

Buckwheat for Fasting: A Nutritious and Versatile Choice

Sardar N.R.^{1*}, Modi R.B.², Patel A.M.³

¹Assistant Professor, Anand Agricultural University Anand.

²Associate Professor, Anand Agricultural University Anand.

³Assistant Professor, Anand Agricultural University Anand.

*Corresponding Author: nileshrsardar@aau.in

1. Introduction

In India, fasting is a significant cultural and religious act. During fasting periods like Navratri, Janmashtami and Ekadashi and shraavan month, people often choose foods that are traditionally eaten and avoid cereals such as wheat and rice. These foods should be avoided during fast days. Buckwheat, also known as kuttu in India, has become a highly valued food category. Buckwheat, despite its name "witness", is not a cereal grain and is technically wheat. It's a pseudocereal, meaning its seeds are used in manners similar to those of cereal grains. When fasting, buckwheat is highly beneficial as it can be transformed into flour to create traditional dishes like rotis, puri (puffed rice), pancakes, and cheelas. Its energy supply includes carbohydrates, protein, dietary fiber, minerals, and various bioactive compounds. Additionally, it provides fuel to the body. Due to its natural gluten-free status, it is an appealing food ingredient for those who avoid gluten. Besides its traditional value, buckwheat's positive nutritional profile and potential health benefits have led to an increased interest in modern nutritional science. Buckwheat serves as a prime illustration of how fasting foods with diverse nutritional properties can enhance overall health.

1.1 Buckwheat: A Pseudocereal for Fasting

Buckwheat is classified as a polygonace and goes by the scientific name *Fagopyrum (Grottonium fuscum)*. Wheat, rice and maize among other traditional cereals are not the same as this. Milling of buckwheat seeds in triangular shapes is used to make flour, which is commonly called kuttu atta in India. During fasting, buckwheat flour is often used in place of wheat flour. It can be utilized in conjunction with potatoes, vegetables and curd or any other permitted ingredients for cooking purposes. During fasting seasons, kuttu roti and khutta puri are highly sought after. Buckwheat has been found to be a suitable food choice during fasting, both in terms of energy and nutrition, as well as for the purpose of maintaining dietary restrictions on traditional cereals. It has the potential to enhance the nutritional balance and diversity of fasting diets.

1.2 Nutritional significance of Buckwheat

Buckwheat is considered a nutrient-dense pseudocereal. Its composition varies according to variety, growing conditions and processing method, but it generally provides a useful combination of carbohydrates, protein, fibre, minerals and phytochemicals.

1.2.1 Carbohydrates and Energy

Carbohydrates are an important source of energy during fasting. Buckwheat contains substantial amounts of

complex carbohydrates and can therefore provide sustained energy. When consumed as part of a balanced meal, buckwheat may help reduce excessive dependence on refined or highly processed fasting foods.

1.2.2 Protein

Buckwheat contains a relatively good-quality protein compared with many other plant foods. It provides several essential amino acids and is especially valued for its amino-acid composition. Although buckwheat alone may not meet all protein requirements, combining it with other foods such as milk, curd, nuts, seeds or legumes where permitted can improve the overall nutritional quality of the diet.

1.2.3 Dietary Fibre

Buckwheat is a useful source of dietary fibre. Fibre contributes to digestive health and may help increase satiety. During fasting, when food choices may be limited and meals can sometimes become dominated by fried foods, including fibre-rich buckwheat can contribute to a more balanced diet.

1.2.4 Minerals

Buckwheat contains minerals such as magnesium, phosphorus, manganese, copper and iron. These minerals participate in numerous physiological functions, including energy metabolism, bone health and normal cellular activity.

1.2.4 Bioactive Compounds

One of the most interesting characteristics of buckwheat is its content of bioactive compounds, particularly rutin and other phenolic compounds. These substances have antioxidant properties and are being studied for their potential contribution to human health.

