

# Antibiogram

## Middlesex Health Alliance

### **A Guide to Interpreting the Antibiogram**

- The antibiogram is an annual cumulative report of the antimicrobial susceptibility rates of common pathogens recovered from patients receiving care at Middlesex Health Alliance facilities and is to be used as a resource to inform empirical antimicrobial therapy.
- Susceptibility rates are calculated from the compilation of susceptibility results from all 'first' clinical isolates of a specific pathogen recovered from an individual patient per 30-day period. The rationale for this referral period is based on the need to represent 'wild-type' susceptibility profiles and avoid over-representing antimicrobial resistance that may develop de novo during a patient's prolonged hospital stay.
- Susceptibility rates for pathogens or clinical scenarios represented by less than 30 isolates are not calculated due to their limited statistical significance and interpretive value.
- The appropriateness of empiric therapy is highlighted using a colour range that corresponds to susceptibility rates. Green, 80-100%; Yellow, 70-79%; Red, <70%.

# 2020 Antibiogram Middlesex Health Alliance

Organism	Number of Isolates	Ampicillin	Amoxicillin-Clavulanate	Cloxacillin	Cephalexin (urinary tract)	Cefazolin	Ceftriaxone	Imipenem	Meropenem	Ciprofloxacin	Clindamycin	Doxycycline	Gentamicin	Tobramycin	TMP-SMX	Vancomycin
<i>Escherichia coli</i>	399	64	89		94	78	95	100		80			95	95	85	
<i>Klebsiella pneumoniae</i> complex	71		97		97	93	96	99		94			100	99	96	
<i>Proteus mirabilis</i>	33	94	100				100		100	89			100	100	94	
<i>Staphylococcus aureus</i> (incl. MRSA)	78			83							77	100			99	100