West Lincoln Memorial Hospital Antibiogram Cumulative Data for 2020

Before using this antibiogram you should know:

- 1) The antibiogram is used to direct initial empiric therapy only. Antibiotics need to be reassessed based on susceptibility testing and patient clinical status.
- 2) Data presented in the antibiogram should be considered in combination with an individual patient's risk factors for resistant organisms, clinical syndrome and hospital epidemiology.
- 3) The antibiogram provides the percentage of isolates which are **susceptible** to an antibiotic. For life-threatening infections, it is reasonable to choose an antibiotic regimen with the lowest resistance rate.
- 4) A shaded box indicates that the particular antibiotic/microorganism combinations are not recommended.
- 5) Calculation of results was based on the first isolate per patient for the year 2020. Duplicate isolates and surveillance isolates were removed.

For further information, contact the Microbiology Laboratory, Hamilton Regional Laboratory Medicine Program All specimens excluding surveillance for 2020 – West Lincoln Memorial Hospital % Susceptible

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Gram Negative Organisms	No. of Isolates	Ampicillin	Ceftriaxone	Ceftazidime	Piperacillin- Tazobactam	Ertapenem	Meropenem	Gentamicin	Tobramycin	Amikacin	TMP/SMX	Ciprofloxacin
E. coli	289	58	93		96	100	100	92	93		79	74
Klebsiella pneumoniae	53	0	89		98	100	100	98	92		85	79
Proteus mirabilis	#20	85	100		100	100	100	100	100		95	95
Pseudomonas aeruginosa	34			91	97		91	94	97			82

[#] Fewer than 30 isolates may not be reliable for guiding empiric treatment decisions and cannot be used to statistically compare results to other years.

Gram Positive Organisms	No. of Isolates	Ampicillin	Cloxacillin	Cefazolin	Clindamycin	Erythromycin	TMP/SMX	Ciprofloxacin	Tetracycline	Rifampin (not to be used as monotherapy)	Vancomycin	
Staphylococcus aureus (includes MSSA and MRSA)	88		74	74	See MSSA and MRSA							
Methicillin Sensitive S. aureus (MSSA)	67		10	00	87	84	100	93	99	100	100	
Methicillin resistant S.aureus(MRSA)	#23		()	61	17	100	4	96	100	100	
Enterococcus spp	64	83									97	

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ANTIBIOGRAM FOR 2020 BY SPECIMEN TYPE - West Lincoln Memorial Hospital

1) Urine Culture Specimens: % Susceptible

Organism	Number of Isolates	Ampicillin	Cefazolin (Urinary)	Ceftriaxone	Ceftazidime	Piperacillin- Tazobactam	Ertapenem	Meropenem	Gentamicin	Tobramycin	Amikacin	Nitrofurantoin (for urine only)	TMP/SMX	Ciprofloxacin
E. coli	277	58	90	93		96	100	100	92	94		95	78	73
Klebsiella pneumoniae	52	0	88	88		98	100	100	98	92		37	85	81
Pseudomonas aeruginosa	#25				92	100		92	96	96				84

[#] Fewer than 30 isolates may not be reliable for guiding empiric treatment decisions and cannot be used to statistically compare results to other years.

Organism	Number of Isolates	Ampicillin	Ciprofloxacin	Nitrofurantoin (for urine only)	Tetracycline	Vancomycin
Enterococcus spp	56	82	56	86	20	96

Intrinsic resistance for selected organisms

Organism	Antibiotics that are INEFFECTIVE ***DO NOT USE***
Enterococcus	Cephalosporins, Cloxacillin, Clindamycin, TMP/SMX
	Ciprofloxacin and Tetracycline should be used only for urinary source
SPICE organisms (Serratia, indole	Penicillins, cephalosporins, broad spectrum penicillins and β-lactam/β-
positive Proteus, Providencia, Pantoeae,	lactamase inhibitor combinations (eg. piperacillin-tazobactam) are not
Morganella, Citrobacter freundii complex,	recommended as SPICE organisms contain an inducible chromosomal AmpC
Enterobacter spp)	β-lactamase.
Salmonella spp	Aminoglycosides, 1 st and 2 nd generation cephalosporins
Methicillin resistant S. aureus (MRSA)	Penicillins, cephalosporins, broad spectrum penicillins and β-lactam/β-
	lactamase inhibitor combinations, carbapenems (e.g. meropenem)

Helpful Web Sites

Centers for Disease Control and Prevention http://www.cdc.gov/drugresistance

http://www.cdc.gov/getsmart Infectious Diseases Society of America

http://www.idsociety.org http://www.choosingwiselycanada.org Choosing Wisely Canada

Association of Medical Microbiologists and http://www.ammi.ca Infectious Diseases Canada (AMMI)

http://www.hopkinsguides.com http://www.aidsinfo.nih.gov/ Johns Hopkins Infectious Diseases AidsInfo (US Dept of Health and Human Services)