

DADD for pigs

DANMAP

2016

DANMAP 2016 - Use of antimicrobial agents and occurrence of antimicrobial resistance in bacteria from food animals, food and humans in Denmark



Criteria for the definition of defined animal daily doses (DADD) for pigs DANMAP 2016

DANMAP reports usage of antimicrobials in different animal populations and in veterinary and human sectors. To allow for quantitative comparison in the different populations, the quantity of antimicrobials used, their potency, their formulation, the route of administration, the age of the animals (where relevant) are accounted for by generating Defined animal daily doses (DADDs).

DADD is the average maintenance dose per day for a drug used for its main indication in the appropriate animal species. The DADD is not defined at product level but for each antimicrobial agent, administration route and animal species and when appropriate, also age group. DADD has been specifically defined for use in DANMAP and does not always completely match the “prescribed daily dose” or the recommended dosage in the Summaries of Product Characteristics (SPC).

The basic principles for the DADD are similar to the principles previously described for the ADD [DANMAP 2011, DANMAP 2012]. The DADD is based on the VetStat ADDs, but re-defined for each group of antimicrobial agents, adding adjustments for each combination of active compound, administration route, formulation, according to following principles:

1. A DADD group is defined for each antimicrobial agent by administration route, pharmaceutical form and animal species; and when appropriate also age group;
2. Minor inconsistencies have been corrected e.g. due to rounding of numbers;
3. Approved dosage for the most widely used antimicrobial products were given priority above dosage for products that are rarely used;
4. Approved dosage for older products within the group were maintained as the common DADD even if a new product is approved with a higher dosage;
5. If the dosage for a group with large variation in approved dosages of the products, the dosages provided by “The Veterinary Formulary” [British Veterinary Association 2005, 6th edition] were applied;
6. Dosages may vary within active compound and administration route, if different dosages have been approved for different age group/indication or formulation.

When principle 3 and 4 are conflicting, principle 5 is applied.

The following tables list the DADDs in mg active compound per kg body weight used for pigs in DANMAP 2016. For each product listed in the VetStat database, the specific amount (in gram, milliliter or tablets) that equals one DADD is calculated, taking into account differences in concentrations of active compound in different products. The total number of DADDs consumed in sows, weaners and finishers are calculated assuming an average body weight of 200 kg, 19 kg and 70 kg, respectively. In DANMAP the consumption of antimicrobial agents is assessed separately, and DADDs for products containing two or more active compounds, are attributed to the each active compounds proportionally to the concentrations in the specific products.

DADD for pigs - DANMAP Defined Animal Daily Dose

DANMAP 2016

ATCvet code	Active compound	Administration route	Pharmaceutical form	DADD mg kg
J01CA01	Ampicillin	Parenteralt	Injection	15.0
J01CE01	Benzylpenicillin	Parenteralt	Injection	8.9
QA07AA01	Neomycin	Peroralt	Soluble powder	14.0
			Solution	85.0
QA07AA06	Paromomycin	Peroralt	Soluble powder	22.8
QA07AA10	Colistin	Peroralt	Soluble powder	3.3
			Oral solution	3.3
QA07AA91	Gentamicinsulfat	Peroralt	Oral powder	2.0
QA07AA92	Apramycin	Peroralt	Premix	5.0
			Soluble powder	10.0
			Oral powder	5.0
QJ01AA02	Doxycyclin	Peroralt	Premix	12.5
			Soluble powder	12.5
			Oral solution	12.5
			Oral powder	12.5
QJ01AA03	Chlortetracyclin	Peroralt	Oral powder	20.0
QJ01AA06	Oxytetracyclin	Parenteralt	Injection	7.5
		Peroralt	Soluble powder	20.0
QJ01BA90	Florfenicol	Parenteralt	Injection	7.5
		Peroralt	Solution	10.0
			Oral solution	10.0
			Oral powder	10.0
QJ01BA99	Florfenicol	Parenteralt	Injection	7.5
QJ01CA01	Ampicillin	Parenteralt	Injection	15.0
QJ01CA04	Amoxicillin	Parenteralt	Injection	15.0
		Peroralt	Premix	15.0
			Soluble powder	17.5
			Oral powder	15.0
QJ01CE02	Phenoxymethylpenicillin	Peroralt	Soluble powder	10.0
QJ01CE09	Benzylpenicillinprocain	Parenteralt	Injection	15.0
QJ01CE90	Benzylpenicillin	Parenteralt	Injection	8.9
QJ01CR02	Amoxicillin	Parenteralt	Injection	7.0
		Peroralt	Soluble powder	20.0
	Clavulansyre	Parenteralt	Injection	1.8
		Peroralt	Soluble powder	5.0
QJ01DD90	Ceftiofur	Parenteralt	Injection	3.0
			Injection, prolonged	1.0
QJ01DE90	Cefquinom	Parenteralt	Injection	2.0

