

Table S1. Descriptive and univariable analysis of the demographic and anthropogenic factors of interest (n=29,799).

Variables	Category	Percentage	Prevalence % (95% CI)	OR (95% CI)	P-value ^{a)}	P-value ^{b)}	OR (95% CI)
Overall		100	2.1 (2.0-2.3)	NA	NA	NA	NA
Sex					<0.0001*		
	Female	58.4	1.6 (1.4-1.8)	1.0		<0.0001*	1.0
	Male	41.6	2.8 (2.5-3.1)	1.8 (1.5-2.1)			1.5 (1.3-1.8)
Age					<0.0001*		
	Baby (<1)	6.6	3.5 (2.7-4.4)	3.5 (1.8-6.6)		0.0002*	3.4 (1.8-6.5)
	Pre-schooler (1-5)	4.7	2.2 (1.5-3.1)	2.2 (1.1-4.4)		0.0165*	2.3 (1.2-4.7)
	School children (6-12)	3.6	1.0 (0.5-1.8)	1.0		0.0008*	1.0
	Teenager (13-18)	1.2	3.2 (1.6-5.6)	3.2 (1.4-7.3)		0.0083*	3.1 (1.3-7.3)
	Youth (19-24)	2.2	1.4 (0.6-2.6)	1.4 (0.6-3.3)		0.4829	1.4 (0.6-3.4)
	Adult (25-59)	38.9	1.9 (1.7-2.2)	1.9 (1.0-3.5)		0.0326*	2.0 (1.1-3.6)
	Senior (>=60)	42.8	2.2 (1.9-2.5)	2.2 (1.2-4.0)		0.0115*	2.2 (1.2-4.1)
Infectious sites					0.0002*		
	Other	32.6	2.4 (2.1-2.7)	1.0		0.0181*	1.0
	Blood	13.9	2.6 (2.1-3.1)	1.1 (0.9-1.4)		0.9295	1.0 (0.8-1.3)
	Urine	42.1	1.7 (1.5-2.0)	0.7 (0.6-0.9)		0.0042*	0.8 (0.6-0.9)
	Sputum	11.1	2.3 (1.8-2.8)	1.0 (0.7-1.3)		0.4321	0.9 (0.7-1.2)
	Cerebrospinal fluid	0.3	5.2 (1.7-11.6)	2.2 (0.9-5.6)		0.1923	1.8 (0.7-4.6)
Population density (person Km ⁻²)					<0.0001*		
	0-1	0	NA	NA			

	2-25	11.0	0.6 (0.4-1.0)	1.0		
	26-50	0	NA	NA		
	51-100	6.8	1.1 (0.7-1.7)	1.8 (1.0-3.2)		
	101-200	18.5	2.7 (2.2-3.1)	4.2 (2.7-6.7)		
	201-400	17.6	2.1 (1.7-2.5)	3.3 (2.1-5.3)		
	401-500	4.8	2.8 (2.0-3.8)	4.4 (2.6-7.5)		
	501-1000	17.1	2.3 (1.9-2.8)	3.7 (2.3-5.9)		
	>1000	24.2	2.4 (2.1-2.8)	3.8 (2.4-6.0)		
Population number (10,000)					<0.0001*	
Gross domestic product (100 million RMB)					<0.0001*	<0.0001*
Antibiotics usage (10,000 tonnes)			β -lactams		0.0006*	
			Sulfonamides		0.0006*	
			Tetracyclines		0.0002*	
			Fluoroquinolones		0.0006*	
			Macrolides		0.0006*	
Zoning of pig production conditions (10,000 tonnes)					<0.0001*	
	Moderate development	14.2	0.8 (0.6-1.2)	1.0	<0.0001*	1.0
	Potential development	19.1	1.0 (0.8-1.3)	1.2 (0.8-1.8)	0.1387	1.4 (0.9-2.1)
	Restraint development	50.1	2.3 (2.1-2.6)	2.8 (2.0-3.9)	<0.0001*	3.7 (2.6-5.3)
	Key development	16.6	3.8 (3.3-4.4)	4.7 (3.3-6.7)	<0.0001*	5.5 (3.5-8.8)
Zoning of chicken production conditions (10,000 tonnes)					<0.0001*	

	Minor producing	71.6	1.7 (1.6-1.9)	1.0	0.0227*	1.0
	Main producing	28.4	3.1 (2.7-3.5)	1.8 (1.5-2.1)		1.4 (1.0-1.8)
Annual animal production (10,000 tonnes)			Cattle		0.8702	
			Sheep		0.5874	
			Freshwater aquaculture		<0.0001*	
Milk production (10,000 tonnes)					0.0011*	
Annual animal-derived food consumption (kg person ⁻¹)			Meat		<0.0001*	
			Pork		<0.0001*	
			Beef		<0.0001*	
			Mutton		<0.0001*	
			Chicken meat		<0.0001*	
			Aquatic product		0.0032*	
			Milk		0.0047*	
			Egg		0.0499*	
Daily animal-derived food intake (g d ⁻¹)			Total meat		<0.0001*	
			Aquatic product		<0.0001*	
			Egg		0.3363	

^{a)}Univariate tests: variates with a *P*-value <0.05 were selected for multivariable models following Cramer's coefficient analysis.

^{b)}Multivariable model including: sex, age, infection site, GDP, population density, zoning of pig production conditions, zoning of chicken production conditions, milk production, and β -lactam pollution.

**P*<0.05.

NA, not applicable.