Characteristics	Characteristics	Readmission, $N = 243$			<b>Dead, N = 1,431</b>			Alive, $N = 2,301$		
Mean = SD			acquired BSI	associated BSI		acquired BSI	associated BSI		acquired BSI	associated BSI
Female		FC + 17	F0 + 24	62 + 24	E0 + 22	FC + 22	F2 + 24	40 . 25	47 . 25	40 + 27
Female   18 (46%)   46 (39%)   50 (44%)   416 (29%)   53 (50%)   777 (44%)   78 (41%)   216 (22%)   476 (42%)   224 (49%)   Malce   10 (29%)   459 (89%)   650 (789%)   225 (31%)   10 (29%)   10 (29%)   459 (89%)   650 (789%)   225 (31%)   10 (29%)   1		56 ± 17	$50 \pm 24$	62 ± 24	58 ± 22	56 ± 22	52 ± 24	48 ± 25	4/ ± 25	49 ± 2/
Marker   16   16   16   16   16   16   16   1		10 (100/)	40 (200()	26 (440/)	100 (220()	255 (440/)	<b>50</b> (410/)	24.6 (220()	456 (400/)	D.44 (400/)
Resism   Resism   Resism   Start   S										
Eastern Mediternacean Region   5 (3%)   18 (15%)   20 (24%)   50 (8.2%)   31 (4.9%)   20 (17%)   46 (6.8%)   68 (6.0%)   25 (3.3%)		21 (54%)	/4 (61%)	46 (56%)	415 (68%)	353 (56%)	110 (59%)	459 (68%)	65/ (58%)	252 (51%)
South-Last Asian Region   12 (39%)   42 (49%)   29 (49%)   305 (59%)   309 (69%)   99 (51%)   161 (42%)   426 (78%)   230 (47%)   Western Parcifer Region   12 (88%)   62 (51%)   34 (41%)   258 (42%)   29 (46%)   73 (39%)   465 (69%)   635 (57%)   237 (43%)   World Bank income status		E (4.20/)	10 (150/)	20 (240/)	E0 (0 D0()	24 (4 00/)	20 (110/)	46 (6 00/)	CO (C OO()	26 (5 20/)
Word Dank Income Status										
World Hank income status						, ,				
High income		11 (28%)	62 (51%)	34 (41%)	258 (42%)	290 (46%)	73 (39%)	465 (69%)	645 (5/%)	237 (48%)
Upper middle income		0 (= 10()	0= (000()	2.4 (2.00())	2.4.(2.00/)	C4 (0 =0()	20 (4 = 0 ()	= 4 (0.00()	101 (100()	100 (000()
Low income										
Primary admission reason	11					` /				
Primary admission reason										
Cardiovascular condition		0 (0%)	1 (0.8%)	0 (0%)	34 (5.5%)	17 (2.7%)	29 (15%)	23 (3.4%)	63 (5.6%)	74 (15%)
Connective tissue diseases										
Dematological diseases								` /		
Endocrine										
Gastrointestinal disorder   3,7,7%   10 (8,2%)   7,63,%   45,73,3%   50,29,8%   23 (12%)   29 (43,3%   133 (12%)   85 (17%)										
Genitourinary disorder										
Gynaecological disorder										
Hematological disease	Genitourinary disorder	0 (0%)			2 (0.3%)			2 (0.3%)	6 (0.5%)	
Infectious disease		0 (0%)	1 (0.8%)	0 (0%)		4 (0.6%)	1 (0.5%)	3 (0.4%)	10 (0.9%)	4 (0.8%)
Neurological disease	Haematological disease	0 (0%)	7 (5.7%)	2 (2.4%)	6 (1.0%)	15 (2.4%)	4 (2.1%)	3 (0.4%)	53 (4.7%)	9 (1.8%)
Conclogic disorder	Infectious disease	4 (10%)	18 (15%)	15 (18%)	111 (18%)	96 (15%)	41 (22%)	123 (18%)	137 (12%)	152 (31%)
