**RISK FACTORS FOR RESISTANT ORGANISMS**
- Antibiotics within the prior 30 days of diagnosis of nosocomial pneumonia
- Patient hospitalized >5 days before the diagnosis of nosocomial pneumonia was made
- Bronchiectasis
- Known family member with multidrug-resistant pathogen
- Documented colonization with resistant organisms
- Patient hospitalized for 2 days or more within prior 90 days of the diagnosis of nosocomial pneumonia was made
- Residence in a nursing home or extended care facility
- Chronic dialysis within the prior 30 days, home infusion therapy (including antibiotics), or home wound care
- Immunosuppression (cancer, AIDS, ESRD, end stage liver disease, end stage COPD, steroids, chemotherapy/radiotherapy)

**NOSOCOMIAL PNEUMONIA**
- Risk factors for resistant organisms: NO → **Group I**: Limited spectrum antibiotic therapy → Monotherapy
- Risk factors for resistant organisms: YES → **Group II**: Expanded spectrum antibiotic therapy → Combination therapy

**Gram-positive coverage**: Linezolid or Vancomycin

**Gram-negative coverage**: To be completed by each institution

**DAY 3**
**CRITERIA FOR SHORT COURSE THERAPY OF NOSOCOMIAL PNEUMONIA**
- Clinical Pulmonary Infection Score (CPIS) ≤ 6 on day 0 and day 3
- No severe sepsis or shock on any day
- No immunosuppression (e.g. chemotherapy-induced neutropenia, other immunosuppressive state, transplant, or splenectomy patients)

**CANDIDATE FOR SHORT COURSE THERAPY OF NOSOCOMIAL PNEUMONIA**
- YES → Discontinue antibiotics for nosocomial pneumonia
- NO → **CANDIDATE FOR DE-ESCALATION THERAPY**
  - If a pathogen was isolated: narrow spectrum to perform pathogen directed therapy
  - If cultures negative for MRSA: discontinue anti-MRSA therapy (Vancomycin or Linezolid)
  - If cultures negative for *P. aeruginosa*: discontinue 2nd agent (Tobramycin, Amikacin or Ciprofloxacin)
  - If cultures positive for *P. aeruginosa*: discontinue 2nd agent after patient clinically improved
  - Evaluate daily for Switch Therapy

**DAY 8**
**CRITERIA FOR DISCONTINUATION OF ANTIBIOTICS**
(daily evaluation)
- Patient clinically improved
- No *P. aeruginosa* isolated
- No *Acinetobacter* isolated

- YES → **Stop antibiotics**
- NO → **Evaluate daily for the possibility to stop antibiotics**
  - Total antibiotic therapy should not exceed 14 days