

## Most important thing to know as an academic microbiology director

Microbiology and Infectious diseases

Microbiology and Infectious disease Pharmacy

Microbiology and Antimicrobial Stewardship

Microbiology and Hospital Epidemiology

Microbiology and Public Health

All relationships built on trust and teamwork

These relationships are critical to the impact your laboratory will have on patient care











Pneumonia Penicillin 3 million units q4h or PCN highly active against pneumococcus Severe PCN allergy: Ceftriaxone Ampicillin 2g IV q4h CNS Infection Ceftriaxone 2g q12h + Vancomycin 15 Continue vancomycin until susceptibilities retu mg/kg q12h Gram Negative Pathogens CTX-M Negative: Cefepime 1g q6h or Formerly Enterobacteriacene. Note this is a group possible enteric Gram-negative organisms, not a specific bacterial genus. terobacterales order only iperacillin/tazobactam 4.5 g q8h CTX-M + = Possible Extended-Spectrum CTX-M Positive or Nosocomial Onset: Ertapenem 1g q24h or Meropenem 500mg q6h See Table 5 for potential pathogens included in this eta-Lactamase (ESBL) present KPC, IMP, VIM, NDM, OXA-48 + = Possible ase positive consult ID carbapenemase present Acinetobacter baumannii complex Aeropenem 500 mg IV a6h Meropenem: 100% susceptible (cumulative) Levofloxacin: 92% susceptible (cumulative) Cefepime: 84% susceptible (cumulative) severely ill or non-responding consult ID n severely ii of non-responding consult U Anerobic cryanium susuilly part of underlying ii (ii), eintra-abdominal, etc.) (<u>perscalini/scalescal-an alternative</u> to metroni <u>Cafeoime: 85-94%</u> susceptible (<u>bead</u>) <u>85%</u> KO susceptible (<u>blood</u>) <u>Meropenem:</u> 100% susceptible <u>Ertaprene</u>: 70-92% susceptible <u>Ertaprene</u>: 70-92% susceptible <u>Bead</u> <u>97%</u> KO susceptible (<u>blood</u>) = 70% KO susceptible <u>86%</u> KO susceptible <u>66%</u> KO susceptible <u>66%</u> KO susceptible acteroides fragilis 1etronidazole 500 mg q8h bacter cloacae complex CTX-M Negative: Cefepime 1 g IV q6h CTX-M Positive or Nosocomial-onset: CTX-M + = Possible Extended-Spectrum Beta-Lactamase (ESBL) present leropenem 500 mg IV q6h KPC, IMP, VIM, NDM, OXA-48 + = Possible Carbapenemase positive consult ID ase present 65% NO susceptible (blood)











![](_page_6_Picture_3.jpeg)

![](_page_7_Picture_1.jpeg)