

BACCHUS MARSH MEDICAL CENTRE



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Dr Senthoran ARUDHSIVAM
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Dr Minh Thanh LE
Dr Faro HACE
Dr Sumaya ZAZ
Dr Inushka PERERA
Dr Sharmila KANDUKURI
Dr Nazmin SULTANA
Dr Maung THET
Dr Stephanie WILLIAMS
Dr Palwasha SAREER
Dr Teena JOSEPH

STAFF DETAILS

Katie Bielecki (Practice Manager)
Robyn Nugent (Office Manager)
Emma Thompson
(Clinical Care Co-ordinator)

RECEPTIONISTS

Amanda, Chelsea, Daen, Dana, Destiny,
Eve, Joanne, Karen, Kylie, Laura,
Lauren, Lucy, Naomi, Sandra, Susan,
Tam and Olivia

NURSES

Bri, Katie H, Keeley, Kiara, Lea, Mark,
Simone and Tammy

CONSULTATION TIMES

Monday to Friday 8 am – 8 pm
Saturday 8 am – 5 pm
Sunday & Public Holidays 9 am – 1 pm

DARLEY MEDICAL CENTRE

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HOURS

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HOURS

Monday to Friday 8am – 8pm
Saturday 8am – 5pm
Sunday & Public Holidays 9am – 1pm

YOUR DOCTOR

JULY 2024



UNDERSTANDING GENETICS



EXERCISE & BRAIN BENEFITS



EXPLAINING 'SLIPPED DISCS'



NATURAL MUSCLE SUPPORT

Compliments of your GP

Understanding pre-diabetes and why it matters

As Type 2 diabetes is now a major health issue, attention is also on pre-diabetes. By identifying and addressing pre-diabetes early, our aim is to help people manage their health risks before they worsen.

What is pre-diabetes?

A healthy body produces insulin, a hormone that helps move glucose (sugar) from the bloodstream into cells, where it's used for energy. In pre-diabetes, this process is disrupted – either because the body doesn't produce enough insulin, or because the cells have become resistant to its effects. This leads to higher blood glucose levels, but not high enough to be classified as type 2 diabetes.

Approximately one in six adults over 25 are affected by pre-diabetes, and without intervention, about one in three of them will develop type 2 diabetes within ten years. Additionally, people with pre-diabetes face an increased risk of cardiovascular disease.

Are some people more at risk?

Modifiable factors that increase the risk for pre-diabetes are the same as those for type 2 diabetes, including:

- being overweight – excess body fat, especially around your middle, causes resistance to insulin
- low levels of exercise
- high blood pressure
- high cholesterol

Non-modifiable risk factors include having close family members with type 2 diabetes, as well as belonging to certain ethnicities, such as Aboriginal, Torres Strait Islander, Māori, Pacific Islander, Middle Eastern, South Asian, and North African.

You can check your risk with the Australian Type 2 Diabetes Risk Assessment tool at:



Scan this QR Code with your phone's camera to access the link...



What can I do if I have pre-diabetes?

Pre-diabetes serves as a warning, giving you a chance to make changes that can help reduce your risk of type 2 diabetes. The good news is that pre-diabetes is a condition that responds well to healthy lifestyle changes.

The best things you can do include:

- Follow a healthy diet. Include a variety of fruits and vegetables, high-fibre complex carbohydrates like whole grains and legumes, and low-fat, lean proteins such as fish, poultry, or plant-based sources.
- Maintain a healthy body weight by following a sensible eating plan.
- Being active, aim for at least 30 minutes of moderate activity every day. Anything you can do to move more is beneficial. Include cardio and strength training, and progress gradually.

The health and lifestyle recommendations for managing pre-diabetes are also beneficial for everyone. Eating well, staying active, and adopting other healthy habits are great practices. If you need guidance or support to make these changes, we're here to help.



Learn about the risk factors for pre-diabetes and discover effective prevention strategies.

Our newsletter is free! Please take a copy with you.

Mind matters: how exercise boosts brain health

We usually notice our bodies changing with age, but may overlook how our brains can change too. While physical activity is usually associated with fitness, it also benefits brain health by supporting grey matter and white matter, which are vital parts of the brain.

Clarifying grey matter and white matter

Grey matter and white matter are crucial for your mental and physical functions. Grey matter, mainly found in the outer layer of the brain known as the cerebral cortex, is your brain's 'control centre'. This is where most of your brain's processing takes place. It's involved in functions such as muscle control, memory, emotions, decision-making, and more.

