

1 **Supplementary digital content 2**

2 **Tables** shows individual values of cardiac index and urine output of the six piglets (P) that received intravenous (IV)
 3 vancomycin and in the six piglets that received nebulized vancomycin. Each piglet's number corresponds to piglet's number in
 4 figure 4 with the background color indicating the route of administration (Intravenous administration = blue; nebulization =
 5 green).

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Urine volume (ml)

Group	Piglet	Date	Weight (kg)	3h	6h	9h	12h	Urine Output (mL/Kg/h)
IV 12h	P1	1/10/2018	30.9	170	65	62	60	0.96
	P2	1/11/2018	33.0	202	370	555	295	3.59
	P3	1/18/2018	28.9	75	61	90	105	0.95
	P4	1/22/2018	25.1	79	110	70	140	1.32
	P5	1/29/2018	28.9	110	230	200	105	1.86
	P6	1/31/2018	24.9	90	120	70	90	1.24
Neb 12h	P1	2/19/2018	26.1	80	72	76	95	1.03
	P2	2/21/2018	26.6	80	75	50	140	1.08
	P3	2/28/2018	31.1	120	145	122	185	1.53
	P4	3/9/2018	23.0	100	138	135	94	1.69
	P5	3/6/2018	23.6	50	70	60	50	0.81
	P6	2/26/2018	18.0	71	162	235	131	2.77

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Cardiac Index
(L/min/m²)

Group	Piglet	Basal	T0 (after vancomycin)	T30 min	1h	2	3	4	5	6	7	8	9	10	11	12h
IV 12h	P1	4	3.6	4.2	3.1	2.9		3.7		4.4		3.6		3.6		3
	P2	3.9	3.7	3.7	3.7	3.7		3.3		4.3		3.3		3.2		4.3
	P3	4.1	4.3	4.1	5	5		5				3.4		3.3		2.7
	P4	4.7	4.6	3.7	3.6	2.7		5.1		4.8		5.2		4.8		4.6
	P5	4.1	4		3.7	3.6	3.6	3.8	3.9	4	3.9	3.9		3.7		3.3
	P6	3.9	5.1	4.4	4.4	5.4		5.6		5.5	5.6	6	5.5	5.1	4.4	4.3
Neb12h	P1	3.5	3.5	4.2	4.3	4.4	4.4	3.7	3.2	3.3	3.3	2.9	3.4	3.2	3.1	3.1
	P2	3.6	3.9	3.6	3.6	3.1	3.1	3.1	4.1	3.6	2.9	2.6	2.7	2.8	2.7	2.3
	P3	4.7	4.8	5.1	5	3.9	3.8	3.9	4.1	3.6	3.2	3.1	3.3	3.3	2.9	3.0
	P4	4.2	4.9	4.8	4.6	4.6	4.4	4.3	4.9	4.8	3.5	3.2	3.1	3.4	3.2	3.4
	P5	3.7	3.3	3.3	3.6	3.1	2.2	3.3	3.0	3.1		2.9	3.3	3.3	3.1	2.9
	P6	4.9	4.7	5.1	4.2	4.2	3.7	3.7	5.5	5.7	4.6	3.3	2.8	3	3	3

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