Orthopaedic condition 0 (0%) 2 (1.6%) 2 (2.4%) 7 (1.1%) 16 (2.5%) 0 (0%) 9 (1.3%) 31 (2.7%) 10 (2.0%) Pulmonary disease 2 (5.1%) 6 (4.9%) 7 (8.5%) 172 (28%) 97 (1.5%) 26 (14%) 135 (20%) 98 (8.6%) 44 (8.9%) Renal disorder 5 (13%) 11 (9.0%) 5 (6.1%) 13 (2.1%) 34 (5.4%) 12 (6.4%) 91 (1.3%) 57 (5.0%) 36 (7.3%) Trauma 9 (23%) 2 (1.6%) 11 (1.2%) 35 (5.7%) 18 (2.9%) 4 (2.1%) 97 (14%) 33 (4.7%) 53 (4.7%) 5 (1.0%) Orthers 3 (7.7%) 20 (16%) 21 (26%) 62 (10%) 87 (14%) 23 (12%) 71 (11%) 30 (3.3%) 3 (0.6%) Orthers 3 (7.7%) 20 (16%) 21 (26%) 62 (10%) 87 (14%) 23 (12%) 71 (11%) 169 (15%) 46 (9.3%) Severity score of disease*  Median [IQR] 0 [0,1] 1 [0,2] 1 [0,2] 0 [0,2] 1 [0,2] 1 [0,2] 0 [0,1] 0 [0,2] 1 [0,2] 1 [0,2] Severity score of disease*  Median [IQR] 8 [4,8] 4 [0,4] 4 [0,4] 8 [8,12] 8 [4,8] 8 [4,8] 8 [4,8] 4 [4,8] 4 [4,8] 4 [4,8] 8 [4,8] 4 [4,8] 8 [4,8] 4 [4,8] 8 [4,	Neurological disease	11 (28%)	8 (6.6%)	2 (2.4%)	82 (13%)	47 (7.5%)	20 (11%)	134 (20%)	107 (9.4%)	17 (3.4%)
Orthopaedic condition 0 (0%) 2 (1.6%) 2 (2.4%) 7 (1.1%) 16 (2.5%) 0 (0%) 9 (1.3%) 31 (2.7%) 10 (2.0%) Pulmonary disease 2 (5.1%) 6 (4.9%) 7 (8.5%) 172 (28%) 97 (1.5%) 26 (14%) 135 (20%) 98 (8.6%) 44 (8.9%) Renal disorder 5 (13%) 11 (9.0%) 5 (6.1%) 13 (2.1%) 34 (5.4%) 12 (6.4%) 91 (1.3%) 57 (5.0%) 36 (7.3%) Trauma 9 (23%) 2 (1.6%) 11 (1.2%) 35 (5.7%) 18 (2.9%) 4 (2.1%) 97 (14%) 33 (4.7%) 53 (4.7%) 5 (1.0%) Orthers 3 (7.7%) 20 (16%) 21 (26%) 62 (10%) 87 (14%) 23 (12%) 71 (11%) 30 (3.3%) 3 (0.6%) Orthers 3 (7.7%) 20 (16%) 21 (26%) 62 (10%) 87 (14%) 23 (12%) 71 (11%) 169 (15%) 46 (9.3%) Severity score of disease*  Median [IQR] 0 [0,1] 1 [0,2] 1 [0,2] 0 [0,2] 1 [0,2] 1 [0,2] 0 [0,1] 0 [0,2] 1 [0,2] 1 [0,2] Severity score of disease*  Median [IQR] 8 [4,8] 4 [0,4] 4 [0,4] 8 [8,12] 8 [4,8] 8 [4,8] 8 [4,8] 4 [4,8] 4 [4,8] 4 [4,8] 8 [4,8] 4 [4,8] 8 [4,8] 4 [4,8] 8 [4,	Oncologic disorder	2 (5.1%)	27 (22%)	17 (21%)	17 (2.8%)	72 (11%)	15 (8.0%)	18 (2.7%)	166 (15%)	53 (11%)
Pulmonary disease										
Renal disorder										
Trauma								9 (1.3%)		
Undetermined 0 0 0% 1 0.8% 1 1 0.2% 5 0.8% 5 0.8% 5 0.8% 2 1.1% 1 1 0.1% 3 0.3% 3 0.6% 0 0 0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0										
Others         3 (7.7%)         20 (16%)         21 (26%)         62 (10%)         87 (14%)         23 (12%)         71 (11%)         169 (15%)         46 (9.3%)           Charlson comorbidity index         Median [QR]         0 [0, 1]         1 [0, 2]         1 [0, 2]         1 [0, 2]         1 [0, 2]         0 [0, 1]         0 [0, 1]         0 [0, 2]         1 [0, 2]           Severity score of disease*           Median [QR]         8 [4, 8]         4 [0, 4]         4 [0, 4]         8 [8, 12]         8 [4, 8]         8 [4, 8]         8 [4, 8]         4 [0, 8]         4 [0, 8]           Usage of medical devices*           Yes         39 (100%)         120 (98%)         80 (98%)         612 (100%)         628 (100%)         182 (97%)         674 (100%)         1,103 (97%)         466 (95%)           No         0 (0%)         2 (1.6%)         2 (2.4%)         1 (0.2%)         2 (0.3%)         6 (3.2%)         1 (0.1%)         30 (2.6%)         27 (5.5%)           ICU/HD admissions of enrollment           Yes         37 (95%)         38 (31%)         23 (28%)         520 (85%)         451 (72%)         131 (70%)         625 (93%)         584 (52%)         158 (32%)           No         2 (5.1%)         84 (69%)										
