

# Free range 'no increased infection risk' for chickens

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Scientists at Oxford University have found that the free-range environment is not a major source for the infection of chickens with a bug responsible for 340,000 cases of food poisoning in the UK every year. Source: Oxford University

Chicken meat contaminated with the bacterium *Campylobacter jejuni* is a major cause of food poisoning in humans. This has led to increased biosecurity measures that attempt to limit infection of chickens in intensive, housed conditions. It had been thought that free-range chickens are more at risk because they cannot be protected from outdoor infection sources such as wild birds.

'It was widely thought that free-range chickens were likely to pick up *Campylobacter* from the free-range environment, particularly wild birds, but none of the evidence we have gathered supports this as a major infection source,' said Professor Martin Maiden of Oxford University's Department of Zoology who led the research.

'If this was the case then you would expect to see free-range chickens sharing genetically similar bacteria with local wild bird populations but our study suggests that this is not the case. It's good news as it means that not being able to extend comprehensive biosecurity measures to free-range poultry is probably not the threat to human health that had been feared.'

A total of 975 chickens from 64 flocks were sampled over a period of 10 months as part of the research. Wild bird populations in the areas concerned were also studied.

The research was conducted by Professor Martin Maiden, Professor Marian Stamp Dawkins, Dr Frances Colles, Dr Noel McCarthy and Dr Samuel Sheppard of the Department of Zoology and Dr Kate Dingle and Dr Alison Cody of the Nuffield Department of Clinical Laboratory Sciences at the University of Oxford.

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