

## Offering children a wide variety and large quantities of snack food encourages them to eat more

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A new study has found that offering children a wide variety and large quantities of snack food encourages them to eat more—and this practice



may be contributing to Australia's weight problem.

The research, led by the Murdoch Children's Research Institute and published in the latest *International Journal of Obesity*, also found that how snacks are presented (in a large or small container) has little influence on how much children snack.

Lead researcher Dr. Jessica Kerr said their study found children weren't greatly affected by container size, with <u>food consumption</u> mainly driven by the quantity/variety of snacks on offer.

"There has been a popular push by nutritionists and public health officials towards replacing large dishware with smaller versions to nudge people towards healthier decisions," she said. "But we have found dishware size has very little effect on the amount of <u>food</u> consumed."

Dr. Kerr said while the overconsumption of snack foods is an important contributor to obesity, most people do not recognise the impact it has on their calorie intake.

"Children and adults should only consume energy-dense snacks occasionally—they do not need to be part of daily energy intake," she said. "But the reality is that Australians typically get around 30-40 percent of their energy intake from snack foods."

Dr. Kerr said three times as many children in Australia are now overweight or obese compared to 30 years ago.

"About 20 per cent (1 in 5) of children are overweight or obese," she said. "There are many complications of children being overweight such as type 2 diabetes, orthopaedic and respiratory disorders, liver problems and sleep apnoea."



Dr. Kerr said until now studies into snacking behavior were limited by self-reported data or small sample sizes.

"Past dietary studies have mostly focused on main meals," Dr. Kerr said. "It is important to determine on a larger scale how dishware size and the quantity, variety, and energy density of snacks affect both child and adult snacking behavior when apart from each other outside of the family environment," she said.

For the study, participants ate during a 15-minute snack break between 20 other health assessments at the Child Health CheckPoint, which looked at the health of 1800 children, aged 11-12 years, and their parents across a variety of factors from physical activity to sleep.

The children and parents were given a snack box containing nonperishable items such as crackers, cheese, a muesli bar, biscuits, a tub of peaches and chocolate.

The quantity/number and variety of snack food items and the container sizes that the food was presented in varied. Children and parents ate separately and at different times.

Researchers recorded how much food each child and parent left in the box uneaten, and calculated the total grams and kilojoules consumed.

"Children who were offered more snack items consumed considerably more energy and a slightly higher food mass. Manipulating box/container size had little effect on consumption," she said.

The impact on adults was little, however Dr. Kerr said adults were more aware that they were being observed and this may have impacted their eating behaviour.



Dr. Kerr said further research should be done with parents and community leaders to better understand the use and purpose of <a href="mailto:snack">snack</a> food items in the face of time pressures, marketing, and child preferences.

"Although there is sometimes a place for snack items to bridge the gap between main meals, our results reinforce calls to educate parents and schools about appropriate snack items and amounts of food to offer children," she said.

"Our research indicates that more attention and resources should be directed to toward offering <u>children</u> smaller amounts of food and, specifically, fewer and less variety of energy-dense foods and prepackaged items. Interventions should not solely invest in reducing dishware size in the expectation that this will lead to reduced intake of snack foods."

**More information:** Jessica A. Kerr et al. Child and adult snack food intake in response to manipulated pre-packaged snack item quantity/variety and snack box size: a population-based randomized trial, *International Journal of Obesity* (2019). DOI: 10.1038/s41366-019-0407-z

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