

Supplementary material

Table S1 Summary of all medication administered during and prior to hospitalization

Medications during treatment, n (%)	4226 (98.65)
Antimicrobials	3944 (92.06)
Vasoprotectives	2586 (60.36)
Cardiac therapy	2142 (50.00)
Antithrombotic agents	1962 (45.60)
Anti-inflammatory and antirheumatic products	1373 (32.05)
Antineoplastic agents	284 (6.63)
Immunostimulants	427 (9.97)
Immunosuppressants	21 (0.49)
Medication prior to hospitalization, n (%)	1669 (38.96)
Calcium channel blockers	683 (15.94)
Agents acting on the renin-angiotensin system	439 (10.25)
Drugs used in diabetes	404 (9.43)
Beta blocking agents	350 (8.17)
Antithrombotic agents	206 (4.81)
Cardiac therapy	177 (4.13)
Stomatological preparations	154 (3.59)
Diuretics	150 (3.5)
Analgesics	139 (3.24)
Lipid modifying agents	138 (3.22)
Antibacterials	143 (3.34)
Urologicals	90 (2.1)

Table S2 The top 20 frequent first-time use antibiotics

Drug	Hospitalizations, n (%)
	N*=3834
Cephalosporin 1st generation	65 (1.69)
Cefathiamidine	56 (1.46)
Cephalosporin 2nd generation	292 (7.61)
Cefuroxime	191 (4.98)
Cefamandole	81 (2.11)
Cephalosporin 3rd generation	1415 (36.90)
Cefixime	595 (15.52)
Cefoperazone and tazobactam	338 (8.82)
Cefoperazone and sulbactam	147 (3.83)
Ceftriaxone	80 (2.09)
Moxalactam	74 (1.93)
Cefodizime	74 (1.93)
Ceftizoxime	41 (1.07)
Fluoroquinolones	1087 (28.35)
Levofloxacin	963 (25.12)
Moxifloxacin	75 (1.96)
Ciprofloxacin	39 (1.02)
Penicillin combination	277 (7.22)
Piperacillin and sulbactam	188 (4.90)
Piperacillin and tazobactam	38 (0.99)
Carbapenems	150 (3.91)
Imipenem and cilastatin	150 (3.91)
Nitroimidazole	202 (5.27)

Ornidazole	134 (3.50)
Metronidazole	68 (1.77)
Ceftriaxone and tazobactam	58 (1.51)
Aminoglycoside	88 (2.28)
Amikacin	46 (1.20)
Macrolides	44 (1.14)
Azithromycin	38 (0.99)

Note: N* represents the total number of hospitalization cases with antibiotics treatment of UTI.

Table S3 The 20 most frequent overall antibiotics during the whole hospitalization

Drug	Hospitalizations, n (%)
	N*=3834
Fluoroquinolones	1363 (35.55)
Levofloxacin	1161 (30.28)
Moxifloxacin	152 (3.96)
Ciprofloxacin	121 (3.16)
Cephalosporin 2nd generation	522 (13.61)
Cefuroxime	278 (7.25)
Cefamandole	177 (4.62)
Cephalosporin 3rd generation	2303 (60.07)
Cefoperazone and tazobactam	800 (20.87)
Cefixime	740 (19.30)
Cefoperazone and sulbactam	498 (12.99)
Ceftriaxone	227 (5.92)
Cefodizime	212 (5.53)
Ceftriaxone and tazobactam	159 (4.15)
Ceftizoxime	158 (4.12)
Moxalactam	148 (3.86)
Penicillin combination	701 (18.28)
Piperacillin and sulbactam	381 (9.94)
Piperacillin and tazobactam	225 (5.87)
Carbapenems	416 (10.85)
Imipenem and cilastatin	379 (9.89)
Nitroimidazole	366 (9.55)
Ornidazole	232 (6.05)
Metronidazole	186 (4.85)

Macrolides	152 (3.96)
Azithromycin	117 (3.05)
Vancomycin	151 (3.94)
Vancomycin	107 (2.79)

Note: N* represents the total number of hospitalization cases with antibiotics treatment of UTI.

Table S4 Summary of log-rank test statistics for stratified variables

Stratified variables	Log-rank chi-squared test	P value
Sex	41.3	<0.001
Age ([18,30],[30,60],[60,100])	300	0
Marriage (Married or not)	63.8	<0.001
Diabetes	46.2	<0.001
Kidney stone	0.1	0.719
Renal insufficiency	31.7	<0.001
Surgery history	9.1	0.0026

Figure S1

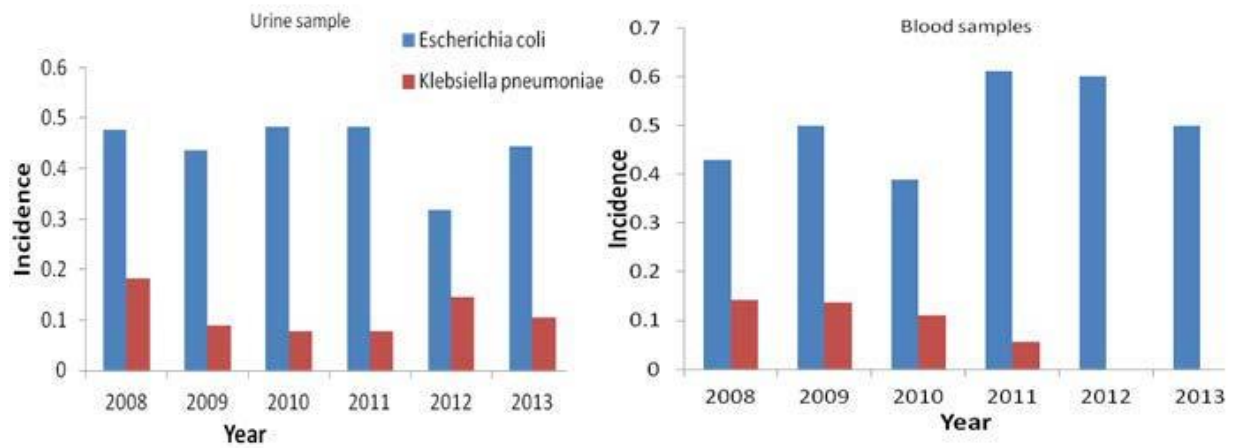


Figure S2

