

Supplementary materials

Table 1. Microbiological patterns of the 4 isolated micro-organisms.

POSITIVE CULTURE	N 75 (14%)
1° Positive Culture Sample	74 (99)
1° MDR	35 (47)
2° Positive Culture Sample	55 (100)
2° MDR	29 (53)
3° Positive Culture Sample	34 (89)
3° MDR	5 (13)
4° Positive Culture Sample	12 (100)
4° MDR	2 (17)

Table 2. Absolute frequency of different microbial species isolated in BRONCHO ASPIRATE coltures.

Total positive culture samples		149
Total number of types of microorganisms		22
Type of microorganism		
Genus	Species	
Acinetobacter	baumannii	32, 21.5
Candida	glabrata	2, 1.3
	krusei	1, 0.7
	parapsilosis	2, 1.3
Citrobacter	freundii	4, 2.7
	koseri	1, 0.7
Enterobacter	aerogenes	1, 0.7
	cloacae	4, 2.7
Enterococcus	faecalis	3, 2.0
Escherichia	coli	12, 8.1
Klebsiella	oxytoca	9, 6.0
	pneumoniae ssp	10, 6.7
	morganii	1, 0.7
Pseudomonas	aeruginosa	19, 12.8
Raoultella	ornithinolytica	1, 0.7
Serratia	marcescens	8, 5.4
Staphylococcus	aureus	26, 17.4
	epidermidis	1, 0.7
Stenotrophomonas	maltophilia	6, 4.0

Streptococcus	agalactiae	2, 1.3
	pneumoniae	3, 2.0
	pyogenes	1, 0.7

Table 2. Absolute frequency of microbial species isolated in broncho-aspirate cultures.

Table 3. Absolute frequency of microbial species isolated in blood cultures.

		N, %
Total positive culture samples		46
Total number of types of microorganisms		10
Type of microorganism		
Genus	Species	
Acinetobacter	baumannii	8, 17.4
Enterococcus	faecalis	7, 15.2
Escherichia	coli	2, 4.3
Klebsiella	pneumoniae ssp	3, 6.5
Pseudomonas	aeruginosa	3, 6.5
Staphylococcus	aureus	1, 2.2
	capitis	1, 2.2
	epidermidis	17, 37.0
	haemolyticus	2, 4.3
	hominis	2, 4.3

Table 4. Absolute frequency of microbial species isolated in urine cultures.

		N, %
Total positive culture samples		27
Total number of types of microorganisms		8
Type of microorganism		
Genus	Species	
Acinetobacter	baumannii	7, 25.9
Enterobacter	cloacae	1, 3.7
Enterococcus	faecalis	2, 7.4
Escherichia	coli	5, 18.5
	pneumoniae	3, 11.1
Klebsiella	ssp	

Pseudomonas	aeruginosa	5, 18.5
Serratia	marcescens	2, 7.4
Staphylococcus	aureus	2, 7.4

Table 5. Absolute frequency of different microbial species isolated in WOUND cultures.

		N, %
Total positive culture samples		17
Total number of types of microorganisms		13
Type of microorganism		
Genus	Species	
Acinetobacter	baumannii	2, 11.8
Candida	parapsilosis	1, 5.9
Citrobacter	amalonaticus	1, 5.9
Citrobacter	koseri	1, 5.9
Enterobacter	cloacae	2, 11.8
Enterococcus	faecalis	1, 5.9
Enterococcus	hirae	1, 5.9
Escherichia	coli	1, 5.9
Pseudomonas	aeruginosa	4, 23.5
Serratia	marcescens	1, 5.9
Staphylococcus	aureus	1, 5.9
Stenotrophomonas	maltophilia	1, 5.9

Table 6. Cumulative antibiotic resistance.

	N (%)
Total isolated microorganisms	234
Class of antibiotics	

Aminoglycosides	103 (44)
Beta-Lactams	144 (61.5)
Carbapenems	95 (40.6)
Cephalosporins	110 (47)
Monobactams	38 (16.2)
Penicillins	167 (71.4)
Fluoroquinolones	131 (56)
Glycopeptides	7 (3)
Macrolides	32 (13.7)
Oxazolidinones	10 (4.3)
Polypeptides	19 (8.1)
Rifamycins	18 (7.7)
Sulphonamides	0
Tetracyclines	27 (11.5)
Chloramphenicol	8 (3.4)
Clindamycin	28 (12)
Daptomycin	0
Fosfomycin	68 (29.1)
Lefamulin	0
Metronidazole	0
Mupirocin	2 (0.9)
Nitrofurantoin	6 (2.6)
Tigecycline	4 (1.7)
Trimethoprim-Sulfamethoxazole	80 (34.2)
Polyenes	0
Azoles	3 (1.3)
Echinocandins	0
Allylamines	0
Morpholines	0
Antimetabolites	1 (0.4)
Ciclopirox	0
Tolnaftate	0

