Supplement 1:

Supplement 1, Table 1: Major measures of the statistical distribution of the estimated weight in kg at the start of treatment over the years

year	number of records	Body weight in kg at start of treatment						
		mean	min	IQR	25% quantile	median	75% quantile	max
2013	619	0.721	0.042	1.105	0.057	0.719	1.162	2.334
2014	446	0.611	0.042	1.120	0.042	0.134	1.162	2.429
2015	503	0.531	0.042	0.887	0.042	0.057	0.929	2.334
2016	586	0.616	0.042	1.040	0.042	0.111	1.082	2.334
2017	602	0.607	0.042	1.040	0.042	0.111	1.082	2.429
2018	518	0.432	0.042	0.551	0.042	0.057	0.593	2.524
Total	3,274	0.592	0.042	1.040	0.042	0.111	1.082	2.524

Supplement 1, Table 2: Major measures of the statistical distribution of the age of the broiler chickens in days at the time of treatment per antimicrobial class over time

Antimicrobial class	year	number of records	min	25% - quantile	median	75% - quantile	max
Aminoglycosides	**2013**	94	1	1	1	1	24
	2014	140	1	1	1	1	5
	2015	148	1	1	1	2	22
	2016	209	1	1	1	2	5
	2017	211	1	1	1	2	10
	2018	180	1	1	1	2	13
Beta-Lactams	**2013**	163	1	19	22	28	36
	2014	118	1	12	24	30	39
	2015	152	1	2	20	24	38
	2016	161	1	15	22	30	38
	2017	136	1	14	22	30	38
	2018	115	1	1	10	23	35
Fluoroquinolones	**2013**	52	1	1	3	5	33
	2014	14	1	2	4	7	8
	2015	19	1	1	4	26	38
	2016	17	1	2	3	4	34
	2017	22	1	3	4	4	9
	2018	12	1	2	6	17	33
Lincosamides	**2013**	94	1	1	1	1	24
	2014	140	1	1	1	1	5
	2015	148	1	1	1	2	22
	2016	209	1	1	1	2	5
	2017	211	1	1	1	2	10
	2018	182	1	1	2	2	13
Macrolides	**2013**	49	1	19	22	31	38
	2014	6	16	16	21	24	24
	2015	4	22	22	22	24	25
	2016	4	20	20	20	22	23

Antimicrobial class	year	number of records	min	25% - quantile	median	75% - quantile	max
	2017	13	18	24	24	30	33
Polypeptides	2013	235	1	9	21	28	38
	2014	149	1	7	22	29	37
	2015	178	1	2	19	25	38
	2016	177	1	12	22	30	38
	2017	199	1	8	22	30	39
	2018	149	1	2	14	29	40
Sulfonamides	2013	26	1	1	2	5	31
	2014	19	1	1	2	4	5
	2015	2	1	1	1	1	1
	2016	17	1	4	4	16	16
	2017	18	1	4	6	19	33
	2018	50	1	2	5	26	36
Tetracyclines	2016	1	26	26	26	26	26
	2017	3	1	1	5	5	5
	2018	10	1	1	1	5	24
Trimethoprim	2013	26	1	1	2	5	31
	2014	19	1	1	2	4	5
	2015	2	1	1	1	1	1
	2016	17	1	4	4	16	16
	2017	18	1	4	6	19	33
	2018	50	1	2	5	26	36

Supplement 1, Table 3: Major measures of the statistical distribution of the estimated weight in kg of the broiler chickens at the start of treatment per antimicrobial class

Antimicrobial class	Body weight in kg at start of treatment							
	number of records	mean	min	IQR	25% quantile	median	75% quantile	Max
Aminoglycosides	982	0.055	0.042	0.015	0.042	0.042	0.057	1.082
Beta-Lactams	845	0.894	0.042	1.254	0.160	0.929	1.414	2.429
Fluoroquinolones	136	0.231	0.042	0.077	0.057	0.073	0.134	2.334
Lincosamides	984	0.055	0.042	0.015	0.042	0.042	0.057	1.082
Macrolides	76	1.024	0.042	0.628	0.786	0.929	1.414	2.334
Polypeptides	1,087	0.887	0.042	1.390	0.111	0.856	1.501	2.524
Sulfonamides	132	0.376	0.042	0.252	0.042	0.091	0.294	2.144
Tetracyclines	14	0.296	0.042	0.069	0.042	0.077	0.111	1.244
Trimethoprim	132	0.376	0.042	0.252	0.042	0.091	0.294	2.144

Supplement 1, Table 4: Major measures of the statistical distribution of the estimated weight in kg of the broiler chickens at the start of treatment per antimicrobial class over the years

