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Meat Craze of The People of North East Regions

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The intricate cultural and ethnic mosaic of the North Eastern Region of India is decorated by the 145 tribal communities, over 220 ethnic groups speaking on an average 220 languages and an equal number of dialects. The culinary practices vary across the region. About 95% of the indigenous people of the NER of India are meat eaters. The preferential choice of meat over milk may be due to the prevalence of anaemia amongst the ethnic population. The roots of the North Eastern Region fall in the laps of the Mongoloids. Mongoloids are prone to low ferritin content which is due to progressive iron deficiency leading to reduced delivery of iron to functional sites and hence depletion in iron dependent functions like erythropoiesis. In the human body, iron mainly exists in complex forms bound to protein (hemoprotein) heme compounds as (hemoglobin or myoglobin), heme enzymes, or nonheme compounds (flavin-iron enzymes, transferring, and ferritin). The body requires iron for the synthesis of its oxygen transport in particular hemoglobin and proteins, myoglobin, and for the formation of heme enzymes and other iron- containing enzymes involved in electron transfer and oxidationreductions. Almost two- thirds of the body iron is found in the haemoglobin present in circulating erythrocytes, 25% is contained in a readily mobilizable iron store, and the remaining 15% is bound to myoglobin in muscle tissue and in a variety of enzymes involved in the oxidative metabolism and many other cell functions. Consumption of meat facilitates absorption of iron both from organic and inorganic sources by up to 33% as compared to 8-11% for vegans.

According to the National Academy of Sciences of the United States (2001), vegetarians have 1.8 times higher requirement for iron compared to nonvegetarians. Iron status among vegetarians is likely a result of consumption of non-heme iron which has lower bioavailability in comparison to heme iron. The main underlying reason is the presence of phytate which is the principal iron absorption inhibitor found in grains, especially whole grains, legumes, and nuts. Oxalates found in some green leafy vegetables are also the potent inhibitor of iron absorption in addition to the polyphenols, particularly

the tannins found in many cereals, vegetables and some beverages like tea, coffee etc. Accordingly, the WHO has suggested limiting drinking of these beverages 1 to 2 hours after a meal.

Problems like malnutrition, hidden hunger etc. are mainly faced by the lowerincome society. Many studies have shown that anaemia is more prevalent in the socioeconomically disadvantaged population. In developing countries, the risk of anaemia amongst the low-income groups is a major concern for the health authorities. Prevalence of anaemia is directly linked to Human Development Index; countries with low HDI may require a comprehensive long-drawn plan of action to mitigate the ill effects of anaemia. Raising the level of a mother's education has a positive impact on anaemia management. The economically underprivileged populations of the NER eat the meat of unconventional animals like dogs, cats, rodents and reptiles too. The mongoloid Buddhists of Arunachal Pradesh and Bhutan also eat meat by following the principles of *Tsethar* and *Makhep* – that is slaughtering the animal elsewhere and not disclosing the identity of the butcher.

Absorption of iron can be enhanced when a significant source of vitamin C and/or other organic acids is added to a meal – and hence the fondness of the people of Assam and other parts of the NER for the sour fish curry (Masor Tenga). Food preparation techniques like fermentation and germination reduce the phytic acid content of the grains which leads to enhanced bioavailability of non-heme iron. That's why northeast people have adapted and perfected the techniques of fermentation. Fermented food like Akhuni (fermented soybean), Khoricha (fermented bamboo shoot), Ngari or Shidal (fermented fish) are some of the items relished by the people of the NER. Due to the consumption of meat from animals and birds unconventional and the consumption of these fermented foods items which indeed have a very obnoxious smell in their precooked state, the people of mainland India even look down upon the people of the NER. For their culinary habits, the people of the NER also suffer from racial discrimination in their own country! Sometimes it becomes difficult for them to get rented accommodation in cities like Delhi and Mumbai because of their stinky foods which in the has been shown up Nicholas Kharkongor-directed Bollywood movie 'Axone: A Recipe for Disaster (2020).

The people of the NER prefer meat over milk. Milk no doubt is a complete food good and a very good source of vitamins B_2 , B_{12} , and D; calcium, potassium, and phosphorus, and traces of zinc, magnesium, vitamins B_6 , B_1 , and A, but it is devoid of natural iron. The people of the NER suffer from the to digest milk sugar 'lactose' which is

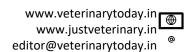
associated with the biological adaptation gene mutation, called 13910T which originated in Europe some 7500 years ago. Amongst the people of western and northern India who can digest milk into adulthood, the gene frequency is over 40%, whereas amongst the northeasterners it is less than 1%. In India, lactose intolerance ranges between 60 and 65%.

The ill effects of severe iron deficiency amongst the aboriginals of the NER have been reported to result in a high rate of infant mortality, malnutrition, dwarf growth limiting their employment in the country's deference services, and lower IQ levels. The Ministry of Food Processing Industries, Govt. of India has estimated the loss arising out of the anaemia of the people of the NER to the GDP of the country at over Rs. 500 crores annually (2005). The culinary practices of the people of the NER have ingrained meat consumption, consumption of fermented foodstuffs, banana stems and flower etc. by following their ancestral teachings to mitigate the iron deficiency syndromes. The people of the region are aware of the nutritional significance of iron in their diets since the time of yore and probably therefore foods are generally cooked in iron vessels so that traces of the iron leaching out to the food could contribute to iron supplementation.

The policies of the Government of India to fortify staple foods such as wheat and other cereal products with iron would have an improved effect if regular provision of meat is ensured in the mid-day meal scheme for the kids of the NER. The planner and executors of the country may delve into strategies to grow more food animals and birds in the region to harvest the twin benefits of ensuring nutrition and managing the ill effects of iron deficiency which will contribute to the overall health and performance of the people of the NER to aid in the HDI status of the nation. The people of mainland India may appreciate that the people of the NER eat meat even from unconventional sources, the 'foul smelling' fermented cereals, fish, and bamboo shoots etc. as an instinct for their racial survival only and therefore respect their food habits.

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