

Levels and trends of antimicrobial resistance in *Campylobacter* spp. from chicken in the UK

Results available: Results available

Maes o ddi-ddordeb ymchwil: [Antimicrobial resistance](#)

Research topics: [Antimicrobial resistance](#) , [Campylobacter](#)

Cod prosiect: FS307031

Awduron: Frieda Jorgensen, John Rodgers, Daisy Duncan, Joanna Lawes, Charles Byrne and Craig Swift

Cynhaliwyd gan: UK Health Security Agency, The Animal and Plant Health Agency

DOI: <https://doi.org/10.46756/sci.fsa.dud728>

Statws y prosiect: Wedi'i gwblhau

Dyddiad cyhoeddi: 28 Medi 2022

Download a PDF version of the report:

PDF

[Gweld Levels and trends of antimicrobial resistance in *Campylobacter* spp. from chicken in the UK as PDF\(Open in a new window\)](#) (639.45 KB)

Liability statement

This report has been produced by the UK Health Security Agency (the UKHSA) under a Memorandum of Understanding placed between the Food Standards Agency (the FSA) and UKHSA. The views expressed herein are not necessarily those of the FSA. UKHSA warrants that all reasonable skill and care has been used in preparing this report. Notwithstanding this warranty, the UKHSA shall not be under any liability for loss of profit, business, revenues or any special indirect or consequential damage of any nature whatsoever or loss of anticipated saving or for any increased costs sustained by the client or his or her servants or agents arising in any way whether directly or indirectly as a result of reliance on this report or of any error or defect in this report.

Acknowledgements

The authors would like to thank the following people:

- All staff who was involved in the successful delivery of this project from the Animal and Plant Health Agency (APHA) and UKHSA through the data collection and analysis
- The Department of the Environment and Food and Rural Affairs (DEFRA) and the Veterinary Medicines Directorate (VMD) for support and funding for data collection
- Colleagues in UKHSA reference laboratory at Colindale for whole-genome-sequencing derived data.
- The FSA for funding this work

Abbreviations

Acronym	Definition of term
AMR	Antimicrobial resistance With terms used to describe the antimicrobial resistance levels according to EU zoonoses reports (EFSA, 2018), defined as: Rare: less than 0.1 % Very low: 0.1 % to 1.0 % Low: more than 1.0 % to 10.0 % Moderate: more than 10.0 % to 20.0 % High: more than 20.0 % to 50.0 % Very high: more than 50.0 % to 70.0 % Extremely high: more than 70.0 %
BPC	British Poultry Council
Broiler	Chicken reared for meat
°C	Degrees Celsius
GBRU	Gastrointestinal Bacteria Reference unit
Cfu	Colony forming units
CI	Confidence Interval
CIP	Ciprofloxacin
ECOFF	Epidemiological Cut Off value (with respect to antimicrobial resistance)
ERY	Erythromycin
EU	European Union
FSA	Food Standards Agency
FSS	Food Standards Scotland
G	Gram
GEN	Gentamicin

Acronym	Definition of term
HP-CIA	High Priority Critically Important Antibiotics
H	Hours
ISO	International Organisation for Standardisation
L	Litre
mCCDA	modified Charcoal Cefoperazone Deoxycholate Agar
MIC	Minimum Inhibitory Concentration
mg	Milligram
NA	Not applicable
NAL	Nalidixic Acid
RUMA	Responsible use of medicines in Agriculture Alliance
spp.	Species
STR	Streptomycin
TET	Tetracycline
UKAS	United Kingdom Accreditation Service
UKHSA	UK Healthy Security Agency (formerly Public Health England)
WGS	Whole Genome Sequencing