Beta-lactamase Inhibitor Combination Antibiotics

- Beta-lactamase Inibitors
 - o inhibit the activity of beta-lactamase, but have little intrinsic antimicrobial activity
 - Examples Clavulanate, sulbactam, tazobactam, avibactam
- Antibiotic Medications
 - Amoxicillin Clavulanate (Augmentin)
 - only available oral
 - covers many gram + (non-MRSA), gram (no pseudomonas coverage), and anaerobes
 - initial antibiotic often given for bite wounds
 - Piperacillin -Tazobactam (Zosyn)
 - only available IV
 - covers many gram + (non-MRSA), gram (including pseudomonas), and anaerobes
 - Ampicillin Sulbactam (Unasyn)
 - only available IV
 - covers most strains of S. aureus (non-MRSA) and beta-lactamase-producing H. influenzae
 - covers some Enterobacteriaceae and anaerobes (including Bacteroides fragilis)
 - covers against many strains of Acinetobacter baumannii
 - Ceftazidime Avibactam (Avycaz)
 - only available IV
 - covers most Enterobacteriaceae (including those that produce AmpC beta-lactamase, ESBL, some Klebsiella pneumoniae and OXA-type carbapenemases- carbapenem-resistant Enterobacteriaceae- CRE)
 - Indicated for:
 - Complicated Intra-Abdominal Infections (cIAI)
 - Complicated Urinary Tract Infections (cUTI), including Pyelonephritis
 - Hospital-acquired Bacterial Pneumonia and Ventilator-associated Bacterial Pneumonia (HABP/VABP)

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