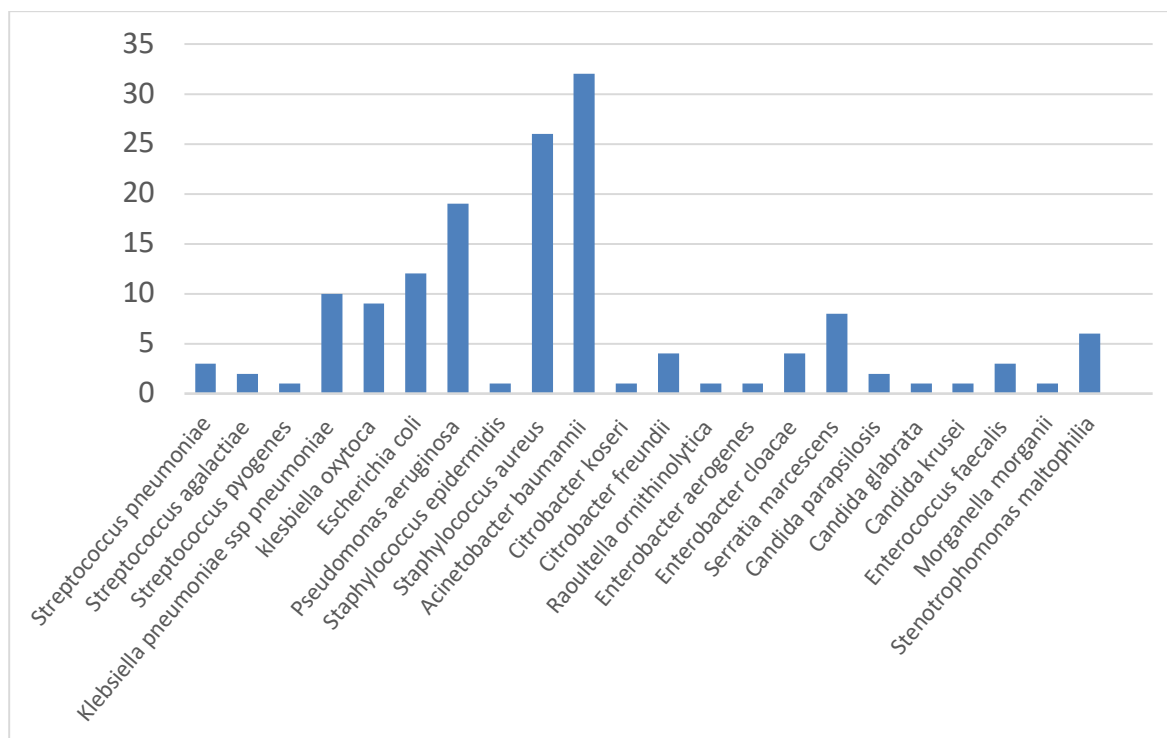


Figure 1. Distribution and frequency of broncho aspirate cultures microorganisms.

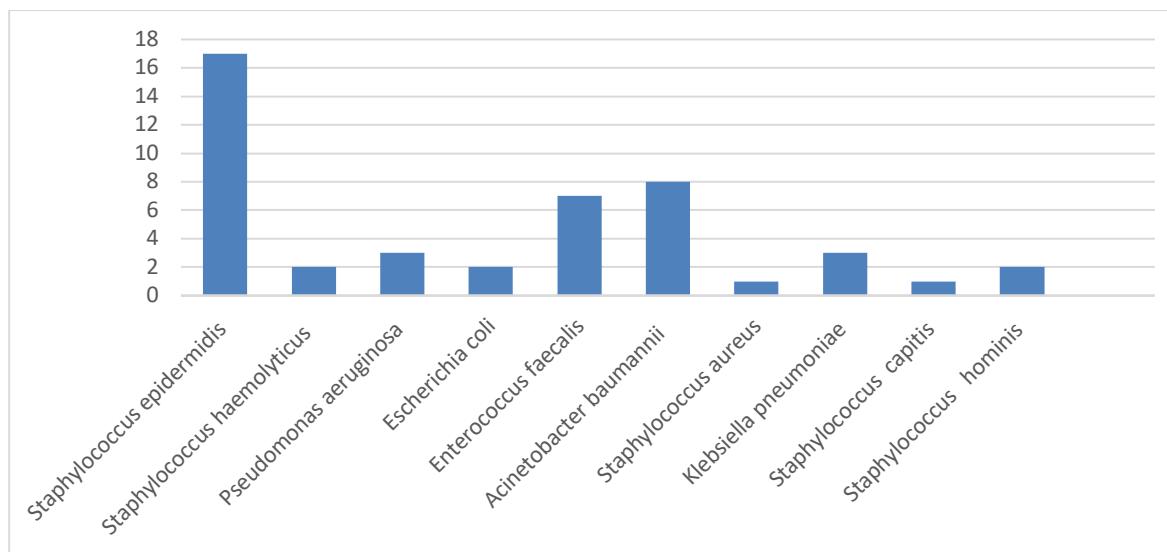


Figure 2. Distribution and frequency of blood cultures microorganisms.

