

Table S2. Health status and antimicrobial use of the animals from which carbapenem-resistant isolates were derived

First author	Microorganism	Sample origin		Health status		Antimicrobial use history			CR mechanism
		Animal	n	Healthy	Sick	Carbapenem	Others	Others	
Li et al. [19]	ENB	Dogs	2	2	0	NR	NR	NR	NDM-5
Nigg et al. [20]	ENB	Dogs & cats	21	0	21	NO	PEN, BET/INHIB, QUIN, NIT, CEP, TET, SUL	NR	OXA-181
Wang et al. [21]	ENB	Dogs & cats	6	2	4	NR	NR	NR	NDM-5
Hong et al. [22]	ENB	Dogs & cats	2	0	2	MERO	QUIN, CEP, TET	NR	NDM-5
Valat et al. [23]	ENB	Dogs	1	0	1	NR	NR	NR	OXA-48
Reynolds et al. [24]	ENB	Dogs	1	0	1	NO	BET/INHIB, CEP, TET, QUIN	NR	NDM-5
Pulss et al. [25]	ENB	Dogs & cats	130	0	130	NO	CEP 2° y 3°, PEN, QUIN, BET/INHIB	NR	OXA-48
Brilhante et al. [26]	ENB	Dogs	1	0	1	NR	NR	NR	OXA-181
Yousfi et al. [27]	ENB	Dogs & cats	5	4	1	NR	NR	NR	OXA-48, NDM-5
Yousfi et al. [28]	ENB	Dogs & cats	6	6	0	NR	NR	NR	OXA-48
Stolle et al. [29]	ENB	Dogs	6	0	6	NO	PEN, BET/INHIB, QUIN, CEP, 3° TET	NR	OXA-48
Mairi et al. [30]	ENB	Dogs	1	NR	NR	NR	NR	NR	OXA-48
Cui et al. [31]	ENB	Dogs	1	0	1	NR	NR	NR	NDM-1
Hong et al. [32]	ENB	Dogs	4	0	4	MERO	CEP 1°, QUIN, BET/INHIB, NIT	NR	NDM-5
González-Torraiba et al. [33]	ENB	Dogs	1	0	1	NO	NO	NO	VIM-1
Grönthal et al. [34]	ENB	Dogs	2	0	2	NO	QUIN, CEP 1°, BET/INHIB, LIN	NR	NDM-5
Abraham et al. [35]	ENB	Cats	4	0	4	NO	TET	NR	IMP-4
Liu et al. [36]	ENB	Dogs & cats	NR	0	NR	NR	NR	NR	OXA-48
Schmiedel et al. [37]	ENB	Dogs & cats	NR	0	NR	NR	NR	NR	OXA-48
Brilhante et al. [38]	ENB	Dogs & cats	10	1	9	NR	NR	NR	OXA-48
Liu et al. [39]	ENB	Dogs	NR	0	NR	NR	NR	NR	OXA-48
Dazio et al. [40]	ENB	Dogs & cats	25	0	25	NO	NR	NR	NDM-5, OXA-48, OXA-181
Daniels et al. [41]	ENB	Dogs	2	0	2	NO	TET	NR	KPC-4
Sellera et al. [42]	ENB	Dogs	1	0	1	NR	NR	NR	KPC-2
Peterhans et al. [43]	ENB	Dogs	1	0	1	NR	NR	NR	NDM-5
Khalifa et al. [44]	ENB	Dogs & cats	7	0	7	NR	NR	NR	VIM-4, OXA-48, OXA-244
Hong et al. [45]	ENB	Dogs	4	NR	NR	NR	NR	NR	NDM-5
Pruthvishree et al. [46]	ENB	Dogs	1	0	1	NR	NR	NR	NDM-1
Shaheen et al. [47]	ENB	Dogs	6	0	6	NR	NR	NR	NDM-1
Melo et al. [48]	ENB	Dogs	1	0	1	NO	BET/INHIB	NR	OXA-48
Alba et al. [49]	ENB	Dogs	1	0	1	NR	NR	NR	NDM-5
Wang et al. [53]	GNFB	Dogs	1	1	0	NR	NR	NR	IMP-45
Fernandes et al. [54]	GNFB	Dogs	1	0	1	NR	NR	NR	VIM-2
Ewers et al. [55]	GNFB	Dogs & cats	3	0	3	NR	NR	NR	OXA-23
Hérivaux et al. [56]	GNFB	Dogs	2	2	0	NO	NR	NR	OXA-23

(Continued to the next page)

Table S2. Continued

First author	Microorganism	Sample origin		Health status		Antimicrobial use history			CR mechanism
		Animal	n	Healthy	Sick	Carbapenem	Others	Others	
Ewers et al. [57]	GNFB	Cats	1	0	1	NR	NR	NR	OXA-23
Pomba et al. [58]	GNFB	Cats	1	0	1	NO	BET/INHIB	BET/INHIB	OXA-23
Gentilini et al. [59]	GNFB	Dogs & cats	11	0	11	NO	BET/INHIB, TET, QUIN, NIT	BET/INHIB, TET, QUIN, NIT	NDM-1, OXA-23, oprD, L1
Tyson et al. [60]	ENB	Dogs	1	0	1	NR	NR	NR	NDM-5
Hyun et al. [61]	GNFB	Dogs	10	0	10	NR	NR	NR	VIM-2
Misic et al. [62]	GNFB	Dogs	1	0	1	NR	NR	NR	OXA-72
Klotz et al. [63]	GNFB	Dogs & cats	4	0	4	NR	NR	NR	OXA-58
Lupo et al. [64]	GNFB	Dogs & cats	7	0	7	NR	NR	NR	OXA-23
Kimura et al. [65]	GNFB	Dogs & cats	2	0	2	NO	PHOS	PHOS	IMP-1
Taj et al. [66]	GNFB	Cats	1	0	1	NO	BET/INHIB, QUIN	BET/INHIB, QUIN	OXA-23
Bandyopadhyay et al. [67]	ENB	Dogs	16	1	15	NR	NR	NR	NDM-5
Oh et al. [68]	ENB	Dogs	4	0	4	MERO	BET/INHIB, TET	BET/INHIB, TET	NDM-5
Cole et al. [69]	ENB	Dogs & cats	6	0	6	NO	PEN, CEP, AMN, NIT, BET/INHIB	PEN, CEP, AMN, NIT, BET/INHIB	NDM-5

ENB, enterobacteria; NR, not reported; NDM, New Delhi metallo-β-lactamase; NO, non-use; PEN, penicillins; BET/INHIB, beta-lactams/beta-lactam inhibitors; QUIN, quinolones; NIT, nitroimidazoles; CEP, cephalosporins; TET, tetracyclines; SUL, sulfonamides; OXA, oxacillin; MERO, meropenem; VIM, Verona integron-encoded metallo-β-lactamase; LIN, lincosamides; IMP, active-on-impipenem; KPC, Klebsiella pneumoniae carbapenemase; PHOS, phosphonic acids; AMN, aminoglycosides.