

Nursery school games encourage toddlers to try new healthy foods

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Toddlers could receive a kick-start to a healthier diet later in life by taking part in fun fruit and veg games at nursery school, new University of Reading research has found.

In a study of Berkshire nursery [children](#), the researchers found that [toddlers](#) who had drawn, smelled and poked unusual [vegetables](#), including [sweet potato](#) and pomagranates, were 32% more likely to taste them over other vegetables at a mealtime. The toddlers also touched 66% of the vegetables they had done the activities with, compared to only 49% of the unfamiliar vegetables.

Fruit and vegetable consumption is associated with lower levels of obesity and a reduction in the risk of cardiovascular disease and cancers of the mouth, lungs and stomach. The earlier healthy eating habits begin, the greater the health benefits. Yet, only one in five children achieve the recommended five portions of [fruit and vegetables](#) a day.

Vegetable consumption is especially low in young children. According to a recent [National Diet and](#)

[Nutrition Survey](#) pre-schoolers eat on average 74 g of vegetables per day, less than one adult portion. In some parts of the UK 40% of pre-schoolers eat no vegetables at all.

Dr Carmel Houston-Price, from the University's School of Psychology and Clinical Language Sciences, led the study. She said: "Fruit and vegetables are the cornerstone of a healthy diet. By developing a fondness for a wide variety of healthy foods toddlers stand the best chance of having a 'five a day' diet later in life.

"But getting toddlers to try something new is not an easy task. Most parents will have experienced frustration, and a messy floor, when encouraging their toddler to try different foods - especially when it isn't a high fat or sugary treat. Our study showed that introducing new foods through fun familiarisation activities such as letting children poke their fingers inside foods, smelling them and drawing pictures of them, increased toddlers' willingness to touch and taste them at mealtimes - especially the vegetables."

The study involved ninety-two children from six nurseries, aged between 12 and 36 months. They were separated into a control group and a study group which took part in sensory activities with unfamiliar foods, such as sweet potato, broad beans, rhubarb and pomegranates, every day for four weeks.

The researchers then conducted a mealtime taste test to see whether exposure to the fruit and veg made any difference to children's choices. Straight away, the researchers noticed that most children chose to touch and taste the fruit and vegetables that had been used in the activities first, before they considered whether to taste the foods they had not seen before.

Dr Houston-Price continued: "At around the age of two years, children become more cautious about

what they will eat - which is sensible because as they become increasingly mobile they encounter lots of things that are not safe to eat. This means that toddlers, like many of us, like to know exactly what it is they are eating."

The research comes after health leaders called for an emergency taskforce to be set up to tackle childhood obesity in England earlier this year. The group called for better co-ordination of obesity treatment services so that all children can be encouraged to eat healthily from a young age.

Dr Houston-Price added: "Poor diet in childhood is associated with obesity and increases the risk of a range of life-threatening illnesses in later life. Our research could help parents to introduce more vegetables into children's diets, and encourage children to make healthy food choices and actually enjoy eating healthily as they grow older."

More information: "Exposure to foods' non-taste sensory properties. A nursery intervention to increase children's willingness to try fruit and vegetables." *Appetite*. 2014 Sep 10;84C:1-6. DOI: [10.1016/j.appet.2014.08.040](https://doi.org/10.1016/j.appet.2014.08.040) . [Epub ahead of print]

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