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Changes in consumption of milk in Irish children (5–12 years): preliminary analysis from the National Children's Food Survey II

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Introduction: Milk is widely recognised as a nutrient dense food, supporting the growth and development of children. Nevertheless some milk types such as whole milk can consist of high levels of saturated fat, which is recognised for its association with chronic disease risk in adults when intakes are elevated. In Ireland, current dietary guidelines recommend that children from two years onwards should consume low fat milk. Previous research has shown low levels of compliance with this guideline. Therefore the aim of this study is to review the current consumption of milk and non-dairy milk-based alternatives among Irish children and compare these with previous intakes.

Materials and methods: Analyses are based on data from the nationally representative National Children's Food Survey (NCFS, 2003-2004) and the National Children's Food Survey II (NCFSII 2017-2018) (www.iuna.net). The NCFS and NCFS II collected detailed food and beverage intake data from 7-d and 4-d weighed food diaries respectively, of Irish children aged 5-12 years (NCFS, n594; NCFS II, n600). Dietary intakes were analysed using WISP[©] in NCFS and Nutritics V5.02 (Nutritics, Dublin, Ireland) in NCFS II. Milk intakes were categorised into three food groups; 'Whole milk', 'reduced fat milk', and 'non-dairy milk alternatives'. Mean daily intakes (MDIs) were calculated for the total population and consumers only using SPSS[©] V24.0.

Results: Dietary intakes of 'whole milk' decreased over time from 232 ± 186g/d to current intakes of 131 ± 154g/d. In contrast, increases were noted in 'reduced fat milks' $(26 \pm 86g/d \text{ to } 52 \pm 110g/d)$ and 'non-dairy alternatives' $(0.2 \pm 4g/d \text{ to } 3 \pm 19g/d)$. A total of 68% of children were classified as consumers of whole milk $(193 \pm 151 \text{g/d})$ compared to 90% $(257 \pm 178 \text{g/d})$ previously. 'Reduced fat milk' consumers increased from 17% to 31% and 'non-dairy alternatives' consumers also increased from < 1% to 3%.

Conclusion: Our preliminary results indicate that the number of Irish children consuming whole milk have decreased over the last number of years. In contrast consumers of 'reduced fat milks' have significantly increased, indicating potential improvement to healthy eating guidelines adherence. Further analysis to examine current intakes and sources of saturated fat is warranted to establish additional changes in dietary patterns and compliance with recommendations within this age group.

Conflict of Interest

There is no conflict of interest