Gluten-Free

Buckwheat is naturally gluten-free because it is not a wheat species. This characteristic makes it useful for people who need to avoid gluten. However, commercially processed buckwheat flour can sometimes come into contact with wheat or other gluten-containing grains during milling, transportation or storage. Therefore, people with medically diagnosed gluten-related disorders should select appropriately certified gluten-free products. For the general fasting population, the gluten-free nature of buckwheat is an additional nutritional advantage, although gluten avoidance is not necessary for everyone.

Health Potential of Buckwheat

Due to its nutrient and phytochemical composition, buckwheat has become a scientifically interesting food and is regularly added to dietary guidelines. The high levels of fiber and complex carbohydrates in it can aid in maintaining a

healthy eating regimen. Buckwheat is an interesting functional food ingredient, as it contains phenolic compounds including rutin. The latter is also useful in cooking. Refraining from refined fast foods may be advantageous when substituting for buckwheat. Why? Buckwheat roti, vegetables, and curd may offer more nutrients than fried snacks. Buckwheat should not be categorized as a miracle food, as its health benefits are dependent on one's overall diet, portion size, cooking technique, and nutritional requirements.

Different Products of Buckwheat for Fasting

Kuttu roti: Buckwheat flour is mixed with water and sometimes boiled potatoes or other fasting-approved ingredients to make dough. The dough is shaped and cooked on a hot surface.

Kuttu puri: Small portions of buckwheat dough are rolled and deep-fried. Although popular, puris should be consumed moderately because deep frying substantially increases energy and fat content.

Kuttu cheela: Buckwheat flour can be mixed with water and suitable vegetables or spices to prepare a savoury pancake-like dish.

Buckwheat dosa or pancakes: Buckwheat batter can be used to prepare thin pancakes or dosa-style preparations, depending on the ingredients and fasting practices being followed. The choice of ingredients should always be adapted to the specific fasting tradition because dietary rules vary between regions, communities and individuals.

Buckwheat Processing

Buckwheat presents several value addition prospects in the food-processing industry. After cleaning, grinding and dehulling the seeds into flour, they can be refined. Many old and new products can be made using buckwheat flour. Depending on processing, buckwheat can have distinct nutritional and functional values. Certain compounds may be affected in terms of lability, texture, storage stability and availability due to milling, roasting or other methods. Packaging is crucial as flour can spoil during storage if it is exposed to moisture, oxygen or unsuitable temperatures.

Limitations

1. Buckwheat is an excellent source of nutrition; there's no need to indulge. There are cases where individuals may experience allergic reactions to buckwheat, but this is uncommon. Anyone who experiences any signs of illness after eating buckwheat should seek medical advice.

2. Buckwheat puris or other deep-fried dishes can contain more fat and calories than boiled, steamed or pan-cooked dishes. Therefore, the nutritional value of raw ingredients should not be mistaken for the same nutritional quality found in all foods made from raw materials. Individuals with specific health issues or dietary limitations should receive personalized guidance on consuming certain foods, rather

than believing that all fasting foods are automatically appropriate.



Conclusion

In Indian fasting, buckwheat (or kuttu) holds significant importance as a valuable source of nutrients and is also regarded as an important pseudocereal. This product, which is naturally gluten-free and contains carbohydrates as well as plant protein (as dietary fiber or magnesium), minerals and bioactive compounds. The versatility of this food makes it suitable for making rotis, puris and cheelas, pancakes or any other dishes. The increasing fascination with buckwheat indicates how conventional foods can be linked to contemporary concepts of nutrition, practical food, and sustainable food production. A varied diet, including buckwheat and other foods with high nutritional content, is the most beneficial during fasting for better health. Cooking methods that are less heavily influenced by deep frying and more moderate in size should be preferred. Buckwheat can be used as a non-fasting substitute for wheat. A versatile traditional food with significant nutritional and food-processing potential. By utilizing and evolving it into novel food items, we can safeguard culinary traditions while simultaneously meeting the nutritional demands of contemporary consumers.

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