aboriginal or Torres Strait Islander descent:					
			- Panto		Men	Women			
3b.	Where were you born? Australia		0 points		Less than 90 cm 90 – 100 cm	Less than 80 cm 80 – 90 cm		0 points 4 points	
	Asia (including the Indian sub-continent), Middle East, North Africa, Southern Europe		2 points		More than 100 cm	More than 90 cm		7 points	
	Other		0 points		For all others:				
4.	Have either of your parents, or any of your brothers or sisters been diagnosed with diabetes (type 1 or type 2)?				Men Less than 102 cm 102 – 110 cm More than 110 cm	Women Less than 88 cm 88 – 100 cm More than 100 cm	000	0 points 4 points 7 points	
	No		0 points		More than 110 cm	rviore than 100 cm		/ points	
	Yes		3 points	Arid	up your points				
5.	Have you ever been found to have high blood glucose (sugar) (for example, in a health examination,				Your risk of developing type 2 diabetes within 5 years*:				
	during an illness, during pregnancy)?			П	5 or less: Low ris	sk			
	No		0 points		Approximately one person in every 100 will develop diabete			elop diabetes.	
	Yes		6 points	☐ 6-11: Intermediate risk					
6.	Are you currently taking medication for high blood pressure?				For scores of 6-8, approximately one person in every 50 will develop diabetes. For scores of 9-11, approximately one person				
	No		0 points		in every 30 will de				
	Yes		2 points		12 or more: High				
7.	Do you currently smoke cigarettes or any other tobacco products on a daily basis?				develop diabetes. in every 7 will dev	<ol> <li>approximately one p For scores of 16-19, a relop diabetes. For sco</li> </ol>	pproximates of 20	ately one person and above,	
	No		0 points		approximately one	e person in every 3 wil	develop	p diabetes.	
	Yes		2 points	+The o	everall score may overestime	ate the risk of diabetes in those	e aged less	than 25 years.	
	you scored 6-11 points in the AUSDRISK you creased risk of type 2 diabetes. Discuss your	score		un		or more in the AUSD abetes or be at high ri	sk of de		



# How to Reduce Your Risk of Developing Type 2 Diabetes

- Maintain a healthy weight
- Regular physical activity
- Make healthy food choices
- Manage blood pressure
- Manage cholesterol levels
- Not smoking
- Awareness of life stressors
- Work/life balance
- Adequate sleep





## **State Based Prevention Programs**

### Victoria- Life! Program

A lifestyle modification program that helps you reduce your risk of type 2 diabetes and cardiovascular disease.

Run by expert health professionals

The program is delivered as a Group Course or a Telephone Health Coaching service.

Funded by the Victorian Government and managed by Diabetes Victoria, it is the biggest prevention program of its type in Australia.

Visit www.lifeprogram.org.au for more information.





## **State Based Prevention Programs**

#### QLD- My health for life

My health for life is a free, healthy lifestyle program for Queenslanders who are at high risk of chronic disease, including heart disease, stroke and type 2 diabetes.

The program helps participants plan and action small lifestyle changes that have long term health benefits.

My health for life recognises that everyone has their reasons for improving their health whether it is losing weight, eating better or moving more.

To find out if you are eligible or to undertake a free online health check, visit <a href="https://www.myhealthforlife.com.au">www.myhealthforlife.com.au</a> or call 13 RISK (13 7475).





## The Role of Family and Friends

### Tips on starting a 'safe' conversation

- Often, family and friends mean well but find themselves acting like or being seen as the 'diabetes police'. This can put pressure on your relationship. Try starting a 'safe' conversation, where each of you can talk about your feelings and needs.
- Ask the person with diabetes if it's okay to have a chat about their diabetes.
- Ask what they do and don't find helpful.
- Explain how you feel (e.g., worried, helpless, frustrated) and why you feel that that way.
- Agree on things you can do that the person with diabetes will appreciate.
- Agree on things they will do (or not do) without your help or comment.
- Check in on each other and change your plans if needed.



## **The Diabetes Team**

## Multidisciplinary Person-centred

- Family/support person
  - General Practitioner
- Credentialled Diabetes Educator
  - Endocrinologist
  - Accredited Practising Dietitian
    - Exercise Physiologist
      - Podiatrist
        - Dentist
      - Psychologist
      - Optometrist
      - Pharmacist



## Diabetes in the Workplace

## If you have an employee living with diabetes, here are a few things you can do to help:

- Allow for additional breaks so that the worker can check their blood glucose levels, or eat a snack in between meal breaks.
- Give the worker access to a private, clean area to check their blood glucose levels, administer insulin, or other medications. Refrigeration may also be required for safe storage.
- Try to offer stable / consistent hours of work so that the worker can maintain a regular routine.
- Offer flexibility to attend medical appointments.
- Be supportive and LISTEN!



## Resources

#### **Diabetes Australia**

https://www.diabetesaustralia.com.au/

### **NDSS**

https://map.ndss.com.au

#### Australian Institute of Health and Welfare

https://www.aihw.gov.au/reports/diabetes/diabetes/contents/how-many-australians-have-diabetes

#### National Diabetes Week 2021

https://headsupdiabetes.com.au/



## Questions?

