

Emerging Resistance Patterns for CoA Year End 2020

of Alabama®

GRAM POSITIVE INFECTIONS

- Staphylococcus aureus -58% Oxacillin susceptible (MSSA) for ALL isolates; 64% for CA-S aureus
 - Empiric therapy for *S aureus*; dependent on clinical presentation; Vancomycin is recommended in ill-appearing patients; Clindamycin or Cefazolin empiric therapy in non-ill appearing, nontoxic patients
 - Nafcillin or cefazolin are indicated once MSSA documented (Vancomycin no longer needed)
 - Patients with documented penicillin allergy consult ID for treatment options
 - For <u>all</u> sites Clindamycin sensitivity for both MSSA and MRSA is trending down for community isolates @ <u>59</u>% and <u>71</u>%, respectively.
- Streptococcus pneumoniae <u>81</u>% susceptibility for ceftriaxone in non-CSF isolates; <u>100</u>% from blood, <u>66</u>% in CSF.
 - Empiric therapy for pneumococcus Ceftriaxone
 - ✓ In cases of meningitis Ceftriaxone + Vancomycin until sensitivity confirmed
- Enterococcus 0 VRE isolates for 2020.
 - *E. faecalis* <u>100</u>% sensitivity to Penicillin G/Ampicillin (drug of choice)
- Gram positive organisms that are 100% sensitive to Penicillin, no need for sensitivity confirmation
 - Group B streptococcus Ampicillin or Penicillin G
 - Group A streptococcus Penicillin G
 - Listeria monoctogenes Ampicillin (add gentamicin for meningitis)

GRAM NEGATIVE INFECTIONS

- ESBL rates overall <u>10</u>% (for *E. coli, Klebsiella* species) for sterile site infections and urine isolates (average from community acquired and hospital acquired).
 - $\circ~$ For ESBL (+) sterile site infections Meropenem is indicated
 - For ESBL (+) urinary tract infections Nitrofurantoin (not for pyelonephritis), fosfomycin,
 Bactrim, Ciprofloxacin or Gentamicin/Tobramycin therapy could all be appropriate treatment
 - For non-urine/sterile site infections (respiratory or wound) Meropenem, Bactrim or Ciprofloxacin would be preferred agents.
- E. coli Increasing rate of resistance to Bactrim for isolates from urine, currently less than 75% of all urine isolates are sensitive to Bactrim for 2020. Cefazolin/Cephalexin rates of sensitivity remain above <u>95%</u> for both inpatient and community acquired urinary tract infections and should be considered good empiric options.
- Pseudomonas aeruginosa similar sensitivities for Ceftazidime, Cefepime and Piperacillin/Tazobactam .