

# Early Screening of Risk for Multi-drug Resistant Organisms in Emergency Department Benefits the Prognosis of Septic Patients with Pneumonia



Late MDROs Screen



Early MDROs Screen



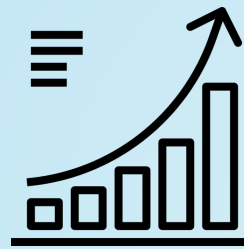
## Septic Pneumonia

### Group A

MDROs screen within 6 hours, ABX within 1 hour  
 ATS/IDSA '05, Taiwan '07, Sepsis '12 guidelines  
 Enrollment 07/01/13 - 06/30/16

### Group B

MDROs screen within 1 hour, ABX within 1 hour  
 ATS/IDSA '16, Taiwan '18, Sepsis '16 guidelines  
 Enrollment 07/01/16 - 06/30/19



X



MDROs Risk

## Four-Group Comparison

### Disease Outcomes

Primary: ICU/ in-hospital/ 28-day mortality  
 Secondary: ABX, multi-drug Tx rate & others

### Confounding Factors

CURB-65, SOFA, sepsis, serum lactate & others



High Risk HCAP/NHAP & HDAP



(Low Risk) Simple NHAP & CAP



## Summary

### MDROs Screen Influences Outcome



Delayed ED appropriate ABX  
 ICU mortality ↑↑  
 ICU Multi-drug Tx ↑↑

Early screen within 1 hour in environments with high MDROs prevalence is recommended