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Keywords: Keyword one, keyword two, keyword three, keyword four, keyword five max

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Presenter (title and name):

Abstract sample

**The Pattern of Aminoglycoside, Meropenem, and Vancomycin Prescriptions in Inpatients at a Regional Public Hospital in Yogyakarta, Indonesia**

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Aminoglycosides are a class of antibiotics used mainly in the treatment of bacterial with the mechanism of protein synthesis inhibition inside bacteria. Meropenem and vancomycin have the same mechanism of action that inhibiting cell wall bacteria activity.
This study aimed to know how aminoglycoside, meropenem, and vancomycin were used for diagnosis, as well as their dosage and duration of administration during the year 2017 at regional public hospital in Yogyakarta. The study was conducted to see more broadly the profiles of aminoglycoside classes, meropenem, and vancomycin were administered to the patients. Data collection was performed retrospectively using patient medical record data analysis for the diagnosis, doses, and duration of administrations. The results of the study showed that total patients who received aminoglycoside, meropenem, vancomycin antibiotics in 2017 who had met the criteria were 75:46:13 patients (respectively). Based on the most diagnosis which used these antibiotics, aminoglycoside was used for sepsis (50%), then pneumonia and bronchopneumonia (26.70%). Meropenem was used for sepsis with a percentage of 45.54% and vancomycin used for pneumonia was 15.38%. Based on the appropriate dose of the guideline, the use of aminoglycoside was 100% appropriate while meropenem only 42.22% and vancomycin was only 69.23%. Based on the duration of appropriate use the highest power duration is 10 days with the percentage of 86.70% for aminoglycoside, the most duration of administration for ≤7 days with a percentage of 56.52% for meropenem and the duration of appropriate use 61.54% for vancomycin. Aminoglycosides, meropenem, and vancomycin are appropriate to the diagnosis but the discrepancies in the dosage and duration of the antibiotic treatment were still found during the treatment.

Keywords: Aminoglycoside, Meropenem, Vancomycin, Antibiotics

Preferred presentation: X Oral ☐ Poster

Presenter (title and name): Dr. Mutiara Herawati