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Goats' milk healthier than cows' milk

Medical Research News

Published: Wednesday, 1-Aug-2007

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Research carried out at the Department of Physiology of the **University of Granada** has revealed that goats milk has more beneficial properties to health than cows milk.

Among these properties it helps to prevent ferroperenic anaemia (iron deficiency) and bone demineralisation (softening of the bones).

This project, conducted by Doctor Javier D'az Castro and directed by professors Margarita snchez Campos, M' Inmaculada L'pez Aliaga and M' Jos Mu'oz Alfrez, focuses on the comparison between the nutritional properties of goats milk and cows milk, both with normal calcium content and calcium enriched, against the bioavailability of iron, calcium, phosphorus and magnesium. To carry out this study, the metabolic balance technique has been used both in rats with experimentally induced nutritional ferroperenic anaemia and in a control group of rats.

In order to know how the nutritive utilisation of these minerals may affect their metabolic distribution and destination, the UGR researcher has determined the concentration of these minerals in the different organs involved in their homeostatic regulation and different haematological parameters in relation to the metabolism of the minerals.

Better results with goats milk

Results obtained in the study reveal that ferroperenic anaemia and bone demineralisation caused by this pathology have a better recovery with goats milk. Due to the higher bioavailability of iron, calcium, phosphorus and magnesium, the restoration of altered haematological parameters and the better levels of parathyroid hormone (PTH), a hormone that regulates the calcium balance in the organism was found in the rats that consumed this food.

Javier D'az Castro points out that the inclusion of goats milk with normal or double calcium content in the diet ,favours digestive and metabolic utilisation of iron, calcium and phosphorus and their deposit in target organs - parts of the organism to which these minerals are preferably sent - involved in their homeostatic regulation".

According to this researcher, all these conclusions reveal that regular consumption of goats milk , a natural food with highly beneficial nutritional characteristics - ,has positive effects on mineral metabolism, recovery from ferroperenic anaemia and bone mineralisation in rats. In addition, and unlike observations in cows milk, its calcium enrichment does not interfere in the bioavailability of the minerals studied".

Although there is no doubt that these findings may be a base for further in depth study of the multiple health benefits of goats milk, the UGR [<http://www.ugr.es>] researcher warns that ,studies in humans are still required in order to confirm the findings obtained in rats and to promote goats milk consumption both in the general population and in the population affected by nutritional ferroperenic anaemia and pathologies related to bone demineralisation". Part of the results of this research has been published in the prestigious scientific journals *International Dairy Journal* and *Journal Dairy Science* .

<http://www.ugr.es>

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