

Supplementary table 1: Summary of pathogen distribution in the external validation cohort (NeoOBS-SA study), based on all culture positive hospital acquired infection episodes (n=186)

Organism, n (%)	Blood culture ¹		Blood culture and/or CSF		Total	
Gram-negative organisms	92	(49.5)	8	(4.3)	100	(53.8)
<i>Klebsiella spp.</i>	40	(21.5)	1	(0.5)	41	(22.0)
<i>A. baumannii</i>	34	(18.3)	6	(3.2)	40	(21.5)
<i>S. marcescens</i>	10	(5.4)			10	(5.4)
<i>E. coli</i>	5	(2.7)	1	(0.5)	6	(3.2)
Other ²	3	(1.6)			3	(1.6)
Gram-positive organisms	41	(22.0)			41	(22.0)
<i>S. aureus</i>	17	(9.1)			17	(9.1)
<i>Enterococcus spp.</i>	9	(4.8)			9	(4.8)
CoNS	12	(6.5)			12	(6.5)
<i>S. agalactiae</i>	3	(1.6)			3	(1.6)
Fungi	23	(12.4)			23	(12.4)
<i>C. albicans</i>	8	(4.3)			8	(4.3)
<i>C. parapsilosis</i>	8	(4.3)			8	(4.3)
<i>C. auris</i>	4	(2.2)			4	(2.2)
<i>Other Candida species</i>	3	(1.6)			3	(1.6)
Polymicrobial	21	(11.3)	1	(0.5)	22	(11.8)
Total	177	(95.2)	9	(4.8)	186	(100.0)

¹This included 3 central line associated blood stream infections (CLABSI): *S. marcescens* 1, *C. albicans* 1, polymicrobial 1.

² Other included *E. cloacae* 1, *Citrobacter freundii* 2