### **A Multi-disciplinary**

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#### **Objectives**

- To *assess appropriateness* of antimicrobial use [mainly *Carbapenems and IV Fluoroquinolones (IVFQ)*]
- To optimize antimicrobials use via suggestion/feedback to case doctor

#### Schedule of the meeting

- Twice weekly (Tue & Fri)
- 30 mins (11:30 am 12:00 pm)

#### **Team members**

- Microbiologist (Dr W K Luk)
- Medical Doctors (Dr C K Lau; Dr C F Choy)
- Pharmacists (J Chen, H Y Koo, L K Lui)

# Methodology

Monitoring of feedback acceptance & further FU



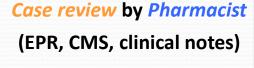
Pharmacy Interns
identify cases of
Carbapenems /IVFQ



to Case MO for consideration



(2x/wk, 30mins)





- Review Period:
   5/2016 12/2016
   (8 months)
- Inclusion Criteria:All inpatient wards
- Exclusion Criteria:
   ICU/CCU/HDU/
   EMW/Paed/
   Day Care Units
- Major Target Abx:
   Carbapenems & IVFQ



## Results: Acceptance & Financial Savings

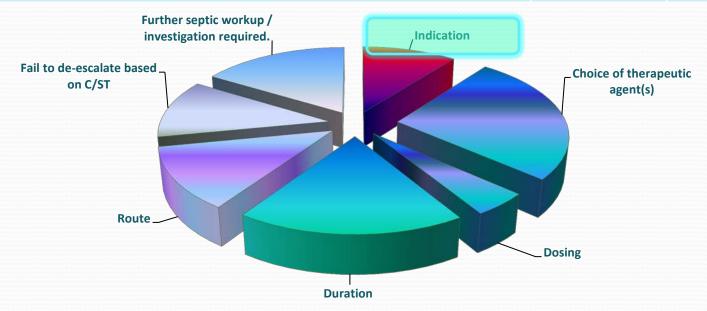
1 May 2016 - 31 Dec 2016

Targeted antibiotic groups	No. cases prescribed	No. of cases reviewed (%)	No. of cases w/ feedback (%)	No. of acceptance (%)
Carbapenems, IVFQ	602	328 ( <b>54.5</b> %)	137 (41.8%)	97 ( <b>70.8</b> %)

	Drug utilization as Defined Daily Dose "DDD" (2015 vs 2016)	Reduction of drug expenditure (2015 vs 2016)
Carbapenems	<b>25.1</b> versus <b>19.5</b> DDD/1000 BDO	<b>\$235,740</b> (-37.7%)
IVFQ	7.92 versus 5.62 DDD/1000 BDO	<b>\$13,334</b> (-19.8%)

## Results: Types of feedback (n=153)

Categories	No.	%
Indication	16	10.5
Choice of therapeutic agent(s)	40	26.1
Dosing	7	4.6
Duration	28	18.3
Route	19	12.4
Fail to de-escalate based on C/ST	18	11.8
Further septic workup / investigation required	25	16.3



## **Conclusion – Multi-disciplinary ASP Round**

- Significantly reduce inappropriate/unnecessary use of antimicrobials
- Enhance clinical safety, governance & quality of patient care
- Promote substantial financial savings
- Provide education and regular updates on antibiotic prescribing