Love Your Gut with: ionderie

Gut Microbiota and You

Gut microbiota, also known as gut flora, are the microorganisms that live in your digestive tract. In fact, it's made up of trillions of bacteria, fungi and other microbes that perform a variety of important functions that are essential to human health and survival.¹ A typical American diet, which often includes processed foods, high amounts of fat and low amounts of fiber, is connected to disruption in the gut microbiota and promotion of inflammation. A healthful diet including increased fiber and unsaturated fats, such as olive oil and avocado, is connected to healthy gut microbiota.2,3,4

PACs found in cranberries. cranberry juice and certain cranberry supplements have anti-adhesion effects that help gut and urinary tract microbiota.6,9

One way to ensure resilient gut microbiota is by eating a healthy, fiber-rich diet. This can help maintain healthy gut microbiota which protects the body against germs, supports immunity, inhibits production of inflammatory compounds called lipopolysaccharide (LPS), and produces healthful short-chain fatty acids (SCFA).^{4,5} SCFA provide energy to intestinal cells to strengthen the gut wall and prevent leaky gut, helping to inhibit LPS from stimulating the immune system and causing inflammation, which can lead to a variety of chronic diseases.6

The Con

CRANBERRY INSTITUTE

In fact, gut microbiota changes can be seen within days of changing the diet. What we eat shapes our gut microbiota. Choosing healthy foods results in positive changes, including increases in the number and type of gut microbiota.¹

According to the 2020-2025 **Dietary Guidelines for Americans**, more than 80% of Americans don't eat enough fruit.

The goal is to have about two cups of fruit daily, mostly as whole fruit. Meet this goal and enjoy the many health benefits of cranberries by tossing dried cranberries into pasta and salads, have a glass of cranberry juice anytime and try using fresh or frozen cranberries in cranberry salsa or smoothies.⁷





Cranberries Help Gut Microbiota

Cranberries contain fiber & other compounds that help gut microbiota grow and thrive.

Anti-Adhesion Effects of PACs in Cranberries

Significant amount of the research on proanthocyanidins (PACs) found in cranberries has focused on their anti-adhesion effects that benefit urinary tract health by helping to prevent urinary tract infections. Biofilm formation is an early step in the development of an infection, and PACs, and possibly flavonols, found in cranberries help prevent biofilm formation, which benefits gut and urinary tract microbiota.6

Dried Cranberries Help Gut Bacteria

A small study of 10 people found that sweetened dried cranberries had a positive impact on the natural bacteria in the gut.8

New Evidence About Cranberry Oligosaccharides

Prebiotics are one of the most well studied dietary factors linked to benefits for gut microbiota, and cranberries have oligosaccharides, carbohydrates found in the berries, that are thought to have prebiotic effects on both gut and urinary tract microbiota.4,9 Stay tuned for more research on this connection.

Cranberries Are Fiber-Full

Cranberries are a good source of fiber and can help amp up your fiber intake. One cup of chopped cranberries has 5 g fiber, and ¼ cup of dried, sweetened cranberries has 2 g fiber.¹⁰

Adequate Fiber Intake Guidelines

- Age 31 to 50: 38 grams per day for men and 25 grams per day for women - **Age 50 and over:** 30 grams per day for
- men and 21 grams per day for women.¹¹

Cranberries under the microscope he research continues.

Exciting new research has proposed that the dynamic effects of various cranberry compounds and their interactions with gut microbiota may result in positive change that lead to a wide range of health benefits.⁹

Cranberry Compounds Can Help Reduce H. pylori Rates of Infection

In the US, 30 million people can expect to be infected with *H. pylori*.^{14,15}

A randomized, controlled trial published in The Journal of Gastroenterology and Hepatology, a top tier international gastroenterology journal, found that a twice daily dose of 44 mg PAC in cranberry juice resulted in 20% reduction in H. pylori infection rate in Chinese adults when compared to lower amounts of juice and a placebo.

While more research is needed, a half cup serving of 100% pure cranberry juice contains 44 mg PAC, and when taken twice daily in the morning and evening, should be the same as the levels in the clinical study needed to suppress H. pylori.¹⁶

Dr. Amy Howell's Webinar on Cranberries and H. pylori Suppression

Dr. Amy Howell's Webinar on Cranberries and H. pylori Suppression

Dr. Howell is an associate research scientist at the Marucci Center for Blueberry and Cranberry Research at Rutgers Úniversity. Her work includes isolating natural products from cranberries that benefit health.

- Valdes AM, Walter J, Segal E, Spector TD. Role of the gut microbiota in nutrition and health. British Medical Journal 2018; 13;361:42179. doi: 10.1136/bmj.k2179.
 Estrada JA, Contreras I. Nutritional modulation of immune and central nervous system homeostasis: the role of det in development of neuroinflammation and neurological disease. Nutrients 2019; 11. doi:10.3390/nu11051076
 Wolters M. Ahrens J. Romani-Perez M, Watkins C, Sanz Y, et al. Dietary fatter on did Systemic Inflammation in Humans. Nutritients 2018; 11:778. doi:10.3390/nu1011783. doi:10.3390/nu101783. doi:10.3390/nu101783. doi:10.3390/nu1015065. Doi: 10.1016/j.dinu.2018.12.024
 Steware K, Kueger C, Meuti J, Shannuganayagan D, Read JD. Effect of sweetened dried crahemicans, 2020-2025. sht Edition. December 2020. Available at: https://www.diearguidelines.gov/
 Sekaizes K, Kueger C, Meuti J, Shannuganayagan D, Read JD. Effect of sweetened dried crahemicans decal amicrobine in hatthy human subjects. OMICS: A Journal of Integrative Biology 2018; 22(2):145-153. doi: 10.1089/omi.2016.0167.
 Outarion Faces FoodWorks. The Nutrition Compary. Available at: http://untrivin.Malesuse for Total Fiber by Life Stage Group. Available at: https://www.alu.usd.gov/sites/default/files/fric.uploads/energy_full_report.pdf, accessed 4/30/2021
 Leitar Stage C, Cuta M, Netore S, Deatry Reference Intakes. Table S-3. Criteria and Dietary Reference Intake Values for Total Fiber by Life Stage Group