

**Antibiotic therapy with
Ventilator -associated pneumonia
Hospital - acquired pneumonia**

Critical illness

- 1. Septic shock
- 2. ARDS preceding VAP or HAP

IV antibiotics within the past 90days

N

Y

Risk for MDR pathogen

No risk for MRSA & CRAB

Risk for CRAB pathogen

- 1. CRAB isolates within the previous 90 days
- 2. CRAB outbreak in treatment unit

Risk for MRSA pathogen

- 1. MRSA isolates within the previous 90 days
- 2. MRSA outbreak in treatment unit

N

Y

Piperacillin-tazobactam, cefepime, levofloxacin

Antipseudomonal-lactatam (piperacillin-tazobactam, cefepime) +ciprofloxacin or levofloxacin

Levofloxacin, ciprofloxacin +brosym or colistin or teigecyline

Antipseudomonal-lactatam (piperacillin-tazobactam, cefepime, meropenem) +ciprofloxacin or levofloxacin +vancomcin or teicoplanin

Antibiotics dosage for HAP and VAP (normal renal function)

Piperacillin –tazobactam 4.5g q6h IV

Cefepime 2g q8h IV

Levofloxacin 750mg q24h IV

Ciprofloxacin 400mg q8h IV

Brosym 4g q12h IV

Meropenem 500mg q8h IV

Colistin 300.6mg IV loading then 167mg

Teigecyline 100mg IV loading then 50mg q12h

Vancomycin loading dose 25-30mg/kg then 15mg/kg IV(target level 15-20mcg/ml)

Teicoplanin 6mg/kg q12h IV