

Supplementary Materials:

Table S1a. Means of enrofloxacin- resistant *E. coli* isolates from cloacal swab and manure samples from turkeys.

Time of sample collection*		Enrofloxacin					
		cloacal swabs (n=24)			manure (n=6)		
		BT	AT	ET	BT	AT	ET
T1	G1	1.42 ^{A,b}	1.83 ^{A,a}	2.00 ^{A,a}	1.33 ^{A,a}	1.33 ^{B,a}	1.33 ^{B,a}
	G2	1.42 ^{A,b}	2.00 ^{A,a}	2.04 ^{A,a}	2.00 ^{A,a}	2.00 ^{A,a}	2.67 ^{A,a}
	G3	1.42 ^{A,b}	1.92 ^{A,a}	2.46 ^{A,a}	1.67 ^{A,a}	2.33 ^{A,a}	1.33 ^{B,a}
	G4	1.42 ^{A,b}	2.17 ^{A,a}	2.29 ^{A,a}	2.00 ^{A,a}	2.33 ^{A,a}	1.33 ^{B,a}
T2	G1	1.00 ^{A,b}	3.00 ^{A,a}	2.96 ^{A,a}	1.00 ^{A,b}	2.17 ^{A,a}	2.83 ^{A,a}
	G2	1.00 ^{A,b}	3.00 ^{A,a}	3.00 ^{A,a}	1.00 ^{A,b}	2.67 ^{A,a}	2.83 ^{A,a}
	G3	1.00 ^{A,c}	2.58 ^{B,b}	3.00 ^{A,a}	1.00 ^{A,b}	2.67 ^{A,a}	3.00 ^{A,a}
	G4	1.00 ^{A,b}	3.00 ^{A,a}	3.00 ^{A,a}	1.00 ^{A,b}	3.00 ^{A,a}	3.00 ^{A,a}
T3	G1	1.00 ^{A,a}	1.00 ^{A,a}	1.00 ^{B,a}	1.00 ^{A,a}	1.00 ^{A,a}	1.00 ^{A,a}
	G2	1.00 ^{A,a}	1.00 ^{A,a}	1.00 ^{A,a}	1.00 ^{A,a}	1.00 ^{A,a}	1.00 ^{A,a}
	G3	1.00 ^{A,a}	1.00 ^{A,a}	1.00 ^{B,a}	1.00 ^{A,a}	1.00 ^{A,a}	1.00 ^{A,a}
	G4	1.00 ^{A,a}	1.00 ^{A,a}	1.00 ^{B,a}	1.00 ^{A,a}	1.17 ^{A,a}	1.00 ^{A,a}

^{a, b, c} means in the same row differ significantly between sampling days at group level ($p < 0.05$);

^{A, B} means in the same column differ significantly between groups on level of sampling day ($p < 0.05$);

*BT = before treatment; AT = after treatment; ET = end of trial;

T1 = untreated antibiotic trial, T2 = treated antibiotic trial, T3 = trial with simulated water spillage containing antibiotic.

G1 = entire floor pen covered with litter; G2 = floor pen covered with litter and having floor heating; G3 = partially (50:50) slatted flooring including an area that was littered; G4 = fully slatted flooring with a sand bath (900 cm²).

Table S1b. Means of ampicillin-resistant *E. coli* isolates from cloacal swab and manure samples from turkeys.

Time of sample collection*		Ampicillin					
		cloacal swab (n=24)			manure (n=6)		
		BT	AT	ET	BT	AT	ET
T1	G1	1.33 ^{A,b}	2.08 ^{A,a}	1.50 ^{A,b}	1.33 ^{A,b}	2.33 ^{A,a}	1.00 ^{A,b}
	G2	1.33 ^{A,a}	1.75 ^{AB,a}	1.75 ^{A,a}	1.33 ^{A,a}	1.00 ^{B,a}	1.00 ^{A,a}
	G3	1.33 ^{A,a}	1.50 ^{B,a}	1.33 ^{A,a}	1.33 ^{A,a}	1.00 ^{B,a}	1.00 ^{A,a}
	G4	1.33 ^{A,a}	1.88 ^{AB,a}	1.50 ^{A,a}	1.67 ^{A,a}	1.00 ^{B,a}	1.00 ^{A,a}
T2	G1	1.00 ^{A,b}	1.92 ^{A,a}	2.08 ^{AB,a}	1.00 ^{A,a}	1.67 ^{A,a}	1.67 ^{A,a}
	G2	1.00 ^{A,b}	1.17 ^{B,b}	2.25 ^{A,a}	1.00 ^{A,b}	2.33 ^{A,a}	1.67 ^{A,ab}
	G3	1.00 ^{A,b}	1.08 ^{B,b}	2.08 ^{AB,a}	1.00 ^{A,b}	2.50 ^{A,a}	2.00 ^{A,a}
	G4	1.00 ^{A,b}	1.08 ^{B,b}	1.58 ^{B,a}	1.00 ^{A,b}	2.00 ^{A,a}	1.33 ^{A,ab}
T3	G1	1.00 ^{A,c}	2.5 ^{A,a}	1.50 ^{A,b}	1.00 ^{A,a}	1.33 ^{A,a}	1.67 ^{A,a}
	G2	1.00 ^{A,b}	1.92 ^{B,a}	1.75 ^{A,a}	1.00 ^{A,b}	1.00 ^{A,b}	2.33 ^{A,a}
	G3	1.00 ^{A,b}	1.92 ^{B,a}	1.75 ^{A,a}	1.33 ^{A,a}	1.00 ^{A,a}	1.67 ^{A,a}
	G4	1.00 ^{A,b}	2.00 ^{AB,a}	1.92 ^{A,a}	1.67 ^{A,a}	1.33 ^{A,a}	1.67 ^{A,a}

^{a, b, c} means in the same row differ significantly between sampling days at group level ($p < 0.05$);

^{A, B} means in the same column differ significantly between groups on level of sampling day ($p < 0.05$);

*BT = before treatment; AT = after treatment; ET = end of trial;

T1 = untreated antibiotic trial, T2 = treated antibiotic trial, T3 = trial with simulated water spillage containing antibiotic.

G1 = entire floor pen covered with litter; G2 = floor pen covered with litter and having floor heating; G3 = partially (50:50) slatted flooring including an area that was littered; G4 = fully slatted flooring with a sand bath (900 cm²).