YOGURT & CHILDREN 2017

Yogurt: a valuable tool for improving children's health

"Frequent yogurt consumption may contribute to improved diet quality and a healthier insulin profile in children." Zhu Y et al 2015!

"In the HELENA study of adolescents in Europe, an inverse association was observed between consumption of yogurt and of milk- and yogurt-based beverages and some cardiovascular disease (CVD) risk factors, especially total and abdominal excess body fat." *Moreno LA et al 2015*²

"Encouraging teenagers to increase their consumption of yogurt could help meet recommended intakes for several micronutrients particularly calcium and iodine, which are in short supply in many adolescent diets." *Williams EB et al 2015*³

Yogurt is a marker of a healthy diet

Yogurt is a high-nutrient and low-energy food. There is evidence that children and adolescents who eat yogurt regularly (at least once a week) have a healthier diet than infrequent yogurt consumers:

- Overall, yogurt consumers have a higher Healthy Eating Index score (50.56 vs 48.52).¹
- In NHANES^a, the children who were frequent yogurt consumers ate 23% more fruit and 29.6% more whole grains than the infrequent yogurt consumers.¹
- Yogurt consumers (aged 8-18 years) have higher intakes of calcium, vitamin D, and potassium than non-yogurt consumers.⁴ Yogurt is also a dietary source for children of vitamin B₁₂, riboflavin, iodine, and phosphorus.³
- Unlike general dairy consumption, yogurt is associated with lower saturated fat intake (10.9% of daily energy intake among yogurt consumers vs 11.7% in non-yogurt consumers).⁴
- Adding an extra pot (125 g) of low-fat fruit yogurt per day can make up for nutrient shortfalls in the adolescent diet, increasing mean intakes from below to above RNI of calcium, zinc (both genders), and iodine (older girls).³

Yogurt makes only a small contribution to children's sugar intakes

Sweetened foods are often preferred by children who are more likely to eat them as a result. Concerns that sweetened dairy foods are contributing to exceeding sugar intakes are apparently a misconception:

- In US children, consuming sweetened dairy products increases the number of dairy servings consumed by 6-17 year-olds and has a positive impact on their diet quality, whereas sugary drinks and sweets have a negative impact.⁵⁶
- While more than 50% of total sugars and 66% of added sugars or NMES^b in children's diets come from sweet products (cakes, sweets, etc.) and drinks, yogurt accounts for only 1–8% of total sugars and 4–9% of added or NME sugar.⁷
- Increased consumption of low sugar dairy foods, especially yogurt, at snack times could increase intake of important micronutrients without contributing to dietary excesses.⁸

Yogurt may have important benefits for children's health, including reducing obesity and cardiovascular risk

Dairy consumption is associated with a lower risk of childhood overweight/obesity.⁹ A 3-year follow up of children and adolescents found that with each 1 serving/day increment in dairy consumption, body fat fell by 0.65%, and the risk of overweight/obesity was 13% lower.⁹ Similar results are being found more specifically with yogurt consumption:

- In NHANES, children aged 8-18 years who ate yogurt were slimmer (adjusted mean waist circumference among yogurteaters was 74.5 cm vs 77 cm in non-consumers), had a lower BMI (21.3 kg/m² vs 22 mg/m²) and less body fat (subscapular skinfold 11.3 cm vs 12.9 cm) than those who did not.⁴
- Similarly, the HELENA^c study of European adolescents found an inverse association between consumption of yogurt and some CVD risk factors, especially total and abdominal excess body fat.²
- Furthermore, frequent yogurt consumption (more than once a week) is associated with an **improved insulin profile** in children and teenagers: a lower fasting insulin level, lower insulin resistance, and higher insulin sensitivity.¹
- Yogurt consumption also **protects against tooth erosion** in children and adolescents, whereas carbonated drinks, fruit juices and sweets increase tooth erosion.¹⁰

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aNHANES = National Health and Nutrition Examination Survey; bNMES = non-milk extrinsic sugars; cHELENA = Healthy Lifestyle in Europe by Nutrition in Adolescence

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