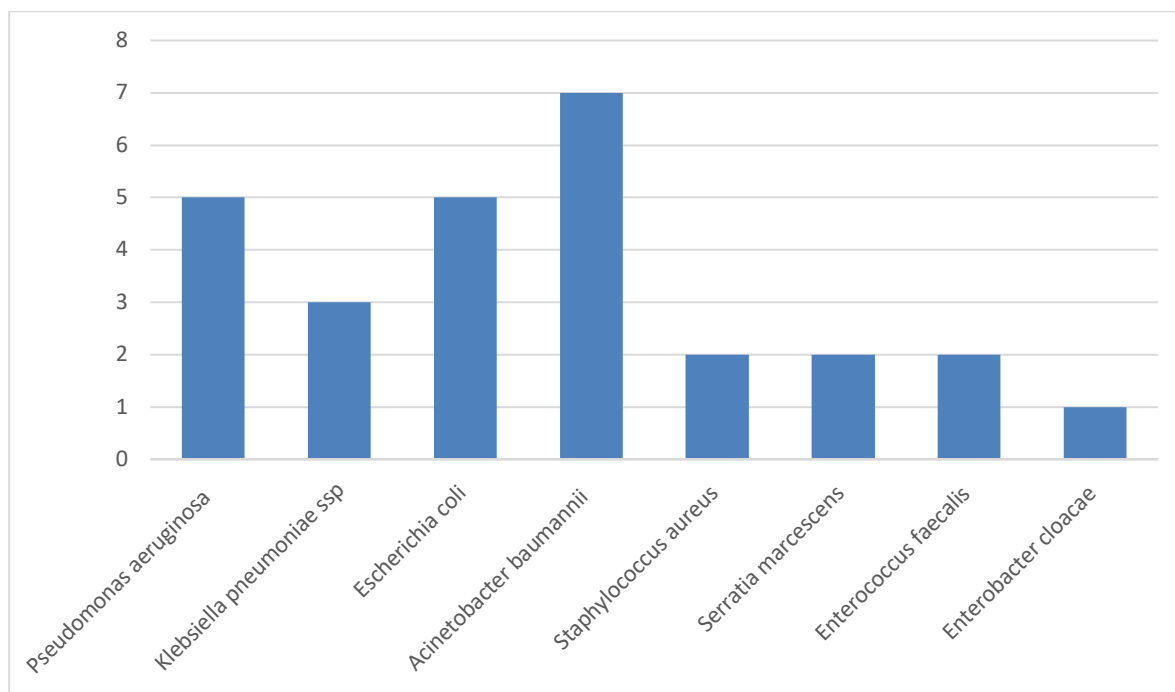


Figure 3. Distribution and frequency of urine cultures microorganisms.