White matter, found beneath the grey matter, acts like pathways connecting different regions of the brain. These connections enable different parts of your brain to communicate and work together. This teamwork is crucial for co-ordinating complex tasks like sensory processing, controlling your body, learning, memory, and decision-making.

How physical activity supports grey matter

As you grow older, the amount of grey matter in the brain can start to decrease. This can

lead to cognitive decline, which is a gradual loss of thinking abilities such as: learning, memory, attention span and reasoning.

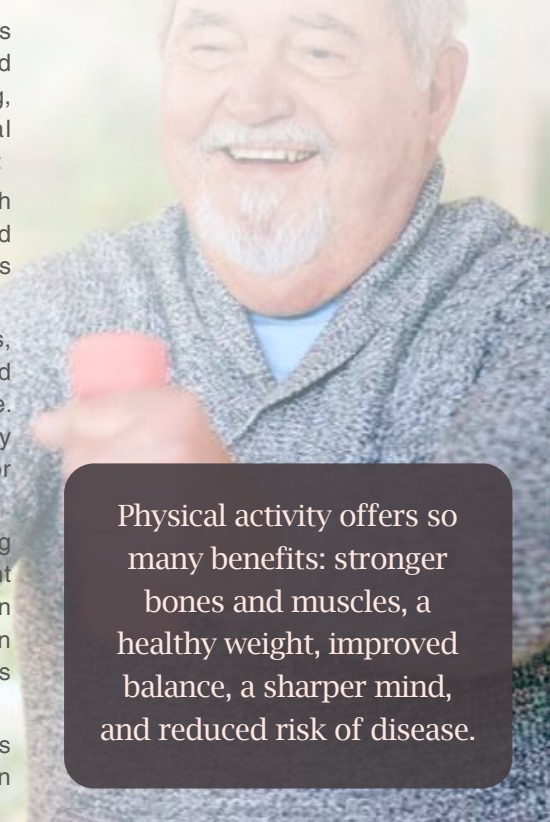
However, there's good news: regular physical activity can help protect grey matter and keep the brain functioning better.

Physical activity can be as simple as everyday activities like housework and gardening, or as structured as jogging, swimming or gym workouts. Physical activity or exercise helps your brain by:

- improving general health, which increases blood flow, oxygen and nutrients to your brain and encourages the growth of new brain cells
- increasing certain brain chemicals, promoting adaptability and potentially slowing cognitive decline. This can lead to an increase in grey matter, especially in areas crucial for memory and learning.
- reducing stress and improving mood, both of which are important for brain health. Stress has been shown to have negative effects on the brain, so anything that helps reduce stress is beneficial.

In summary, regular physical activity is crucial for maintaining a healthy brain

as we age. By protecting and potentially increasing grey matter, exercise helps keep our minds sharp. Whether it's a walk in the park, a swim, or a bike ride, staying active is a simple and enjoyable way to support brain health.



Physical activity offers so many benefits: stronger bones and muscles, a healthy weight, improved balance, a sharper mind, and reduced risk of disease.

WELCOME TO THE WORLD OF ACROSTIC PUZZLES!

In this puzzle, you'll find seven clues; as you solve each one you'll reveal a letter in the coloured square.

These letters will form a word - your task is to find the hidden word by solving all the clues. All of the answers can be found throughout the newsletter articles, but if you're stuck check the back page.

CLUES:

1. The correct term for a 'slipped disc' is disc _____.
2. What is a mineral involved in muscle and nerve function?
3. What condition occurs when the body doesn't produce enough insulin or cells become resistant to its effects?
4. What hormone helps move glucose from the bloodstream into cells?
5. What root vegetable may help reduce inflammation, aid recovery, and ease muscle tenderness?
6. Genes are _____ from your parents.
7. What term describes the way a person lives, including their habits, attitudes, and daily activities?

1																			
2																			
3																			
4																			
5																			
6																			
7																			

Hidden word hint: What term describes a state of being free from illness and in good physical and mental condition?

Answers can be found on the back page

Find natural support for tight or sore muscles

Do your muscles feel tight or tender? Muscle soreness can be uncomfortable - whether it's due to exercise, stress, or daily activities. Fortunately, nature might offer some relief – certain foods have been found to help relax tightness and ease discomfort.

The mineral magnesium is involved in muscle and nerve function, supporting the energy production required for proper muscle contraction and relaxation. Tart cherries are a good source of magnesium, as well as having powerful anti-inflammatory and antioxidant properties. Tart cherries have made headlines as an athletic aid; and may reduce loss of muscle strength, soreness, and help speed up recovery. Tart cherry juice is the best source.

