

Table 1: Simulated median AUC/MIC for total and unbound concentrations [90 % prediction interval]

		IV Low dose (10 mg/kg), total concentration		
		<i>P. aeruginosa</i>	<i>Enterobacteriaceae</i>	<i>S. aureus</i>
KF = 0.5	0.5y	146 [73 – 282]	1213 [606 – 2347]	73 [36 – 141]
	1.5y	154 [71 – 298]	1285 [589 – 2480]	77 [35 – 149]
	2.5y	161 [74 – 314]	1344 [617 – 2728]	81 [37 – 164]
	6.5y	182 [84 – 346]	1517 [702 – 2880]	91 [42 – 173]
	12.5y	188 [87 – 420]	1567 [728 – 3497]	94 [44 – 210]
KF = 1	0.5y	110 [56 – 214]	915 [467 – 1783]	55 [28 – 107]
	1.5y	116 [57 – 222]	968 [475 – 1846]	58 [29 – 111]
	2.5y	121 [59 – 238]	1006 [492 – 1980]	60 [30 - 119]
	6.5y	135 [70 – 264]	1128 [586 – 2201]	68 [35 – 132]
	12.5y	144 [73 – 312]	1203 [607 – 2603]	72 [36 – 156]
KF = 1.5	0.5y	90 [45 – 180]	750 [378 – 1500]	45 [23 – 90]
	1.5y	93 [47 – 185]	777 [394 – 1541]	47 [24 – 92]
	2.5y	98 [49 – 194]	818 [405 – 1620]	49 [24 – 97]
	6.5y	111 [58 – 214]	929 [483 – 1783]	56 [29 – 107]

	12.5y	120 [60 – 249]	1001 [504 - 2071]	60 [30 – 124]
		IV High dose (15 mg/kg), total concentration		
		<i>P. aeruginosa</i>	<i>Enterobacteriae</i>	<i>S. aureus</i>
KF = 0.5	0.5y	216 [106 – 421]	1800 [880 – 3507]	108 [53 – 210]
	1.5y	230 [105 – 456]	1913 [871 – 3798]	115 [52 – 228]
	2.5y	246 [115 – 508]	2054 [955 – 4233]	123 [57 – 254]
	6.5y	280 [132 – 550]	2333 [1098 – 4585]	140 [66 – 275]
	12.5y	305 [142 – 660]	2541 [1184 – 5503]	152 [71 – 330]
KF = 1	0.5y	166 [86 – 317]	1385 [717 – 2643]	83 [43 – 159]
	1.5y	173 [86 – 333]	1443 [719 – 2779]	87 [43 – 167]
	2.5y	183 [91 – 366]	1524 [756 – 3051]	91 [45 – 183]
	6.5y	212 [110 – 397]	1763 [914 – 3308]	106 [55 – 198]
	12.5y	234 [116 – 483]	1946 [963 – 4028]	117 [58 – 242]
KF = 1.5	0.5y	133 [66 – 263]	1110 [552 – 2195]	67 [33 – 132]
	1.5y	140 [69 – 276]	1167 [578 – 2299]	70 [35 – 138]
	2.5y	151 [75 – 310]	1254 [621 – 2583]	75 [37 – 155]
	6.5y	170 [90 – 327]	1414 [746 – 2725]	85 [45 – 164]

	12.5y	189 [96 – 399]	1574 [803 – 3322]	94 [48 – 199]
		PO Low dose (15 mg/kg), total concentration		
		<i>P. aeruginosa</i>	<i>Enterobacteriae</i>	<i>S. aureus</i>
KF = 0.5	0.5y	119 [57 – 242]	991 [475 – 2021]	59 [28 – 121]
	1.5y	129 [59 – 254]	1072 [493 – 2120]	64 [30 – 127]
	2.5y	130 [62 – 260]	1084 [517 – 2169]	65 [31 – 130]
	6.5y	142 [67 – 306]	1184 [561 – 2549]	71 [34 – 153]
	12.5y	170 [75 – 331]	1414 [626 – 2757]	85 [38 – 165]
KF = 1	0.5y	88 [43 – 178]	734 [362 – 1487]	44 [22 – 89]
	1.5y	93 [48 – 183]	772 [398 – 1521]	46 [24 – 91]
	2.5y	96 [47 – 191]	803 [395 – 1594]	48 [24 – 96]
	6.5y	106 [54 – 226]	887 [446 – 1886]	53 [27 – 113]
	12.5y	126 [61 – 244]	1053 [510 -2030]	63 [31 – 122]
KF = 1.5	0.5y	70 [35 – 142]	585 [290 – 1180]	35 [17 – 71]
	1.5y	76 [38 – 147]	630 [315 – 1225]	38 [19 – 74]
	2.5y	77 [36 – 154]	645 [301 – 1287]	39 [18 – 77]
	6.5y	86 [43 – 180]	716 [358 – 1498]	43 [22 – 90]

