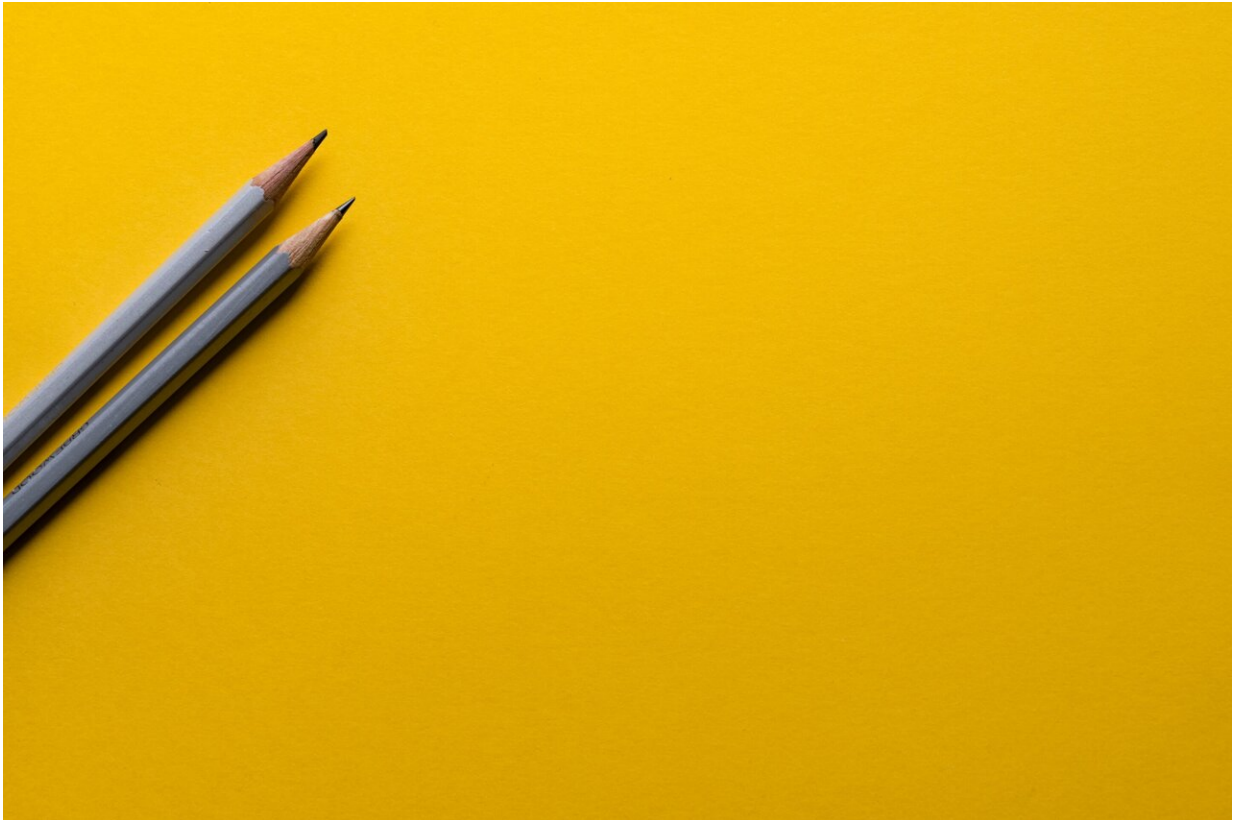


No disadvantages to having kids early

June 11 2020



Credit: CC0 Public Domain

When some species are heavily hunted, animal mortality increases and they have fewer offspring in the course of their lives.

To compensate for this, animals that are hunted often respond by becoming sexually mature and bearing young earlier than species that are

not hunted. In other words, animals being hunted have a "faster" [life history](#).

Until now we've believed that [animals](#) that grew fast did so at a cost. The idea has been that rapid physical maturity happens at the expense of a long-lived body. The early-growth individuals should therefore be more prone to disease and earlier natural death, partly due to a poorer immune system and increased physiological stress.

This pattern may indeed apply to some species. But an NTNU study of wild boar recently published in *Oecologia* shows that this is not always the case.

Goes against conventional knowledge

Wild boar are starting to establish themselves in Norway after spreading via Sweden. But this research team examined around 1,000 wild boars in the Châteauvillain-Arc-en-Barrois forest in France.

The most common cause of death for this wild [boar](#) population is [hunting](#) by humans.

"Evidence indicates that hunting by humans affects the population. The hunting pressure means it's advantageous for wild swine to become sexually mature and have young earlier," says Lara Veylit, first author of the study and a Ph.D. candidate in the Department of Biology at NTNU.

Normally, researchers would expect [wild boars](#) in this population to reproduce earlier, but also to die earlier as a result of higher stress on the body. What they observed went against the conventional knowledge in the field.

Fast-growing males lived longer

"We found that males that grew rapidly actually had [lower mortality](#) due to both hunting and natural causes," says Veylit.

The faster-growing males also lived longer on average, whether taken by hunters or dying from [natural causes](#).

This finding may indicate that the healthiest and most sexually attractive males are the early-maturing ones. They are also the best at hiding from hunters.

Low association between growth and mortality for females

The [mortality](#) for the females was not affected by whether they developed early or late.

Females that reproduce early can be much smaller when they are young. The females only needed to reach 35 to 40 percent of their adult weight when having their first litter.

But the strain this places on the body does not seem to make them more vulnerable or prone to early mortality.

More information: Lara Veylit et al. Grow fast at no cost: no evidence for a mortality cost for fast early-life growth in a hunted wild boar population, *Oecologia* (2020). [DOI: 10.1007/s00442-020-04633-9](https://doi.org/10.1007/s00442-020-04633-9)

Provided by Norwegian University of Science and Technology

Citation: No disadvantages to having kids early (2020, June 11) retrieved 19 April 2024 from <https://phys.org/news/2020-06-disadvantages-kids-early.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.