Can't find tart cherries? Beetroot juice is also studied for its uses in the athletic world. It contains dietary nitrates which show potential in boosting athletic performance by increasing blood flow and oxygen to muscles. Beetroot also contains betalains, (pigments that provide its vibrant colour), which may reduce inflammation, aid recovery, and ease muscle tenderness.

If beetroot isn't to your taste, try watermelon juice. As well as antioxidants,

it contains l-citrulline, an amino acid which may help increase exercise endurance by aiding muscle function. Drinking watermelon juice before and after exercise may reduce muscle soreness. That's therapy with a delicious flavour!

Turmeric has been shown to soothe inflammation and ease pain. Its active ingredient, curcumin, may reduce the discomfort and muscle injury that can result from exercise.

Whether you exercise or not, these natural remedies may offer benefits for your muscles as well as your overall wellbeing. However it's crucial to use caution and moderation before making drastic changes to your diet - follow recommended dietary guidelines and be aware of potential side effects.

If you're considering taking supplements, consult with a healthcare professional to ensure they're safe for you, and won't interact with other medications or medical conditions. Remember, a healthy and balanced diet is generally the best approach to maintaining optimal overall health. If you'd like advice on diet and exercise, we're happy to help.



Creamy curried leek and white bean soup

Winter calls for comforting dishes that are easy to prepare. This soup combines warming curry spices with the wholesome goodness of leeks and white beans. Great for the budget too!

INGREDIENTS:

- 2 large leeks, trimmed & thinly sliced
- 2 cloves of garlic, minced
- 1 tablespoon olive oil
- 2 tsps curry powder
- 1 teaspoon ground cumin
- 2 x 400g cans of white beans, drained and rinsed
- 1 Litre vegetable or chicken stock
- Fresh coriander or parsley, for garnish (optional)

INSTRUCTIONS:

- In a large pot, heat the olive oil over medium heat.
- Add the sliced leeks and minced garlic to the pot. Cook and keep stirring for about 5 minutes.
- Stir in the curry powder and cumin, and cook for another minute or until fragrant.
- Add the stock and the drained and rinsed white beans to the pot, stir to combine.
- Bring the soup to a boil, reduce the heat to low, cover pot and simmer gently for about 15-20 minutes.
- Blend the soup until smooth. Season with salt and pepper if desired.

Garnish and serve hot with pappadums or fresh crusty bread. Enjoy!

What does a 'slipped disc' actually mean?

You've probably heard of a slipped disc. It's a common spinal injury which can cause severe pain. But what does this term really mean?

A 'slipped disc' might sound like a disc has dislodged or moved, but that's not quite accurate. To understand what really happens, a basic understanding of spinal anatomy is helpful.

Between each vertebra in your spine, there's a disc that acts like a rubbery cushion. Each disc has a soft, jelly-like core surrounded by tough cartilage. When someone mentions a 'slipped disc,' they're referring to the jelly-like center pushing through the cartilage, causing a bulge or herniation. So the correct term is 'disc herniation'—nothing actually slips.

A herniated disc can press on a nearby spinal nerve. Just as standing on a garden hose blocks the flow of water, pressure on nerve tissue changes the messages that travel along this nerve. This is why pain is not always felt at the injury site. A disc herniation in your neck may affect an arm and a disc herniation in your low back may affect a leg. You might experience burning or stinging pain, weakness or numbness in the limb involved.

In rare cases, a herniation can compress the nerves that control your bladder and bowel. If you experience incontinence, or numbness around your anal area, seek medical help urgently.

How to prevent a herniated disc

As always, prevention is best for back problems. To reduce your risk, quit smoking or never start - it harms discs as it does other tissues. If you have pre-diabetes or diabetes, manage it carefully. If you're overweight, especially with excess belly fat, work on reaching a healthier weight.

Exercise regularly, keep flexible and strengthen your core; stretching, cycling, swimming, and walking all help maintain good core strength and flexibility. It's also important to use correct posture and techniques when carrying out daily tasks, especially lifting.

Can a herniated disc be treated?

A herniated disc can sometimes heal on its own, a process known as spontaneous resorption; and treatments like rest, ice, heat, and pain relief can aid recovery. However, if you have ongoing or recurring back issues, see your doctor for an evaluation and treatment.



Understanding genes and genetic disorders

Have you ever wondered why you have certain traits, like the colour of your eyes or the shape of your nose? It's all in the genes! Let's look the fascinating world of genetics.

