

Comparison of nutrient content and health aspects of milk and plant-based drinks.

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Abstract

Milk has long been a staple of human diets, with its nutrient content and health benefits being recognized for generations. However, in recent years, there has been a growing trend towards plant-based alternatives to milk. These plant-based drinks claim to be healthier, more environmentally friendly, and more humane. In this article, we will compare the nutrient content and health aspects of milk and plant-based drinks.

Introduction

Milk is a rich source of nutrients, particularly protein, calcium, and vitamin D. One cup of whole milk contains around 8 grams of protein, which is essential for building and repairing tissues. Calcium is essential for strong bones and teeth, and milk provides about 30% of the recommended daily intake per cup. Vitamin D is necessary for the absorption of calcium, and milk is often fortified with this vitamin. Plant-based drinks, on the other hand, vary in their nutrient content depending on the source. Soy milk is the closest in nutrient content to milk, with a similar protein content and similar amounts of calcium and vitamin D. Almond milk, on the other hand, contains less protein and calcium, but is a good source of vitamin E. Rice milk is low in protein and calcium, but is often fortified with these nutrients. Coconut milk is high in saturated fat and calories, and is not a good source of protein or calcium.

Health Aspects

Milk has been linked to a number of health benefits, particularly in children. It is a good source of calcium and vitamin D, which are important for bone health. Studies have also shown that milk consumption may reduce the risk of type 2 diabetes, and some types of cancer, including colorectal cancer. However, some people may be lactose intolerant or have a milk allergy, which can cause digestive issues [1].

Plant-based drinks have been touted as a healthier alternative to milk, particularly for people with lactose intolerance or milk allergies. However, some plant-based drinks may be high in added sugars, which can increase the risk of obesity and other health issues. Additionally, some plant-based drinks may not be fortified with essential nutrients, which can lead to nutrient deficiencies over time. Soy milk is the most nutritionally complete plant-based milk, and is a good alternative for those who cannot consume dairy [2].

Environmental Impact

Another consideration when choosing between milk and plant-based drinks is the environmental impact. Dairy farming can have a significant impact on the environment, particularly in terms of water usage and greenhouse gas emissions. Additionally, the production of dairy products requires significant amounts of feed, fertilizer, and energy. Plant-based drinks, on the other hand, are often touted as being more environmentally friendly, particularly if they are made from sustainably sourced ingredients. However, the production of plant-based drinks can also have environmental impacts, particularly if they are made from non-sustainable ingredients or require significant amounts of energy for production and transportation.

Ultimately, the decision to consume milk or plant-based drinks depends on individual preferences, dietary requirements, and environmental considerations. Some people may prefer the taste and texture of milk, while others may prefer the taste of plant-based drinks. It is important to note that not all plant-based drinks are created equal, and some may be higher in sugar or lower in nutrients than others [3].

For those who choose to consume dairy products, it is important to choose low-fat or fat-free options to reduce the intake of saturated fats, which can increase the risk of heart disease. Additionally, it is important to consume dairy products in moderation, as excessive consumption can lead to weight gain and other health issues [4].

For those who choose to consume plant-based drinks, it is important to choose options that are fortified with essential nutrients, such as calcium and vitamin D. Additionally, it is important to choose options that are low in added sugars, as excessive sugar consumption can increase the risk of obesity and other health issues. Milk and plant-based drinks each have their own unique nutrient content, health aspects, and environmental impacts. The decision to consume one

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over the other depends on individual preferences, dietary requirements, and environmental considerations. Ultimately, the key to a healthy diet is to consume a variety of nutrient-dense foods, including dairy products and plant-based drinks, in moderation [5].

Conclusion

In conclusion, milk and plant-based drinks have different nutrient contents and health aspects, as well as varying environmental impacts. Milk is a good source of protein, calcium, and vitamin D, and has been linked to a number of health benefits. However, some people may be lactose intolerant or have a milk allergy, which can limit their consumption of dairy products. Plant-based drinks vary in nutrient content depending on the source, but may be a good alternative for those who cannot consume dairy. Soy milk is the most nutritionally complete plant-based milk, and is a good alternative for those who cannot consume dairy. When choosing between milk and plant-based drinks, it is important to consider the nutrient content, health aspects, and environmental impact, as well as personal taste and preference.

References

1. Wolf CA, Malone T, McFadden BR. Beverage milk consumption patterns in the United States: Who is substituting from dairy to plant-based beverages?. *J Dairy Sci.* 2020;103(12):11209-17.
2. Smith NW, Fletcher AJ, Hill JP, et al. Modeling the contribution of milk to global nutrition. *Front Nutr.* 2022;8:1287.
3. Zhang X, Chen X, Xu Y, et al. Milk consumption and multiple health outcomes: Umbrella review of systematic reviews and meta-analyses in humans. *Nutr Metab.* 2021;18(1):1-8.
4. Paul AA, Kumar S, Kumar V, et al. Milk Analog: Plant based alternatives to conventional milk, production, potential and health concerns. *Crit Rev Food Sci Nutr.* 2020;60(18):3005-23.
5. Eslami O, Shidfar F. Soy milk: A functional beverage with hypocholesterolemic effects? A systematic review of randomized controlled trials. *Complement Ther Med.* 2019;42:82-8.