



**SOUTH BEND
MEDICAL
FOUNDATION**

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Microbiology Department

Susceptibility Patterns
Of Common Organisms
Isolated From
Elkhart

January-December 2010

**ELKHART COUNTY
SUSCEPTIBILITY PATTERNS OF NONURINE ISOLATES
January to December 2010**

(%) Represents the percent susceptible

(-) Test not performed or antibiotic not indicated for organism at this site

ORGANISMS COUNTED First isolate per patient per year	MRSA ^{1,2}	<i>Staph aureus</i> ² not MRSA	<i>Staph coagulase</i> negative	<i>Enterococcus</i> ^{3,4}	<i>Streptococcus</i> ⁵ <i>pneumoniae</i>	<i>E. coli</i>	<i>Pseudomonas</i> <i>aeruginosa</i>	<i>Klebsiella</i> <i>pneumoniae</i>	<i>Proteus mirabilis</i>
Number of isolates (1212)	(303)	(295)	(68)	(127)	(36)	(184)	(124)	(41)	(34)
ANTIMICROBIALS	%	%	%	%	%	%	%	%	%
AMIKACIN	-	-	-	-	-	100	95	100	100
AMPICILLIN	-	-	-	87	-	57	-	-	91
AMP/SULBACTAM	-	-	-	-	-	72	-	90	91
CEFAZOLIN	-	100	35	-	-	90	-	98	91
CEFOTETAN	-	-	-	-	-	-	-	-	-
CEFTAZIDIME	-	-	-	-	-	97	94	100	100
CEFTRIAXONE	-	-	-	-	100	97	-	100	97
CLINDAMYCIN	77	86	53	-	-	-	-	-	-
ERYTHROMYCIN	-	66	40	-	83	-	-	-	-
GENTAMICIN	-	-	-	-	-	95	87	98	97
LEVOFLOXACIN	60	93	50	-	100	83	87	98	77
OXACILLIN	-	100	34	-	-	-	-	-	-
PENICILLIN	-	14	10	87	94	-	-	-	-
PIP/TAZOBACTAM	-	-	-	-	-	98	94	98	100
TETRACYCLINE	97	96	81	-	89	-	-	-	-
TOBRAMYCIN	-	-	-	-	-	95	97	100	97
TRIMETH/SULFA	99	100	66	-	90	86	-	100	71
VANCOMYCIN	100	100	100	88	100	-	-	-	-

1. 51% of all *Staphylococcus aureus* are MRSA
2. 16% of MRSA and 13% of *Staphylococcus aureus* other than MRSA have inducible clindamycin resistance
3. 12% of *Enterococcus* are VRE; 3% of VRE are ampicillin susceptible
4. Synergy with penicillin and high levels of gentamicin or streptomycin is likely for 92% and 67% of *Enterococcus* respectively
5. *Streptococcus pneumoniae* susceptibility data based on sterile body fluid isolates only
6. 6% of all *Streptococcus pneumoniae* are penicillin intermediate (0%) or resistant (6%)
7. 67% of Group B *Streptococcus* from vaginal/rectal sources are susceptible to clindamycin

**ELKHART COUNTY
SUSCEPTIBILITY PATTERNS OF URINE ISOLATES
January to December 2010**

(%) Represents the percent susceptible

(-) Test not performed or antibiotic not indicated for organism

PATIENT LOCATION	ORGANISMS COUNTED First isolate per patient per year	<i>Escherichia coli</i> ^	<i>Enterococcus</i>	<i>Klebsiella pneumoniae</i>	<i>Proteus mirabilis</i>	<i>Pseudomonas aeruginosa</i>
OP	Number of isolates	(667)	(123)	(113)	(97)	(50)
OP	ANTIMICROBIALS	%	%	%	%	%
OP	AMPICILLIN	60	90	-	93	-
OP	AMP/SULBACTAM	70	-	93	95	-
OP	CEFAZOLIN	90	-	96	98	-
OP	LEVOFLOXACIN	80	54	98	52	80
OP	NITROFURANTOIN	93	87	29	-	-
OP	PENICILLIN	-	90	-	-	-
OP	TETRACYCLINE	-	36	-	-	-
OP	TRIMETH/SULFA	82	-	94	71	-
IP	Number of isolates	(1276)	(182)	(178)	(92)	(59)
IP	AMPICILLIN	55	93	-	87	-
IP	AMP/SULBACTAM	69	-	96	96	-
IP	CEFAZOLIN	91	-	97	98	-
IP	LEVOFLOXACIN	87	69	99	59	88
IP	NITROFURANTOIN	94	92	38	-	-
IP	PENICILLIN	-	92	-	-	-
IP	TETRACYCLINE	-	24	-	-	-
IP	TRIMETH/SULFA	79	-	97	70	-

**SUSCEPTIBILITY TESTING BY
SOURCE GROUP**

Abscess (181)

MRSA (40%)
Staphylococcus aureus (34%)
Escherichia coli (10%)
Enterococcus sp. (6%)

Blood (263)

Escherichia coli (23%)
Staphylococcus coag neg (10%)
Streptococcus pneumoniae (14%)
Streptococcus viridans group (8%)
Staphylococcus aureus (6%)
MRSA (6%)

Lower Respiratory (194)

Pseudomonas aeruginosa (27%)
Streptococcus pneumoniae (21%)
Staphylococcus aureus (13%)
MRSA (11%)
Escherichia coli (6%)

Wound/skin (605)

MRSA (28%)
Staphylococcus aureus (25%)
Pseudomonas aeruginosa (7%)
Escherichia coli (6%)

Urine (3225)

Escherichia coli (60%)
Enterococcus sp. (12%)
Klebsiella pneumoniae (9%)
Proteus mirabilis (6%)

^1% of all urine *E. coli* are presumptive extended beta-lactamase producers (ESBL)