Appendix 2 - Antibiotics with activity against Carbapenem R Organisms (LTR82249)

Edit Approved By: Verity, Bob (11/23/2023) **Revision: 1.0**

Agent	KPC-producer	NDM-producer	OXA-48-like-producer	Carbapenem-resistant *Pseudomonas aeruginosa*	Carbapenem-resistant *Acinetobacter baumannii*	*Stenotrophomonas maltophilia*
Aztreonam-avibactam						
Cefiderocol						
Ceftazidime-avibactam[1]						
Ceftolozane-tazobactam[1]						
Eravacycline[1,2]						
Fosfomycin (intravenous)						
Imipenem-relebactam[3]						
Meropenem-vaborbactam[1]						
Plazomicin[1,4]						
Polymyxin B[1,5] or Colistin[1,5]						
Tigecycline[1,2]						

Information

- Select antibiotics with activity against carbapenem-resistant organisms.
- Green, susceptibility anticipated to be >80%;
  Yellow, susceptibility anticipated to be 30% to 80%;
  Red, intrinsic resistance or susceptibility anticipated to be <30%.
- 1, US Food and Drug Administration–approved agent;
  2, synthetic tetracycline derivative;
  3, imipenem-cilastatin–relebactam;
  4, synthetic aminoglycoside;
  5, polymyxin class.
- Abbreviations: KPC, Klebsiella pneumoniae carbapenemase; NDM, New Delhi metallo-β-lactamase.

Reference

1. Tamma PD, Hsu AJ. Defining the Role of Novel β-Lactam Agents That Target Carbapenem-Resistant Gram-Negative Organisms. Journal of the Pediatric Infectious Diseases Society. 2019 Jul; 8(3):251-260. DOI: 10.1093/jpids/piz002. PMID: 30793757; PMCID: PMC6601385.