

## Earlier puberty in Swedish boys only partially due to higher BMI

July 30 2019

---



(HealthDay)—There is a secular trend for earlier pubertal timing among

Swedish boys, according to a study published online July 22 in *JAMA Pediatrics*.

Claes Ohlsson, M.D., Ph.D., from the University of Gothenburg in Sweden, and colleagues collected heights and weights from school health records for boys born consecutively starting in 1947 and every five years from 1951 to 1996 (375 boys for each [birth](#) cohort from 1947 to 1991; 340 boys for the [birth cohort](#) in 1996; and 4,090 boys for the total cohort). The authors estimated age at the peak height velocity (PHV), maximum growth velocity during puberty, and [childhood](#) body mass index (BMI) at age 8 years for all study participants.

The researchers found that the mean age at PHV was 13.9 years. A significant association was noted between year of birth and age at PHV. For every decade increase in birth year, age at PHV was 1.5 months earlier. Age at PHV was 1.2 months earlier per decade increase in birth year even after adjusting for childhood BMI. When repeating analyses for the subgroup of boys born in Sweden with parents born in Sweden, the results were similar, suggesting that the secular trend was not explained by [demographic changes](#) in the population during the study period.

"We provide evidence of a secular trend for earlier pubertal timing in boys that is partially explained by an increased childhood BMI, but other factors that are unknown contribute," the authors write.

**More information:** [Abstract/Full Text](#)  
[Editorial \(subscription or payment may be required\)](#)

Copyright © 2019 [HealthDay](#). All rights reserved.

Citation: Earlier puberty in Swedish boys only partially due to higher BMI (2019, July 30)

retrieved 27 April 2024 from

<https://medicalxpress.com/news/2019-07-earlier-puberty-swedish-boys-partially.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.