

Dietary counselling introduced in infancy leads to better cardiovascular health in adults

April 23 2020



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The Special Turku Coronary Risk Factor Intervention Project (STRIP) of the University of Turku, Finland, examines the benefits of promoting cardiovascular health by dietary counselling from infancy to early

adulthood. Altogether 1,116 children and their families from Turku participated in the study starting when the children were 7 months of age.

Half of the children were randomly assigned to a group that received dietary counselling promoting a heart-healthy [diet](#) according to the nutritional recommendations. The other half were assigned to the [control group](#) who received only the basic health education given at Finnish maternity and child health clinics and school health care. The regular counselling that started in infancy ended when the participants turned 20.

"The research shows that regular dietary counselling starting in infancy has a [positive impact](#) on the quality of fat in the diet, as well as on the serum cholesterol level, [insulin sensitivity](#), and blood pressure. In addition, the clustering of adverse [cardiovascular health](#) markers is less common in the group that participated in the dietary counselling than in the control group," says Assistant Professor and vice principal investigator Katja Pahkala from the University of Turku.

After the dietary counselling aiming at better cardiovascular health ended, the participants were invited to a follow-up study at the age of 26. In 2015-2018, 551 people participated in the follow-up.

"The aim of the study was to investigate whether the persons who participated in the dietary counselling continued to have a more heart-healthy diet and a lower serum cholesterol level than the control group," says Pahkala.

Better cardiovascular health due to counselling

The first results of the follow-up study have now been published demonstrating that the diets of the people in the intervention group continue to be more heart-healthy. In addition, sustained [beneficial](#)

[effects](#) are seen in the serum total and LDL [serum](#) cholesterol levels, which are still lower in the intervention than in the control group.

Furthermore, the insulin sensitivity of the persons who participated in the counselling group was also better than in the control group.

"As a whole, the results support the idea that counselling on a heart-healthy diet starting in childhood has a positive impact on cardiovascular health, which is sustained after discontinuation of the active counselling," concludes Pahkala.

More information: Katja Pahkala et al, Effects of 20-year infancy-onset dietary counselling on cardiometabolic risk factors in the Special Turku Coronary Risk Factor Intervention Project (STRIP): 6-year post-intervention follow-up, *The Lancet Child & Adolescent Health* (2020).

[DOI: 10.1016/S2352-4642\(20\)30059-6](https://doi.org/10.1016/S2352-4642(20)30059-6)

Provided by University of Turku

Citation: Dietary counselling introduced in infancy leads to better cardiovascular health in adults (2020, April 23) retrieved 7 May 2024 from <https://medicalxpress.com/news/2020-04-dietary-infancy-cardiovascular-health-adults.html>

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