Continue next page

DADD for pigs - DANMAP Defined Animal Daily Dose - continued

DANMAP 2016

ATCvet code	Active compound	Administration route	Pharmaceutical form	DADD mg kg	
QJ01EW10	Sulfadiazin	Parenteralt	Injection	13.3	
		Peroralt	Premix	25.0	
			Oral powder	25.0	
	Trimethoprim	Parenteralt	Injection	2.7	
		Peroralt	Premix	5.0	
			Oral powder	5.0	
QJ01EW11	Sulfametoxazol	Peroralt	Oral solution	21.0	
	Trimethoprim	Peroralt	Oral solution	4.2	
QJ01EW13	Sulfadoxin	Parenteralt	Injection	13.4	
	Trimethoprim	Parenteralt	Injection	13.4	
QJ01EW14	Sulfatroxazol	Parenteralt	Injection	13.4	
	Trimethoprim	Parenteralt	Injection	2.7	
QJ01FA02	Spiramycin	Parenteralt	Injection	10.0	
QJ01FA90	Tylosin	Parenteralt	Injection	6.6	
		Peroralt	Premix	4.0	
			Soluble powder	8.3	
			Oral powder	4.0	
QJ01FA91	Tilmicosin	Peroralt	Premix	16.0	
			Oral solution	16.0	
			Oral powder	16.0	
QJ01FA92	Acetylisovaleryltylosin	Peroralt	Premix	4.3	
				Soluble powder	5.0
				Oral powder	4.3
QJ01FA94	Tulathromycin	Parenteralt	Injection	0.5	
QJ01FA95	Tulathromycin	Parenteralt	Injection	1.2	
QJ01FA96	Tildipirosin	Parenteralt	Injection	0.8	
QJ01FF02	Lincomycin	Parenteralt	Injection	10.0	
		Peroralt	Premix	5.0	
			Soluble powder	10.0	
QJ01FF52	Lincomycin	Parenteralt	Injection	7.5	
		Peroralt	Premix	2.5	
			Soluble powder	3.3	
			Oral powder	2.5	
	Spectinomycin	Parenteralt	Injection	15.0	
		Peroralt	Premix	2.5	
			Soluble powder	6.7	
			Oral powder	2.5	
QJ01GB03	Gentamicin	Peroralt	Solution	2.5	
QJ01MA90	Enrofloxacin	Parenteralt	Injection	3.7	
		Peroralt	Mixture	3.8	
QJ01MA93	Marbofloxacin	Parenteralt	Injection	2.0	
QJ01RA01	Benzylpenicillinprocain	Parenteralt	Injection	10.0	
		Dihydrostreptomycin	Parenteralt	Injection	10.0
QJ01RV01	Benzylpenicillinprocain	Parenteralt	Injection	10.0	
		Dihydrostreptomycin	Parenteralt	Injection	10.0
QJ01XQ01	Tiamulin	Parenteralt	Injection	10.9	
		Peroralt	Premix	5.0	
			Soluble powder	7.0	
			Oral solution	7.0	
			Oral powder	5.0	
QJ01XQ02	Valnemulin	Peroralt	Premix	3.5	
				Oral powder	3.5
QP51AG04	Sulfaclozin	Peroralt	Soluble powder	36.0	