

Table S1 Meropenem probabilities of target attainment for different CG-CLCR, uric acid values, dosage regimens and MICs with a duration of 0.5h^a.

Dose (mg) /q8h (Duration 0.5h)	UA (μ mol/L)	CG-CLCR (ml/min)	PTA (%)											
			MIC=1mg/L			MIC=2mg/L			MIC=4mg/L			MIC=8mg/L		
			A	B	C	A	B	C	A	B	C	A	B	C
500	40	30	97.33	38.33	10.33	90.33	21.00	3.00	72.00	9.67	0.00	31.00	3.00	0.00
500	40	60	81.33	10.00	1.00	61.67	4.33	0.00	32.00	1.00	0.00	9.00	0.00	0.00
500	40	120	48.00	1.00	0.00	27.67	0.00	0.00	8.67	0.00	0.00	0.67	0.00	0.00
500	400	30	100.00	99.00	93.33	100.00	98.67	78.33	99.67	92.00	44.00	96.00	74.00	4.67
500	400	60	100.00	98.67	77.33	100.00	92.00	46.67	98.67	75.67	13.00	86.00	45.33	1.33
500	400	120	99.33	90.00	45.00	97.33	71.00	12.33	89.00	44.33	1.33	56.67	11.67	0.00
500	800	30	100.00	100.00	99.00	100.00	99.00	87.67	99.67	97.33	31.67	99.67	83.67	0.00
500	800	60	100.00	99.33	90.67	100.00	97.00	56.67	99.67	88.00	7.33	97.00	54.67	0.00
500	800	120	100.00	96.33	58.67	100.00	84.00	16.00	99.00	56.00	0.67	77.67	15.67	0.00
1000	40	30	99.00	50.67	21.33	97.33	37.67	10.33	90.33	21.00	3.00	72.00	10.33	0.00
1000	40	60	91.67	20.67	4.33	81.33	10.33	1.00	61.67	4.00	0.00	32.00	1.00	0.00
1000	40	120	65.33	4.33	0.00	48.00	1.00	0.00	27.67	0.00	0.00	8.67	0.00	0.00
1000	400	30	100.00	100.00	99.33	100.00	99.33	93.33	100.00	98.00	78.33	99.67	91.33	44.00
1000	400	60	100.00	99.67	93.67	100.00	98.00	77.33	100.00	90.67	46.67	98.67	75.00	13.00
1000	400	120	100.00	96.67	73.67	99.33	90.67	45.00	97.33	72.00	12.33	89.00	43.00	1.33
1000	800	30	100.00	100.00	99.67	100.00	100.00	99.00	100.00	98.33	87.67	99.67	97.00	31.67
1000	800	60	100.00	100.00	99.33	100.00	99.00	90.67	100.00	96.67	56.67	99.67	88.33	7.33
1000	800	120	100.00	98.67	86.33	100.00	97.00	58.67	100.00	82.67	16.00	90.33	21.00	3.00
2000	40	30	99.67	67.00	39.00	99.00	50.33	21.33	97.33	37.00	10.33	90.33	21.33	3.00
2000	40	60	97.67	29.33	10.67	91.67	20.00	4.33	81.33	10.67	1.00	61.67	4.00	0.00
2000	40	120	79.00	7.67	1.00	65.33	4.67	0.00	48.00	1.00	0.00	27.67	0.00	0.00

2000	400	30	100.00	100.00	99.67	100.00	100.00	99.33	100.00	99.00	93.33	100.00	98.00	78.33
2000	400	60	100.00	100.00	99.33	100.00	99.67	93.67	100.00	98.67	77.33	100.00	91.33	46.67
2000	400	120	100.00	99.67	91.67	100.00	97.00	73.67	99.33	90.67	45.00	97.33	71.33	12.33
2000	800	30	100.00	100.00	100.00	100.00	100.00	99.67	100.00	100.00	99.00	100.00	99.67	87.67
2000	800	60	100.00	100.00	99.67	100.00	100.00	99.33	100.00	99.67	90.67	100.00	97.67	56.67
2000	800	120	100.00	100.00	99.00	100.00	99.33	86.33	100.00	98.00	58.67	100.00	84.33	16.00

^a The target was calculated for the drug concentration to remain above the MIC for 40%, 100% and 4MIC for 100%, respectively. The meropenem target MIC was chosen according to the MIC value of our hospital.

q8h, three times-daily dosing; UA, uric acid; CG-CLCR, creatinine clearance calculated using the Cockcroft-Gault equation; MIC, Minimum inhibitory concentration; PTA, probabilities of target attainment.