Charlson comorbidity index						, ,				
Median [IQR]         0 [0, 1]         1 [0, 2]         1 [0, 2]         0 [0, 2]         1 [0, 2]         0 [0, 1]         0 [0, 2]         1 [0, 2]           Severity score of disease*		- ( ' ' ' ' ' ' '	( 2.2.5)	()	- ( )		- ( )	(		
Severity score of disease*   Median [IQR]   8 [4, 8]   4 [0, 4]   4 [0, 4]   8 [8, 12]   8 [4, 8]   8 [4, 8]   8 [4, 8]   4 [0, 8]   4 [0, 8]     Usage of medical devices*   Yes		0 [0, 1]	1 [0, 2]	1 [0, 2]	0 [0, 2]	1 [0, 2]	1 [0, 2]	0 [0, 1]	0 [0, 2]	1 [0, 2]
Median   [IQR]	ate.	- [-, -]	- [-, -]	- [-, -]	· [-, -]	_ [-, -]	_ [-, _]	- [-, -]	· [•, -]	_ [-, -]
Usage of medical devices		8 [4, 8]	4 [0, 4]	4 [0, 4]	8 [8, 12]	8 [4, 8]	8 [4, 8]	8 [4, 8]	4 [0, 8]	4 [0, 8]
Yes         39 (100%)         120 (98%)         80 (98%)         612 (100%)         628 (100%)         182 (97%)         674 (100%)         1,103 (97%)         466 (95%)           No         0 (0%)         2 (1.6%)         2 (2.4%)         1 (0.2%)         2 (0.3%)         6 (3.2%)         1 (0.1%)         30 (2.6%)         27 (5.5%)           ICU/HD admissions of enrolment         Ves         37 (95%)         38 (31%)         23 (28%)         520 (85%)         451 (72%)         131 (70%)         625 (93%)         584 (52%)         158 (32%)           No         2 (5.1%)         84 (69%)         59 (72%)         93 (15%)         179 (28%)         57 (30%)         50 (7.4%)         549 (48%)         335 (68%)           Types of pathogens         37 (44%)         78 (64%)         56 (68%)         439 (72%)         361 (57%)         109 (58%)         487 (72%)         739 (65%)         345 (70%)           Gram-negative bacteria         17 (44%)         78 (64%)         56 (68%)         439 (72%)         361 (57%)         109 (58%)         487 (72%)         739 (65%)         345 (70%)           Gram-positive bacteria         1 (2.6%)         32 (26%)         17 (21%)         20 (3.3%)         115 (18%)         54 (29%)         34 (5.0%)         232 (20%)         113 (23%) <td>Usage of medical devices</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Usage of medical devices									
No         0 (0%)         2 (1.6%)         2 (2.4%)         1 (0.2%)         2 (0.3%)         6 (3.2%)         1 (0.1%)         30 (2.6%)         27 (5.5%)           ICU/HD admissions of enrolment           Yes         37 (95%)         38 (31%)         23 (28%)         520 (85%)         451 (72%)         131 (70%)         625 (93%)         584 (52%)         158 (32%)           No         2 (5.1%)         84 (69%)         59 (72%)         93 (15%)         179 (28%)         57 (30%)         50 (7.4%)         549 (48%)         335 (68%)           