

## Shorter sleepers are over-eaters

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Young children who sleep less eat more, which can lead to obesity and related health problems later in life, reports a new study by UCL researchers.

The study found that 16 month-old [children](#) who slept for less than 10 hours each day consumed on average 105kcal more per day than children who slept for more than 13 hours. This is an increase of around 10% from 982kcal to 1087kcal.

Associations between eating, weight and sleep have been reported previously in older children and adults, but the study, published in the *International Journal of Obesity*, is the first to directly link sleep to energy intake in children under the age of 3 years. The association was observed before differences in weight emerged, strongly suggesting that energy intake is a key pathway through which sleep contributes to weight gain in early childhood. While the exact causes remain unclear, the regulation of appetite hormones may become disrupted by shorter sleeping patterns.

The study, funded by Cancer Research UK, involved 1303 UK families in the Gemini birth cohort, monitoring sleep when children were 16 months old and diet at 21 months old.

"We know that shorter sleep in early life increases the risk of [obesity](#), so we wanted to understand whether shorter sleeping children consume more calories" explains Dr Abi Fisher of the Health Behaviour Research Centre at UCL. "Previous studies in adults and older children have

shown that sleep loss causes people to eat more, but in early life parents make most of the decisions about when and how much their children [eat](#), so [young children](#) cannot be assumed to show the same patterns.

"The key message here is that shorter sleeping children may prone to consume too many calories," says Dr Fisher. "Although more research is needed to understand why this might be, it is something parents should be made aware of."

Provided by University College London

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