

URINE Isolates	Total Number (18 months)	Nitrofurantoin*	Co-trimoxazole	AmplIV/AmoxPO	Amox+Clav.Acid	Oral ceph. (cystitis)†	Cefixime	Ciprofloxacin*	Ceftriaxone	Ceftazidime	Ertapenem	Piperacillin+Tazo	Meropenem	Tobramycin	Vancomycin IV or Linezolid PO/IV	
<i>E. coli</i> ~	6264	94	82	62	86	94	94	85	96	96	100	94	100	95		
<i>Klebsiella pneumoniae</i>	937	36	95		97	98	98	100	99	99	100	96	100	99		
<i>Klebsiella oxytoca</i>	170	75	95		94	84	100	99	96	100	100	94	100	99		
<i>Enterobacter</i> spp.	303	22	92					98			92		95	97		
<i>Proteus mirabilis</i>	400		79	88	95	91	96	99	96	96	100	96	100	91		
<i>Pseudomonas aeruginosa</i>	225							85		96		92	89	100		
<i>Staphylococcus saprophyticus</i>	402	100	96					99								100
<i>Enterococcus</i> spp.	979	95		94	94			42				94	94			100

**E. coli* and Cipro: ICU (42 isolates) 83%, ER (1180) 94%;
 † Not suitable for bacteremia.
 *Nitrofurantoin activity limited to cystitis. Suitable for use with adequate renal function (CrCl >40 mL/min);
 ‡ Surrogate testing for Cephalexin and Cefuroxime in cystitis, approximation for *K. oxytoca*.
 ~*E.coli* and Fosfomycin (132) 100% activity mostly limited to the bladder (cystitis)

Gram Positive Cocci	Total Number (18 months)	AmplIV/AmoxPO	Amox+Clav.Acid	1 st Generation Cephalosporins	Cefuroxime or Ceftriaxone	Doxycycline (Tetracycline)	Co-trimoxazole	Erythromycin	Clindamycin	Vancomycin IV
<i>Staph. aureus</i> (MSSA and MRSA)	1620	24	88	88	88	96	99	66	71	100
MSSA	1443	26	100	100	100	96	99	72	75	100
MRSA	177					91	97	22	42	100
<i>Staphylococcus lugdenensis</i>	131	65	86	86	86	100	99	90	90	100
Coagulase Neg. <i>Staph. (not S.lug.)</i>	413		47	47	47	84	69	39	62	100
<i>Enterococcus</i> spp.	138	89	89			42				98
Group A <i>Strep</i>	100	100	100	100	100	~60		98	96	100
Group B <i>Strep</i>	386	100	100	100	100	~26		63	64	100
<i>Streptococcus pneumoniae</i> [†]	126	89LD 100HD	89LD 100HD	89	98	75	~70	74	~90	100

MRSA rate 10% of *Staph. aureus* Blood Cultures 16% of *Staph. aureus* ER wounds
 Low dose (LD) High Dose (HD) in non-central nervous system infections;
[†]*S. pneumoniae* from respiratory specimens (100) and sterile / blood isolates (26)
 ~2014 National data as local data unavailable; Shaded boxes = Predictably Resistant

Gram negative Isolates (Excluding urines)	Total Number (18 months)	AmplIV/AmoxPO	Amox+Clav.Acid	Cephalexin	Cefixime	Co-trimoxazole	Ciprofloxacin	Cefazolin*	Ceftriaxone	Ceftazidime	Ertapenem	Piperacillin+Tazo	Meropenem	Tobramycin
<i>E. coli</i>	417	54	84	55	90	74	77	90	93	93	100	91	100	93
<i>Klebsiella</i> spp.	178		95	96	97	95	98	94	97	97	99	95	99	97
<i>Proteus mirabilis</i>	85	91	95	98	98	86	100	98	98	98	100	99	100	90
<i>Enterobacter</i> spp.	113					99	99				98		98	99
<i>Citrobacter</i> spp.	44					98	100				100		100	100
<i>Serratia</i> spp.	59					100	98				98		98	98
<i>Acinetobacter</i> spp.	40					90	93			85				95
<i>Pseudomonas aeruginosa</i>	408						92					95	92	99

*Cefazolin not optimal for blood stream infections; Shaded boxes=Predictably Resistant
Haemophilus influenzae beta lactamase positive: (188 isolates) 31%

Health PEI ANTIBIOGRAM 2016

(Island-wide Antibiotic Susceptibility Results of Non-duplicative Isolates)

<p>Medical Microbiologist: Dr. Greg German Secretary: # 894-2439 QEHL Switchboard for Direct line or Page</p>	<p>Head Microbiology Technologists: Vanessa Arseneau QEHL Laboratory # 894-2312 Becky Moore PCH Laboratory # 438-4287</p>
---	---

Prepared by: Chris Norgaard Antibiotic Testing Technologist (QEHL)

Anaerobic susceptibilities*

Predictably Susceptible:
 Amoxicillin+Clavulanic Acid, Piperacillin+Tazobactam, Ertapenem, and Meropenem;
Also Predictably Susceptible:
 Metronidazole (Yet *Actinomyces* or *Propionibacterium* are intrinsically resistant)
 Double anaerobic coverage when already on one of above antibiotics is discouraged.
NOT-Predictably Susceptible: Moxifloxacin, Doxycycline, Cefoxitin or Clindamycin
 Note: Most beta-lactamase negative oral anaerobes are susceptible to Amoxicillin.
 *Bugs and Drugs (Canada) 2012; Susceptibilities available on a case by case basis.

www.healthpei.ca/micro