	12.5y	102 [50 – 202]	850 [420 – 1679]	51 [25 – 101]
		PO High dose (20 mg/kg), total concentration		
		<i>P. aeruginosa</i>	<i>Enterobacteriae</i>	<i>S. aureus</i>
KF = 0.5	0.5y	157 [77 – 325]	1306 [642 – 2712]	78 [39 – 163]
	1.5y	170 [82 – 340]	1416 [684 – 2837]	85 [41 – 170]
	2.5y	174 [81 – 345]	1451 [675 – 2872]	87 [41 – 172]
	6.5y	196 [94 – 420]	1630 [784 – 3503]	98 [47 – 210]
	12.5y	240 [109 – 464]	2004 [906 – 3869]	120 [54 – 232]
KF = 1	0.5y	117 [59 – 232]	971 [488 – 1931]	58 [29 – 116]
	1.5y	125 [63 – 246]	1043 [523 – 2048]	63 [31 – 123]
	2.5y	128 [63 – 253]	1070 [527 – 2107]	64 [32 – 126]
	6.5y	147 [73 – 307]	1225 [610 – 2558]	73 [37 – 153]
	12.5y	177 [86 – 345]	1479 [717 – 2874]	89 [43 – 172]
KF = 1.5	0.5y	93 [46 – 188]	775 [385 – 1566]	46 [23 – 94]
	1.5y	100 [49 – 194]	837 [407 – 1619]	50 [24 – 97]
	2.5y	104 [50 – 202]	868 [416 – 1687]	52 [25 – 101]
	6.5y	118 [59 – 248]	983 [488 – 2066]	59 [29 – 124]
	12.5y	142 [71 – 278]	1187 [588 – 2313]	71 [35 – 139]

IV Low dose (10 mg/kg), unbound concentration				
		<i>P. aeruginosa</i>	<i>Enterobacteriaceae</i>	<i>S. aureus</i>
KF = 0.5	0.5y	101 [50 – 201]	838 [419 – 1677]	50 [25 – 101]
	1.5y	107 [49 – 206]	890 [405 – 1715]	53 [24 – 103]
	2.5y	104 [51 – 208]	867 [422 – 1736]	52 [25 – 104]
	6.5y	124 [58 – 248]	1030 [481 – 2066]	62 [29 – 124]
	12.5y	132 [63 – 281]	1097 [523 – 2338]	66 [31 – 140]
KF = 1	0.5y	75 [40 – 155]	628 [335 – 1293]	38 [20 – 78]
	1.5y	79 [37 – 155]	662 [312 – 662]	40 [19 – 77]
	2.5y	79 [40 – 156]	657 [332 – 1301]	39 [20 – 78]
	6.5y	94 [47 – 181]	787 [390 – 1511]	47 [23 – 91]
	12.5y	101 [49 – 203]	845 [404 – 1691]	51 [24 – 101]
KF = 1.5	0.5y	62 [32 – 125]	514 [267 – 1043]	31 [16 – 63]
	1.5y	96 [47 – 195]	802 [388 – 1626]	48 [23 – 98]
	2.5y	64 [33 – 129]	535 [272 – 1071]	32 [16 – 64]
	6.5y	77 [39 – 151]	639 [325 – 1262]	38 [20 – 76]
	12.5y	83 [40 – 166]	692 [334 – 1380]	41 [20 – 83]
IV High dose (15 mg/kg), unbound concentration				