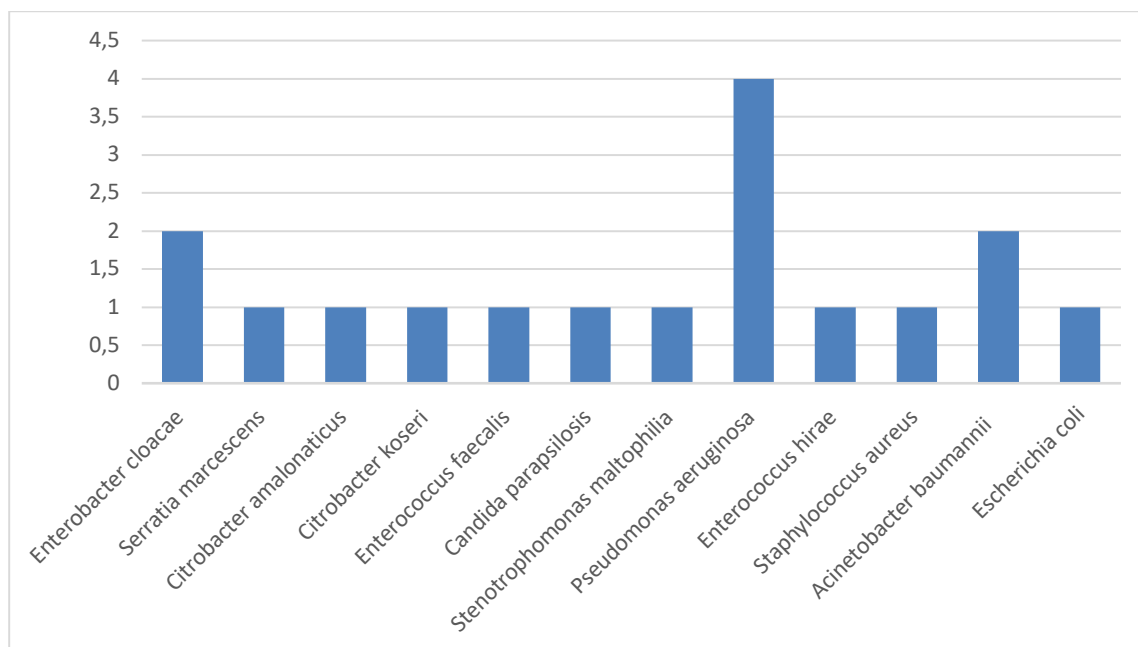


Figure 4. Distribution and frequency of wound cultures micro-organisms.

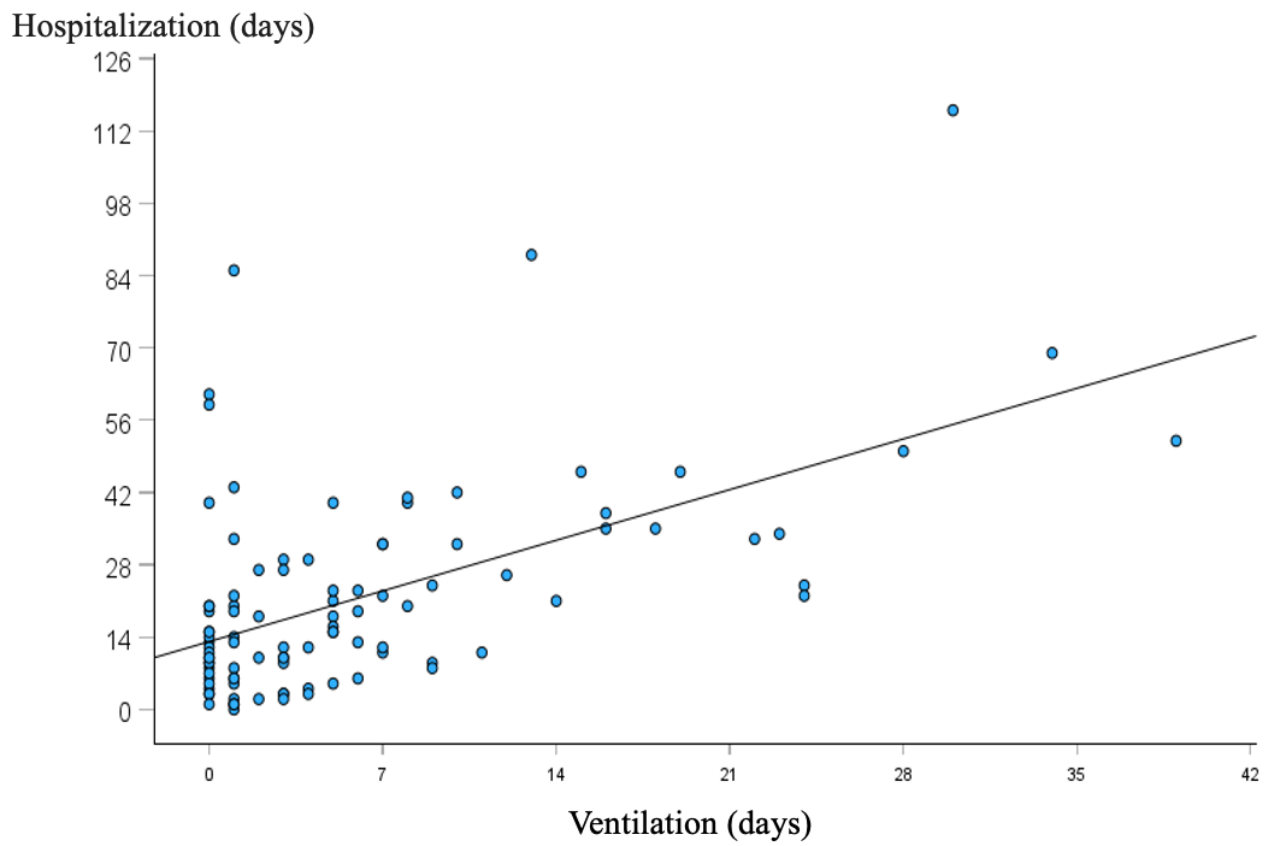


Figure 5. Direct proportional relationship between days of ventilation and days of hospitalization.