

Fish the primary source of nutrition in medieval Northern Ostrobothnia

March 19 2018



Piece of bone from medieval cemetery in Northern Finland. Credit: Maria Lahtinen



Researchers have investigated the diet of people buried in the Ii Hamina cemetery from the 15th to the 17th centuries by analysing isotopes in the bones of the deceased. Isotopes preserve information on the various nutrient sources used by humans during their lifetimes. A study published in the *Environmental Archaeology* journal reveals that the dominant protein source was small fish such as roach or Baltic herring.

The medieval cemetery of Ii Hamina is located next to the centre of the Ii municipality. Through investigations conducted at the cemetery, researches gained significant knowledge on past human generations in Northern Ostrobothnia and in Finland in general.

The study of the <u>diet</u> of medieval Ii residents indicated a very large share of fish-based <u>food</u>. Of all protein consumed, as much as 70 percent may have been fish. On the one hand, this is evidence of the importance of waterways; on the other hand, it indirectly indicates the insignificance of farming and dairying in the region.

Sufficient but unbalanced nutrition

A previous study revealed that medieval residents of Ii had no significant trouble finding food. "This new study confirms the notion that the diet in Ii was very likely sufficient," says researcher Maria Lahtinen from the Finnish Museum of Natural History Luomus, part of the University of Helsinki.







Location of the Ii Hamina in Finland. Credit: Maria Lahtinen

The recently published study indicates that the fish consumed by the residents of Ii was probably from the middle of the food web: roach, Baltic herring or other species feeding on benthic and other invertebrates. Species-specific findings cannot, however, be gained through isotope analysis, so the species mentioned are based on guesswork. Seal hunting, on the other hand, most likely did not play a significant role in medieval Ii, the study finds.

In prior studies, the dental health of the deceased was also investigated, revealing a very protein-rich diet compared to today. On average, the population at that time was also shorter. These factors are evidence of an unbalanced diet. Another finding in the new study was an individual whose bone isotope consistency differed from others. The diet of this individual was much closer to living habits based primarily on farmed food. The bones of 98 buried individuals were analysed in the study, which makes it very likely that this individual was originally from elsewhere, or in some way enjoyed a special status in the community.

More information: Maria Lahtinen et al, Mixed Livelihood Society in Iin Hamina – a Case Study of Medieval Diet in the Northern Ostrobothnia, Finland, *Environmental Archaeology* (2018). DOI: 10.1080/14614103.2018.1444695

Provided by University of Helsinki



Citation: Fish the primary source of nutrition in medieval Northern Ostrobothnia (2018, March 19) retrieved 25 April 2024 from https://phys.org/news/2018-03-fish-primary-source-nutrition-medieval.html

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.