



## Cumulative Antibiograms for Community Outpatient Infections

To: Clients of UR Medicine Labs

From: Dwight J. Hardy, Ph.D.  
Director, UR Medicine Clinical Microbiology laboratories  
Phone: (585) 275-1408  
E-mail: [Dwight\\_Hardy@urmc.rochester.edu](mailto:Dwight_Hardy@urmc.rochester.edu)

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Cumulative susceptibility test data (often referred to as an antibiogram) for commonly encountered bacteria summarize results from many patient isolates. Antibiograms are intended to raise awareness of specific antibiotic resistance problems within a community and guide empiric therapy until susceptibility test results for a particular patient isolate are available.

The following antibiograms are derived from results of antibiotic susceptibility testing performed on culture isolates from Community Outpatient specimens submitted to our laboratory; test results for isolates from hospitalized patients and nursing home patients have been excluded from these data.

Data from Community Pediatric Outpatients (patients  $\leq 16$  years old) have been analyzed separately from Community Adult Outpatients (patients  $\geq 17$  years old) (see attached tables).

For additional information contact Dr. Hardy by any of the methods listed above.

**UR Medicine Labs - Antibiotic Susceptibility Profiles**  
**(Data Collected 7/1/2016 - 6/30/2017)**  
**Percent of Isolates Susceptible to Achievable Serum Levels**  
**Isolates from Community Pediatric (<= 16 yo) Outpatients**

ORGANISM	No. of Non-Duplicate Isolates	Amikacin	Gentamicin	Tobramycin	Ampicillin	Amoxicillin-Clavulanate	Ampicillin-Sulbactam	Penicillin	Piperacillin-Tazobactam	Oxacillin	Imipenem	Meropenem	Ertapenem	Aztreonam	Cefazolin	Cefepime	Ceftriaxone	Vancomycin	Linezolid	Erythromycin	Clindamycin	TMP-SMZ	Ciprofloxacin	Levofloxacin	Moxifloxacin	Nitrofurantoin <sup>a</sup>	Tetracycline	Tigecycline
<i>E. coli</i>	185	100	95	98	69		83		98		100	100	99	97	94	100	97				87	95	94	94	98		100	
<i>Kleb. pneumoniae</i>	14	100	100	100	0		100		100		100	100	100	100	100	100	100				100	100			88		100	
<i>Proteus mirabilis</i>	15	100	93	100	73		100		100		100	100	100	100	92	100	100				86	100			0			
<i>Ps. aeruginosa</i>	17	94	94	100					100		100	100		100	100		100				100							
<i>Staph aureus</i>	175		100			67		14		67				67			100	100	54	84	94		98	100	96	100		
<i>Strep pneumoniae<sup>b</sup></i>	55					67 <sup>c</sup>									98 <sup>c</sup>	100	100	58	75	88					70			
<i>Strep pneumoniae<sup>b</sup></i>	55					100 <sup>d</sup>									98 <sup>d</sup>	100	100	58	75	88					70			
<i>Enterococcus faecalis</i>	15		86 <sup>e</sup>		100			100								100	100				100		100	31				

<sup>a</sup>Susceptible to levels achievable in urine only.

<sup>b</sup>Isolates from hospital or ED patients

<sup>c</sup>Susceptible to high level gentamicin

<sup>c</sup>Based on Interpretive Criteria for Meningitis

<sup>d</sup>Based on Interpretive Criteria for Non-Meningitis

**UR Medicine Labs - Antibiotic Susceptibility Profiles**  
**(Data Collected 7/1/2016- 6/30/2017)**  
**Percent of Isolates Susceptible to Achievable Serum Levels**  
**Isolates from Community Adult (>= 17 yo) Outpatients**

ORGANISM	No. of Non-Duplicate Isolates	Amikacin	Gentamicin	Tobramycin	Ampicillin	Amoxicillin-Clavulanate	Ampicillin-Sulbactam	Penicillin	Piperacillin-Tazobactam	Oxacillin	Imipenem	Meropenem	Ertapenem	Aztreonam	Cefazolin	Cefepime	Ceftriaxone	Vancomycin	Linezolid	Erythromycin	Clindamycin	TMP-SMZ	Ciprofloxacin	Levofloxacin	Moxifloxacin	Nitrofurantoin <sup>a</sup>	Tetracycline	Tigecycline
<i>E. coli</i>	2004	100	93	98	61		82		98		99	99	99	97	94	99	95			80	86	80	80	99		100		
<i>Citrobacter diversus</i>	33	100	100	100	0				100			100	100	100		100	100			100	100				94		100	
<i>Kleb. pneumoniae</i>	304	99	99	99	0		92		98		100	100	99	99	97	99	99			90	98	94	94	81		100		
<i>Enterobacter aerogenes</i>	40	100	100	100	0				95			100	97	95	0	100	95			100	97			73		100		
<i>Serratia marcescens</i>	26	100	100	91	0						100	100	100	100	0	100	100			100	100	100	100	0		100		
<i>Proteus mirabilis</i>	144	100	97	99	86		97		100		100	100	100	100	93	100	98			93	95			0				
<i>Ps. aeruginosa</i>	86	100	100	100					100		95	97		93	100						90							
<i>Staph aureus</i>	423		99			72		24		72					72				100	100	52	76	97		94	100	93	100
<i>Strep pneumoniae<sup>b</sup></i>	55								67 <sup>c</sup>								98 <sup>c</sup>	100	100	58	75	88					70	
<i>Strep pneumoniae<sup>b</sup></i>	55								100 <sup>d</sup>								98 <sup>d</sup>	100	100	58	75	88					70	
<i>Enterococcus faecalis</i>	95		87 <sup>e</sup>		98			98									98	100				87		100	28			
<i>Neisseria gonorrhoeae</i>	11															100					54				40			

<sup>a</sup>Susceptible to levels achievable in urine only.

<sup>b</sup>Blood Isolates from hospital or ED patients

<sup>e</sup>Susceptible to high level gentamicin

<sup>c</sup>Based on Interpretive Criteria for Meningitis

<sup>d</sup>Based on Interpretive Criteria for Non-Meningitis