

Healthy eating linked to kids' happiness

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Healthy eating is associated with better self-esteem and fewer emotional and peer problems, such as having fewer friends or being picked on or bullied, in children regardless of body weight, according to a study published in the open access journal *BMC Public Health*. Inversely, better self-esteem is associated with better adherence to healthy eating

guidelines, according to researchers from The Sahlgrenska Academy, University of Gothenburg, Sweden.

Dr Louise Arvidsson, the corresponding author said: "We found that in young children aged two to nine years there is an association between adherence to healthy dietary guidelines and better psychological well-being, which includes fewer emotional problems, better relationships with other children and higher self-esteem, two years later. Our findings suggest that a healthy diet can improve well-being in children."

Examining 7,675 children two to nine years of age from eight European countries - Belgium, Cyprus, Estonia, Germany, Hungary, Italy, Spain and Sweden - the researchers found that a higher Healthy Dietary Adherence Score (HDAS) at the beginning of the study period was associated with better self-esteem and fewer emotional and peer problems two years later.

The HDAS aims to capture adherence to healthy dietary guidelines, which include limiting intake of refined sugars, reducing fat intake and eating fruit and vegetables. A higher HDAS indicates better adherence to the guidelines - i.e. healthier eating. The guidelines are common to the eight countries included in this study.

The authors found that better self-esteem at the beginning of the study period was associated with a higher HDAS two years later and that the associations between HDAS and wellbeing were similar for children who had normal weight and children who were overweight.

Dr Arvidsson said: "It was somewhat surprising to find that the association between baseline diet and better well-being two years later was independent of children's socioeconomic position and their [body weight](#)."

The authors used data from the Identification and Prevention of Dietary- and Lifestyle-Induced Health Effects in Children and Infants Study, a prospective cohort study that aims to understand how to prevent overweight in children while also considering the multiple factors that contribute to it.

At the beginning of the study period parents were asked to report how often per week their children consumed food from a list of 43 items. Depending on their consumption of these foods, children were then assigned an HDAS score. Psychosocial wellbeing was assessed based on self-esteem, parent relations, emotional and peer problems as reported by the parents in response to validated questionnaires. Height and weight of the children were measured. All questionnaires and measurements were repeated two years later.

The study is the first to analyze the individual components included in the HDAS and their associations with children's wellbeing. The authors found that fish intake according to guidelines (2-3 times per week) was associated with better self-esteem and no emotional and peer problems. Intake of whole meal products were associated with no peer problems.

The associations were found to go in both directions; better wellbeing was associated with consumption of fruit and vegetables, sugar and fat in accordance with dietary guidelines, better [self-esteem](#) was associated with sugar intake according to guidelines, good parent relations were associated with fruit and vegetable consumption according to guidelines, fewer emotional problems were associated with [fat intake](#) according to guidelines and fewer peer [problems](#) were associated with consumption of fruit and vegetables according to guidelines.

The authors caution that children with poor diet and poor wellbeing were more likely to drop out of the study and were therefore underrepresented at the two-year follow-up, which complicates conclusions about the true

rates of poor diet and poor wellbeing. As the study is observational and relies on self-reported data from parents, no conclusions about cause and effect are possible.

Dr Arvidsson said: "The associations we identified here need to be confirmed in experimental studies including [children](#) with clinical diagnosis of depression, anxiety or other behavioral disorders rather than well-being as reported by parents."

More information: Bidirectional associations between psychosocial well-being and adherence to healthy dietary guidelines in European children: prospective findings from the IDEFICS study, *BMC Public Health* (2017). [DOI: 10.1186/s12889-017-4920-5](https://doi.org/10.1186/s12889-017-4920-5)

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