		<i>P. aeruginosa</i>	<i>Enterobacteriae</i>	<i>S. aureus</i>
KF = 0.5	0.5y	150 [76 – 302]	1248 [635 – 2513]	75 [38 – 151]
	1.5y	159 [73 – 309]	1324 [604 – 2576]	79 [36 – 155]
	2.5y	157 [77 – 319]	1307 [644 – 2657]	78 [39 – 159]
	6.5y	191 [88 – 374]	1593 [733 – 3117]	96 [44 – 187]
	12.5y	216 [97 – 448]	1799 [808 – 3737]	108 [48 – 224]
KF = 1	0.5y	113 [59 – 227]	942 [494 – 1893]	57 [30 – 114]
	1.5y	119 [58 – 235]	992 [482 – 1959]	60 [29 – 118]
	2.5y	119 [61 – 238]	989 [509 – 1980]	59 [31 – 119]
	6.5y	145 [72 – 279]	1208 [603 – 2327]	72 [36 – 140]
	12.5y	163 [78 – 324]	1355 [654 – 2697]	81 [39 – 162]
KF = 1.5	0.5y	91 [48 – 189]	762 [402 – 1579]	46 [24 – 95]
	1.5y	64 [31 – 133]	534 [258 – 1111]	32 [16 – 67]
	2.5y	97 [50 – 197]	811 [417 – 1638]	49 [25 – 98]
	6.5y	118 [59 – 230]	983 [492 – 1916]	59 [30 – 115]
	12.5y	135 [65 – 283]	1121 [542 – 2357]	67 [33 – 141]
PO Low dose (15 mg/kg), unbound concentration				

		<i>P. aeruginosa</i>	<i>Enterobacteriae</i>	<i>S. aureus</i>
KF = 0.5	0.5y	78 [36 – 159]	649 [304 – 1322]	39 [18 – 79]
	1.5y	85 [39 – 178]	705 [324 – 1481]	42 [19 – 89]
	2.5y	87 [39 – 175]	722 [326 – 1458]	43 [20 – 87]
	6.5y	95 [45 – 191]	794 [374 – 1592]	48 [22 – 95]
	12.5y	108 [50 – 213]	899 [419 – 1775]	54 [25 – 107]
KF = 1	0.5y	58 [29 – 111]	486 [238 – 929]	29 [14 – 56]
	1.5y	62 [30 – 129]	517 [247 – 1075]	31 [15 – 64]
	2.5y	65 [32 – 129]	544 [264 – 1072]	33 [16 – 64]
	6.5y	71 [36 – 136]	592 [297 – 1130]	35 [18 – 68]
	12.5y	82 [40 – 157]	682 [335 – 1307]	41 [20 – 78]
KF = 1.5	0.5y	47 [22 – 89]	389 [182 – 739]	23 [11 – 44]
	1.5y	50 [25 – 103]	415 [205 – 856]	25 [12 – 51]
	2.5y	53 [25 – 102]	444 [210 – 853]	27 [13 – 51]
	6.5y	57 [28 – 110]	476 [235 – 915]	29 [14 – 55]
	12.5y	66 [33 – 127]	549 [276 – 1056]	33 [17 – 63]
PO High dose (20 mg/kg), unbound concentration				

		<i>P. aeruginosa</i>	<i>Enterobacteriae</i>	<i>S. aureus</i>
KF = 0.5	0.5y	104 [48 – 207]	866 [402 – 1728]	52 [24 – 104]
	1.5y	112 [53 – 231]	937 [444 – 1928]	56 [27 – 116]
	2.5y	117 [52 – 233]	978 [435 – 1940]	59 [26 – 116]
	6.5y	130 [63 – 256]	1080 [529 – 2129]	65 [32 – 128]
	12.5y	154 [72 – 312]	1284 [603 – 2597]	77 [36 – 156]
KF = 1	0.5y	77 [38 – 149]	645 [317 – 1238]	39 [19 – 74]
	1.5y	83 [40 – 171]	691 [332 – 1426]	41 [20 – 86]
	2.5y	88 [41 – 171]	733 [340 – 1425]	44 [20 – 86]
	6.5y	97 [50 – 187]	805 [414 – 1561]	48 [25 – 94]
	12.5y	116 [58 – 223]	970 [487 – 1860]	58 [29 – 112]
KF = 1.5	0.5y	62 [30 – 119]	515 [250 – 994]	31 [15 – 60]
	1.5y	66 [33 – 139]	552 [272 – 1161]	33 [16 – 70]
	2.5y	71 [33 – 137]	592 [277 – 1141]	36 [17 – 68]
	6.5y	77 [39 – 150]	641 [325 – 1253]	38 [20 – 75]
	12.5y	94 [47 – 180]	786 [395 – 1498]	47 [24 – 90]