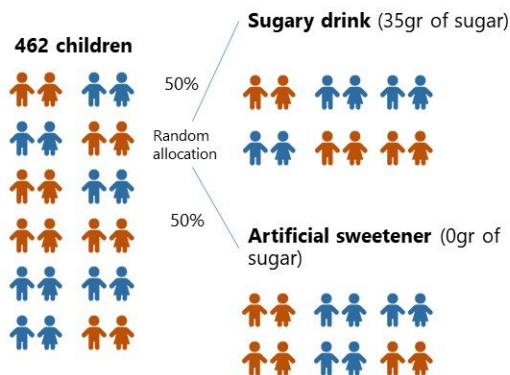


# What is the short-term impact of sugary drinks in the classroom?

November 3 2021

Sugary drinks impact restfulness and math scores of preschool children

462 preschool children (age 4) received sugary drinks or artificial sweeteners...



Source: **Schiltz & De Witte (2021)**: Sugar Rush or Sugar Crash? Experimental Evidence on the Impact of Sugary Drinks in the Classroom. *Health Economics*

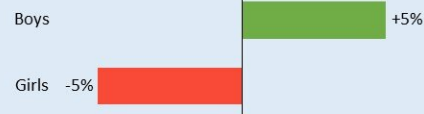


... leading to changes in restfulness and math scores resulting from sugary drinks

Boys become less restful after drinking a sugary drink compared to group with artificial sweetener



Boys increase and girls decrease math scores after drinking a sugary drink compared to group with artificial sweetener



A new study in *Health Economics* finds that sugary drinks impact behavior and math scores of preschool children. Credit: Schiltz and De Witte

A new study in *Health Economics* finds that sugary drinks impact behavior and math scores of preschool children.

In the study, investigators randomly assigned 462 children to receive sugary drinks or artificially sweetened drinks, and they collected data

before and after consumption.

Consuming one sugary drink tended to induce an initial 'relaxing' effect for boys, before making them more restless. Girls' behavior was not significantly affected.

Also, consuming one [sugary drink](#) seemed to have a [negative effect](#) on [student achievement](#) in math for boys and a [positive effect](#) for girls.

"Our study is the first to provide large-scale experimental evidence on the impact of sugary drinks on preschool children. The results clearly indicate a causal impact of sugary drinks on children's behavior and test scores," said corresponding author Fritz Schiltz, Ph.D., of KU Leuven, in Belgium.

"The associated effects on in-class performance have major policy implications, as sugary drinks are still ubiquitously sold in schools and as the consumption of sugary drinks is typically higher among children from low-income households and among boys," added co-author Kristof De Witte, a professor at KU Leuven.

**More information:** Fritz Schiltz et al, Sugar rush or sugar crash? Experimental evidence on the impact of sugary drinks in the classroom, *Health Economics* (2021). [DOI: 10.1002/hec.4444](https://doi.org/10.1002/hec.4444)

Provided by Wiley

Citation: What is the short-term impact of sugary drinks in the classroom? (2021, November 3) retrieved 24 November 2023 from <https://medicalxpress.com/news/2021-11-short-term-impact-sugary-classroom.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.