A GUIDE TO

GUT AND COLON HEALTH

Australian Pituitary Foundation

WHAT IS GUT AND COLON HEALTH?

You may have heard the term 'gut'. The gut is part of the gastrointestinal system which breaks down the food you eat and absorbs nutrients your body needs to work properly. The "gut "starts in the mouth and includes the stomach stomach, small intestines and large intestines (colon).

GUT MICROBIOME

Inside the gut is what's known as the 'gut microbiome'. This is a community of trillions of microorganisms or microbes (such as fungi, bacteria and viruses) that live mostly in the small and large intestines.

The microbiome is made up of microbes that are both helpful and potentially harmful. In a healthy body, helpful and harmful bacteria can live together without causing too many problems. The healthy gut microbiome is required for optimal health, for helping with nutritional support, hormonal signaling, neurotransmitter production and detoxification. Research shows that the gut microbiome can affect every organ in the body and that gut health plays an important role in overall physical and mental wellbeing.

However, sometimes the balance of the microbiome can be upset by illnesses, health conditions, poor diet or even medication. This is referred to as gut dysbiosis.

PITUITARY CONDITIONS AND GUT HEALTH

Pituitary conditions can impact gut and colon health in several ways.

Abnormal hormone levels can affect digestion and gut motility (the movement of food through the gastrointestinal system). This can lead to issues such as stomach pain, loss of appetite, nausea, vomiting, or constipation.

Changes in metabolism caused by hormonal imbalances may influence nutrient absorption and gut microbiome composition. This may contribute to weight gain, weight loss, osteoporosis, and polyp formation in the colon.

Research has also shown that people with pituitary adenomas tend to have an unbalanced and altered gut microbiome.

The gut microbiome plays a crucial role in overall health and may be particularly important for people with pituitary conditions. For example a healthy gut:

- helps regulate the communication system between the hypothalamus, pituitary gland and adrenal glands
- helps support immune function and reduces inflammation
- may influence hormone production and metabolism.

DIETARY GUIDELINES FOR GUT AND COLON HEALTH

Diet plays a key role in maintaining overall health but may be particularly important for people with a pituitary condition and any chronic medical condition. Having a problem with the pituitary gland can increase the risk of other conditions such as obesity, osteoporosis, heart disease, and type 2 diabetes.

While there are no specific diet recommendations for people with pituitary conditions, good nutrition is recommended. A healthy diet has been shown to reduce the risks of developing other health conditions associated with having a pituitary condition.

A healthy, balanced diet includes:

- a variety of vegetables and fruit
- whole grains such as brown rice and whole-grain bread
- protein such as meat, fish, eggs, dairy or plant-based proteins such as tofu, beans and legumes
- dairy products , including milk, cheese and yoghurt
- healthy fats which are found in nuts, seeds, avocados and oily fish.

You should also:

- aim to reduce processed foods that are high in sugar, fat and salt
- limit alcohol intake
- drink plenty of water.

It's important to note that dietary needs can vary significantly between individuals with pituitary conditions, depending on factors like:

- the type of pituitary condition
- whether it affects hormone production
- specific symptoms experienced (e.g. weight gain vs. weight loss).

In these cases, your doctor will be able to provide you with specific advice.

TIPS FOR GOOD GUT HEALTH

For most people, improving gut health involves healthy eating. Other ways to improve your gut health include focusing on things to promote the beneficial bacteria and avoid factors that can inhibit the good bacteria.

Promote the growth of good bacteria by:

- eating a wide variety of plant-based foods such as vegetables, fruit, beans, legumes, wholegrains, nuts and seeds
- eat foods of different colours to ensure you have the vitamins, minerals and nutrients you need
- include fermented foods such as yoghurt, kimchi, sauerkraut, kombucha, miso and sourdough
- chew your food slowly and thoroughly as this helps relax the gut and aids digestion and absorption of food
- drink plenty of water to help your body absorb nutrients and to keep things moving through your digestive system
- consider probiotic supplements — but consult with your doctor first
- manage stress as this can interfere with gut health
- exercise regularly to help promote good digestion.

Reduce factors that destroy good bacteria by:

- avoiding antibiotics unless absolutely necessary
- avoiding highly processed foods
- excessive alcohol.

Get regular exercise and movement

Regular exercise and movement are also important for gut health as they:

- improve gut motility (movement through the digestive tract)
- improve circulation and blood flow which promotes an environment for good bacteria to flourish in
- reduce the risk of inflammatory bowel disease and colon cancer.

The effects of exercise on gut health is more effective when combined with a healthy diet.

The good news is that you don't have to do large amounts of vigorous exercise to get the benefits. Aim for 30 minutes of exercise on most days. If it's been a while since you've exercised, start off slowly and build from there. You should also speak to your doctor to make sure you're exercising in a way that's safe for you.

By focusing on a healthy diet that improves gut health and getting regular exercise and movement throughout your week you can improve your overall wellbeing and may be able to reduce some symptoms and risk factors associated with a pituitary condition.

Remember, the above is a general guide only. What's best for you may depend upon your condition, so make sure you ask your doctor for specific advice.

MORE INFORMATION

The Australian Pituitary Foundation provides social support for patients and carers, and has published a range of patient resources on pituitary conditions and treatments.

For more information, please visit our website: www.pituitary.asn.au

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Acknowledgement – We are grateful to the members of the Australian Pituitary Foundation for reviewing this information.

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