Types of pathogens           Gram-negative bacteria         17 (44%)         78 (64%)         56 (68%)         439 (72%)         361 (57%)         109 (58%)         487 (72%)         739 (65%)         345 (70%)           Gram-positive bacteria         1 (2.6%)         32 (26%)         17 (21%)         20 (3.3%)         115 (18%)         54 (29%)         34 (5.0%)         232 (20%)         113 (23%)           Fungi         0 (0%)         6 (4.9%)         0 (0%)         4 (0.7%)         70 (11%)         15 (8.0%)         5 (0.7%)         66 (5.8%)         8 (1.6%)           Polymicrobial         21 (54%)         6 (4.9%)         9 (11%)         150 (24%)         84 (13%)         10 (5.3%)		39 (100%)	120 (98%)	80 (98%)	612 (100%)	628 (100%)	182 (97%)	674 (100%)	1 103 (97%)	466 (95%)
ICU/HD admissions of enrolment         Yes       37 (95%)       38 (31%)       23 (28%)       520 (85%)       451 (72%)       131 (70%)       625 (93%)       584 (52%)       158 (32%)         No       2 (5.1%)       84 (69%)       59 (72%)       93 (15%)       179 (28%)       57 (30%)       50 (7.4%)       549 (48%)       335 (68%)         Types of pathogens         Gram-negative bacteria       17 (44%)       78 (64%)       56 (68%)       439 (72%)       361 (57%)       109 (58%)       487 (72%)       739 (65%)       345 (70%)         Gram-positive bacteria       1 (2.6%)       32 (26%)       17 (21%)       20 (3.3%)       115 (18%)       54 (29%)       34 (5.0%)       232 (20%)       113 (23%)         Fungi       0 (0%)       6 (4.9%)       0 (0%)       4 (0.7%)       70 (11%)       15 (8.0%)       5 (0.7%)       66 (5.8%)       8 (1.6%)         Polymicrobial       21 (54%)       6 (4.9%)       9 (11%)       150 (24%)       84 (13%)       10 (5.3%)       149 (22%)       96 (8.5%)       27 (5.5%)         Gram-negative bacteria         Third-generation cephalosporins-susceptible       15 (38%)       82 (67%)       53 (65%)       161 (26%)       331 (53%)       132 (70%)						` /				
Yes         37 (95%)         38 (31%)         23 (28%)         520 (85%)         451 (72%)         131 (70%)         625 (93%)         584 (52%)         158 (32%)           No         2 (5.1%)         84 (69%)         59 (72%)         93 (15%)         179 (28%)         57 (30%)         50 (7.4%)         549 (48%)         335 (68%)           Types of pathogens           Gram-negative bacteria         17 (44%)         78 (64%)         56 (68%)         439 (72%)         361 (57%)         109 (58%)         487 (72%)         739 (65%)         345 (70%)           Gram-positive bacteria         1 (2.6%)         32 (26%)         17 (21%)         20 (3.3%)         115 (18%)         54 (29%)         34 (5.0%)         232 (20%)         113 (23%)           Fungi         0 (0%)         6 (4.9%)         0 (0%)         4 (0.7%)         70 (11%)         15 (8.0%)         5 (0.7%)         66 (5.8%)         8 (1.6%)           Polymicrobial         21 (54%)         6 (4.9%)         9 (11%)         150 (24%)         84 (13%)         10 (5.3%)         149 (22%)         96 (8.5%)         27 (5.5%)           Gram-negative bacteria           Third-generation cephalosporins-susceptible         15 (38%)         82 (67%)         53 (65%)         161 (26%)         331		0 (070)	2 (1.070)	2 (2.470)	1 (0.270)	2 (0.570)	0 (3.270)	1 (0.170)	30 (2.070)	27 (3.570)
