Abattoir lesions in cattle associated with an increased age at slaughter

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Is disease detected post-mortem associated with a detectable increase in the slaughter age, as a proxy for a decrease in production?
 Sub-clinical diseases can reduce weight gain or production efficiency, resulting in animals taking a longer time to reach slaughter weight.

Farmers are more likely to send animals to slaughter when they reach a certain weight or fat coverage.

What data do we have?
Irish cattle abattoir dataset
Years 2016 to 2023
4.4 million records
Health information on liver/lung
Animal and herd demographics
Carcase information



Linear mixed effects models,

herd as the random effect

For steers in beef production systems and beef breeds:



Additional age at slaughter with pneumonia 9 days mild disease

> **3 23 days severe disease**



The effect increases with severity of the lesions. Reduced effect in young bulls – possible limited exposure time.

Extra days on farm impacts economic and environmental sustainability.

