



Supplementary Materials

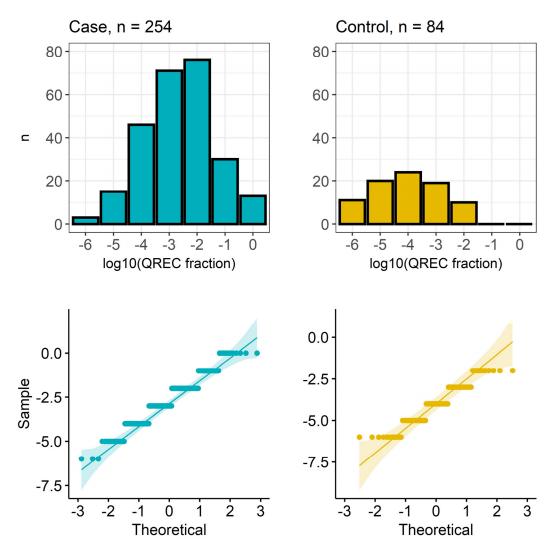


Figure S1. Distribution of the log10-transformed fractions of quinolone resistant *E. coli* (QREC) isolates in the case (blue) and control (yellow) herds, showing a normal distribution.

 $\textbf{Table S1.} \ X^2\text{-tests for all four age groups, case versus control.}$

Age group	Number of samples			V2 rvalera	p-value
	Туре	Positive	Negative	X ² -value	<i>p</i> -value
Weaner	Case	72	28	103.96	<i>p</i> < 0.01
	Control	3	100		
Fattening pig	Case	25	35	21.068	<i>p</i> < 0.01
	Control	7	73		
Gilt	Case	81	20	49.121	<i>p</i> < 0.01
	Control	26	62		
Sow	Case	76	26	13.259	<i>p</i> < 0.01
	Control	48	49		

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Table S2. Resistance patterns among the 130 quinolone resistant *E. coli* isolates with additional resistances in addition to ciprofloxacin and/or nalidixic acid. AMP = ampicillin, CAZ = ceftazidime, CHL = chloramphenicol, CTX = cefotaxime, GEN = gentamicin, SMX = sulfamethoxazole, TET = tetracycline, TGC = tigecycline, TMP = trimethoprim.

Antimicrobial	Number of isolates	Number of resistances
TET	62	1
SMX, TET	36	2
SMX, TMP, AMP	10	3
SMX, TMP, TET, CHL, AMP, GEN	6	6
GEN	4	1
SMX, AMP	3	2
SMX, TET, CHL, AMP, GEN	2	5
TGC	2	1
AMP	1	1
SMX	1	1
SMX, CAZ, CTX,	1	3
SMX, TET, AMP, GEN	1	4
TET, TGC	1	2

Table S3. Overview of the relative amount of bacteria detected if growth at the respective dilution. The numbers were used for both QREC and total *E. coli*.

Dilution	No. of bacteria		
Overnight culture	10^{3}		
10^{-1}	10^{4}		
10-2	10^{5}		
10-3	10^{6}		
10^{-4}	107		
10-5	10^{8}		
10-6	10^{9}		

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