No 2 (5.1%) 84 (69%) 59 (72%) 93 (15%) 179 (28%) 57 (30%) 50 (7.4%) 549 (48%) 335 (68%)  Types of pathogens  Gram-negative bacteria 17 (44%) 78 (64%) 56 (68%) 439 (72%) 361 (57%) 109 (58%) 487 (72%) 739 (65%) 345 (70%)  Gram-positive bacteria 1 (2.6%) 32 (26%) 17 (21%) 20 (3.3%) 115 (18%) 54 (29%) 34 (5.0%) 232 (20%) 113 (23%)  Fungi 0 (00%) 6 (4.9%) 0 (0%) 4 (0.7%) 70 (11%) 15 (8.0%) 5 (0.7%) 66 (5.8%) 8 (1.6%)  Polymicrobial 21 (54%) 6 (4.9%) 9 (11%) 150 (24%) 84 (13%) 10 (5.3%) 149 (22%) 96 (8.5%) 27 (5.5%)  Gram-negative bacteria  Third-generation cephalosporins-susceptible 15 (38%) 82 (67%) 53 (65%) 161 (26%) 331 (53%) 132 (70%) 296 (44%) 717 (63%) 316 (64%)  Third-generation cephalosporins-resistant 6 (15%) 22 (18%) 22 (27%) 65 (11%) 87 (14%) 35 (19%) 84 (12%) 196 (17%) 125 (25%)		37 (95%)	38 (31%)	23 (28%)	520 (85%)	451 (72%)	131 (70%)	625 (93%)	584 (52%)	158 (32%)
Types of pathogens  Gram-negative bacteria 17 (44%) 78 (64%) 56 (68%) 439 (72%) 361 (57%) 109 (58%) 487 (72%) 739 (65%) 345 (70%)  Gram-positive bacteria 1 (2.6%) 32 (26%) 17 (21%) 20 (3.3%) 115 (18%) 54 (29%) 34 (5.0%) 232 (20%) 113 (23%)  Fungi 0 (0%) 6 (4.9%) 0 (0%) 4 (0.7%) 70 (11%) 15 (8.0%) 5 (0.7%) 66 (5.8%) 8 (1.6%)  Polymicrobial 21 (54%) 6 (4.9%) 9 (11%) 150 (24%) 84 (13%) 10 (5.3%) 149 (22%) 96 (8.5%) 27 (5.5%)  Gram-negative bacteria  Third-generation cephalosporins-susceptible 15 (38%) 82 (67%) 53 (65%) 161 (26%) 331 (53%) 132 (70%) 296 (44%) 717 (63%) 316 (64%)  Third-generation cephalosporins-resistant 6 (15%) 22 (18%) 22 (27%) 65 (11%) 87 (14%) 35 (19%) 84 (12%) 196 (17%) 125 (25%)		, ,								
Gram-negative bacteria 17 (44%) 78 (64%) 56 (68%) 439 (72%) 361 (57%) 109 (58%) 487 (72%) 739 (65%) 345 (70%) Gram-positive bacteria 1 (2.6%) 32 (26%) 17 (21%) 20 (3.3%) 115 (18%) 54 (29%) 34 (5.0%) 232 (20%) 113 (23%) Fungi 0 (0%) 6 (4.9%) 0 (0%) 4 (0.7%) 70 (11%) 15 (8.0%) 5 (0.7%) 66 (5.8%) 8 (1.6%) Polymicrobial 21 (54%) 6 (4.9%) 9 (11%) 150 (24%) 84 (13%) 10 (5.3%) 149 (22%) 96 (8.5%) 27 (5.5%)  Gram-negative bacteria Third-generation cephalosporins-susceptible 15 (38%) 82 (67%) 53 (65%) 161 (26%) 331 (53%) 132 (70%) 296 (44%) 717 (63%) 316 (64%) Third-generation cephalosporins-resistant 6 (15%) 22 (18%) 22 (27%) 65 (11%) 87 (14%) 35 (19%) 84 (12%) 196 (17%) 125 (25%)		2 (3.170)	04 (0370)	33 (7270)	33 (1370)	173 (2070)	37 (3070)	30 (7.470)	343 (4070)	333 (0070)