Antimicrobial class	year	Body weight in kg at start of treatment							
		number of records	mean	min	IQR	25% quantile	median	75% quantile	Max
Aminoglycosides	2013	94	0.058	0.042	-	0.042	0.042	0.042	1.082

Antimicrobial class	year	Body weight in kg at start of treatment							
		number of records	mean	min	IQR	25% quantile	median	75% quantile	Max
	2014	140	0.048	0.042	-	0.042	0.042	0.042	0.111
	2015	148	0.057	0.042	0.015	0.042	0.042	0.057	0.929
	2016	209	0.053	0.042	0.015	0.042	0.042	0.057	0.111
	2017	211	0.055	0.042	0.015	0.042	0.042	0.057	0.256
	2018	180	0.057	0.042	0.015	0.042	0.042	0.057	0.381
Beta-Lactams	**2013**	163	1.022	0.042	0.695	0.719	0.929	1.414	2.144
	2014	118	0.998	0.042	1.254	0.336	1.043	1.590	2.429
	2015	152	0.717	0.042	1.025	0.057	0.786	1.082	2.334
	2016	161	1.002	0.042	1.110	0.480	0.929	1.590	2.334
	2017	136	0.987	0.042	1.185	0.405	0.929	1.590	2.334
	2018	115	0.579	0.042	0.962	0.042	0.256	1.004	2.050
Fluoroquinolones	**2013**	52	0.189	0.042	0.069	0.042	0.073	0.111	1.863
	2014	14	0.103	0.042	0.103	0.057	0.091	0.160	0.189
	2015	19	0.507	0.042	1.202	0.042	0.091	1.244	2.334
	2016	17	0.194	0.042	0.034	0.057	0.073	0.091	1.956
	2017	22	0.094	0.042	0.018	0.073	0.091	0.091	0.220
	2018	12	0.425	0.042	0.618	0.057	0.126	0.676	1.863
Lincosamides	**2013**	94	0.058	0.042	-	0.042	0.042	0.042	1.082
	2014	140	0.048	0.042	-	0.042	0.042	0.042	0.111
	2015	148	0.057	0.042	0.015	0.042	0.042	0.057	0.929
	2016	209	0.053	0.042	0.015	0.042	0.042	0.057	0.111
	2017	211	0.055	0.042	0.015	0.042	0.042	0.057	0.256
	2018	182	0.057	0.042	0.015	0.042	0.050	0.057	0.381
Macrolides	**2013**	49	0.995	0.042	0.961	0.719	0.929	1.680	2.334
	2014	6	0.814	0.535	0.547	0.535	0.824	1.082	1.082
	2015	4	0.987	0.929	0.117	0.929	0.929	1.046	1.162
	2016	4	0.841	0.786	0.109	0.786	0.786	0.895	1.004
	2017	13	1.300	0.655	0.508	1.082	1.082	1.590	1.863
Polypeptides	**2013**	235	0.902	0.042	1.194	0.220	0.856	1.414	2.334
	2014	149	0.942	0.042	1.341	0.160	0.929	1.501	2.239
	2015	178	0.765	0.042	1.105	0.057	0.721	1.162	2.334
	2016	177	0.993	0.042	1.254	0.336	0.929	1.590	2.334
	2017	199	0.961	0.042	1.401	0.189	0.929	1.590	2.429
	2018	149	0.731	0.042	1.444	0.057	0.429	1.501	2.524
Sulfonamides	**2013**	26	0.154	0.042	0.069	0.042	0.050	0.111	1.680
	2014	19	0.069	0.042	0.049	0.042	0.057	0.091	0.111
	2015	2	0.042	0.042	-	0.042	0.042	0.042	0.042
	2016	17	0.290	0.042	0.444	0.091	0.091	0.535	0.535
	2017	18	0.513	0.042	0.628	0.091	0.134	0.719	1.863
	2018	50	0.601	0.042	1.187	0.057	0.113	1.244	2.144
Tetracyclines	**2016**	1	1.244	1.244	-	1.244	1.244	1.244	1.244
	2017	3	0.088	0.042	0.069	0.042	0.111	0.111	0.111

Antimicrobial class	year	Body weight in kg at start of treatment							
		number of records	mean	min	IQR	25% quantile	median	75% quantile	Max
	2018	10	0.264	0.042	0.069	0.042	0.042	0.111	1.082
Trimethoprim	**2013**	26	0.154	0.042	0.069	0.042	0.050	0.111	1.680
	2014	19	0.069	0.042	0.049	0.042	0.057	0.091	0.111
	2015	2	0.042	0.042	-	0.042	0.042	0.042	0.042
	2016	17	0.290	0.042	0.444	0.091	0.091	0.535	0.535
	2017	18	0.513	0.042	0.628	0.091	0.134	0.719	1.863
	2018	50	0.601	0.042	1.187	0.057	0.113	1.244	2.144