The basics of genetics

Genes are small sections of DNA within chromosomes in the cell nucleus. Humans typically have 46 chromosomes, which are inherited from both parents. Together, chromosomes and genes are integral to life; determining your physical features, shaping your personality and influencing your health from birth to adulthood.

Understanding genetics involves studying genes, heredity, and how traits are passed across generations. This knowledge helps predict disease risks and guide treatment.

What is a genetic disorder?

A genetic disorder arises from abnormalities in genes or chromosomes. While some disorders can be directly inherited from parents, others follow complex genetic inheritance patterns. A genetic disorder may affect how your body develops and functions, and can be evident at birth or develop later in life.

For instance, cystic fibrosis is a common genetic condition involving a malfunction in the body's fluid-producing system. As a result, thick mucus builds up in the lungs and other organs, leading to respiratory issues and infections.

Similarly, Down syndrome occurs due to the presence of an extra chromosome, causing varying degrees of intellectual disability and distinct physical traits.

Genetic disorders vs. family diseases

It's important to understand the difference between genetic disorders and diseases that run in the family. While both involve genetic factors, family diseases are often influenced by a combination of genetic and shared environmental factors. For example:

- Certain gene mutations can increase the risk of breast cancer, however not all cases stem from genetics.
- Heart disease and type 2 diabetes may have a genetic component, but they're also influenced by family history, and lifestyle choices like diet and exercise.

Implications of genetic disorders

It's your choice whether you're screened for inherited diseases. Talk to your GP about your family history and any concerns you have, they can advise you about your risk and whether you should take any action.

Genetic counselling can help individuals understand their risks and make informed decisions about their health. Additionally, support groups are available for individuals and families affected by genetic disorders.

Living with a genetic disorder can present challenges, but it doesn't define who you are. With advancements in medicine and support systems, many people lead fulfilling lives despite their conditions.

In summary, understanding genetics and genetic disorders helps us to appreciate how complex and diverse we are. By embracing our uniqueness and supporting scientific research, we pave the way for a healthier future.

Living with a genetic disorder can present challenges, but it doesn't define who you are

PRACTICE INFORMATION

GENERAL CONSULTATION POLICIES

Longer consultation times are available, so please ask our receptionists if you require some extra time

HOME VISITS

Home and other visits are available for regular patients of this practice whose condition prevents them from attending the surgery

AFTER HOURS

If you get sick at night or on the weekend, please ring 5367 3333 for advice. We look after our patients 24 hours a day, 7 days a week.

APPOINTMENTS

Please ring 5367 3333 for an appointment. Patients attending without a booking will be fitted in at the earliest available time.

Emergencies will always be seen quickly – simply notify the receptionist

PHONE CALLS

Your regular doctor may arrange to phone you under particular circumstances. Unfortunately we are not able to connect telephone calls to our doctors routinely, as the interruption caused to the patients they are seeing can be harmful. Our staff will usually be able to pass on a message to your doctor.

FEES

Fees are payable at the time of consultation by cash, cheque, Mastercard or Visa. The GPs at this practice bulk-bill pensioners, Health Care Card holders and children under 16. Veterans may sign the service voucher.

An increased fee applies on Sundays and public holidays.

From March 1st 2023 a non-attendance fee will be charged for appointments that are not cancelled with at least 2 hours notice.

SMOKING POLICY

This practice has a no smoking policy.

SERVICES AVAILABLE

- General family medicine
- Check-ups, medical examinations
- Family planning
- Cervical screening tests, pregnancy tests
- Antenatal care, obstetrics
- ECG, heart check
- Counselling
- Vaccination: children and travel
- Blood tests / pathology
- Minor surgery: stitching cuts, removing moles, skin cancers
- Liquid nitrogen (freezing) therapy for sunspots and warts
- Acupuncture
- Weight control, nutrition advice
- Treatment of fractures
- Ear wax removal

Questions to ask at your next doctor's visit

Asking questions is key to good communication with your doctor. To make the most of your visit, write down what you want to know in the area below. Bring this list to your next appointment so you remember what you wanted to ask.

DOCTOR'S NAME	DATE	TIME
1.		
2.		
3.		
NOTES:		

QUIZ ANSWERS

1. HERNIATION
2. MAGNESIUM
3. PREDIABETES
4. INSULIN
5. BEETROOT
6. INHERITED
7. LIFESTYLE

Disclaimer: The information in this newsletter is not intended to be a substitute for professional medical advice, diagnosis or treatment. Decisions relating to your health should always be made in consultation with your health care provider. Talk to your doctor first.