Gram-positive bacteria 1 (2.6%) 32 (26%) 17 (21%) 20 (3.3%) 115 (18%) 54 (29%) 34 (5.0%) 232 (20%) 113 (23%) Fungi 0 (0%) 6 (4.9%) 0 (0%) 4 (0.7%) 70 (11%) 15 (8.0%) 5 (0.7%) 66 (5.8%) 8 (1.6%) Polymicrobial 21 (54%) 6 (4.9%) 9 (11%) 150 (24%) 84 (13%) 10 (5.3%) 149 (22%) 96 (8.5%) 27 (5.5%) Gram-negative bacteria  Third-generation cephalosporins-susceptible 15 (38%) 82 (67%) 53 (65%) 161 (26%) 331 (53%) 132 (70%) 296 (44%) 717 (63%) 316 (64%) Third-generation cephalosporins-resistant 6 (15%) 22 (18%) 22 (27%) 65 (11%) 87 (14%) 35 (19%) 84 (12%) 196 (17%) 125 (25%)		17 (44%)	78 (64%)	56 (68%)	430 (72%)	361 (57%)	100 (58%)	487 (72%)	730 (65%)	345 (70%)
Fungi		, ,							` /	
Polymicrobial       21 (54%)       6 (4.9%)       9 (11%)       150 (24%)       84 (13%)       10 (5.3%)       149 (22%)       96 (8.5%)       27 (5.5%)         Gram-negative bacteria         Third-generation cephalosporins-susceptible       15 (38%)       82 (67%)       53 (65%)       161 (26%)       331 (53%)       132 (70%)       296 (44%)       717 (63%)       316 (64%)         Third-generation cephalosporins-resistant       6 (15%)       22 (18%)       22 (27%)       65 (11%)       87 (14%)       35 (19%)       84 (12%)       196 (17%)       125 (25%)	*					, ,				
Gram-negative bacteria         Third-generation cephalosporins-susceptible       15 (38%)       82 (67%)       53 (65%)       161 (26%)       331 (53%)       132 (70%)       296 (44%)       717 (63%)       316 (64%)         Third-generation cephalosporins-resistant       6 (15%)       22 (18%)       22 (27%)       65 (11%)       87 (14%)       35 (19%)       84 (12%)       196 (17%)       125 (25%)		, ,			, ,	, ,				
Third-generation cephalosporins-susceptible 15 (38%) 82 (67%) 53 (65%) 161 (26%) 331 (53%) 132 (70%) 296 (44%) 717 (63%) 316 (64%) Third-generation cephalosporins-resistant 6 (15%) 22 (18%) 22 (27%) 65 (11%) 87 (14%) 35 (19%) 84 (12%) 196 (17%) 125 (25%)		41 (3470)	0 (4.9%)	3 (1170)	130 (2470)	04 (13%)	10 (3,3%)	143 (2270)	30 (0.370 <i>)</i>	47 (J.370)
Third-generation cephalosporins-resistant 6 (15%) 22 (18%) 22 (27%) 65 (11%) 87 (14%) 35 (19%) 84 (12%) 196 (17%) 125 (25%)		1E (200/)	02 (670/)	E2 (6E0/)	161 (260/)	221 (F20/)	122 (700/)	206 (440/)	717 (620/)	216 (640/)
					, ,	, ,			` /	
								, ,	, ,	
Carbapenem-resistant 18 (46%) 18 (15%) 7 (8.5%) 387 (63%) 212 (34%) 21 (11%) 295 (44%) 220 (19%) 52 (11%)  *Standardized severity score included a SOFA for adults, sensis six recognition features for children, and general WHO severity signs for peopates.	-	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	` ´	` `	` '	21 (11%)	290 (44%)	ZZU (19%)	52 (11%)

<sup>\*</sup> Standardized severity score included qSOFA for adults, sepsis six recognition features for children, and general WHO severity signs for neonates.

<sup>&</sup>lt;sup>†</sup> Medical devices involved one or more of the following: peripheral intravenous catheter, central venous catheter, indwelling urinary catheter, and intubation/machine ventilator.