

## **Emerging Antimicrobial Resistance In Asia Pacific Region**

**Dr Suresh Kumar**

Consultant infectious diseases physician  
Hospital Sungai Buloh

Resistance demands more resource utilization and is associated with patient morbidity and death. While staphylococcus aureus continues to be major pathogen in orthopedic infections, the rise of multidrug resistance (MDR) gram negatives is causing great concern. Carbapenam resistance was already wide spread in the region amongst Pseudomonas and Acinetobacter. However in the recent years, the rise of carbapenam resistance in enterobacteriaceae is worrying. Moreover the carbapenam resistance is plasmid mediated. What this means is that bacteria can easily exchange this resistance mechanisms and wide spread of this resistance is expected.

Carbapenam resistance has resulted the increased reliance on Polymyxin as the last bastion for fighting these infections. There has been worrying reports of Polymyxin resistance enterobacteriaceae reported in the Asia Pacific region with visions of going back to pre-antibiotic era.