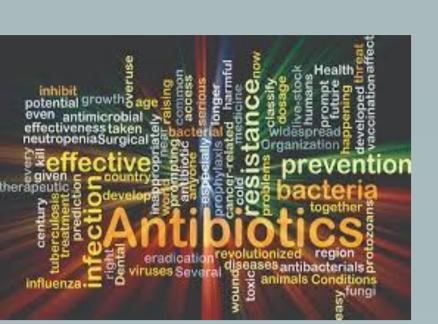


25th Anniversary Congress of the European Association of Hospital Pharmacists, 23-28 March 2021

VARIATIONS IN CONSUMPTION OF ANTIMICROBIALS IN INTERNAL MEDICINE WARDS OF HOSPITALS



- 1. Hospital Pharmacy, Spiliopoulio Hospital, Athens, Greece
- 2. Hospital Pharmacy, "Korgialenio-Benakio" Red Cross General Hospital, Athens, Greece



Comparison:

Background and Importance :

- Relationship between rates of antibiotic use and emergence of antimicrobial resistance is often observed, documented and described
- Evaluation and analysis of consumption of antimicrobials in relation to variability in the general hospital environment support decision making in the choice of the appropriate therapeutic regimen

Materials and Methods:



 Presence of variations in consumption of antimicrobials in internal medicine wards



Antibiotic consumption of 3 internal medicine wards (2 clinics in a general hospital + 1 semi autonomous (independent) clinic) as Daily Defined Doses per 100 boddex(a (DDDa/100bBD))

ATC code: Jo1 Antibacterials for systemic use



Investigation of potential variables in the choice of therapeutic regimen

100 beddays (DDDs/100bBD)

Average length of stay (LOS) of patients in 2019, in the 3 internal medicine wards of the same healthcare region

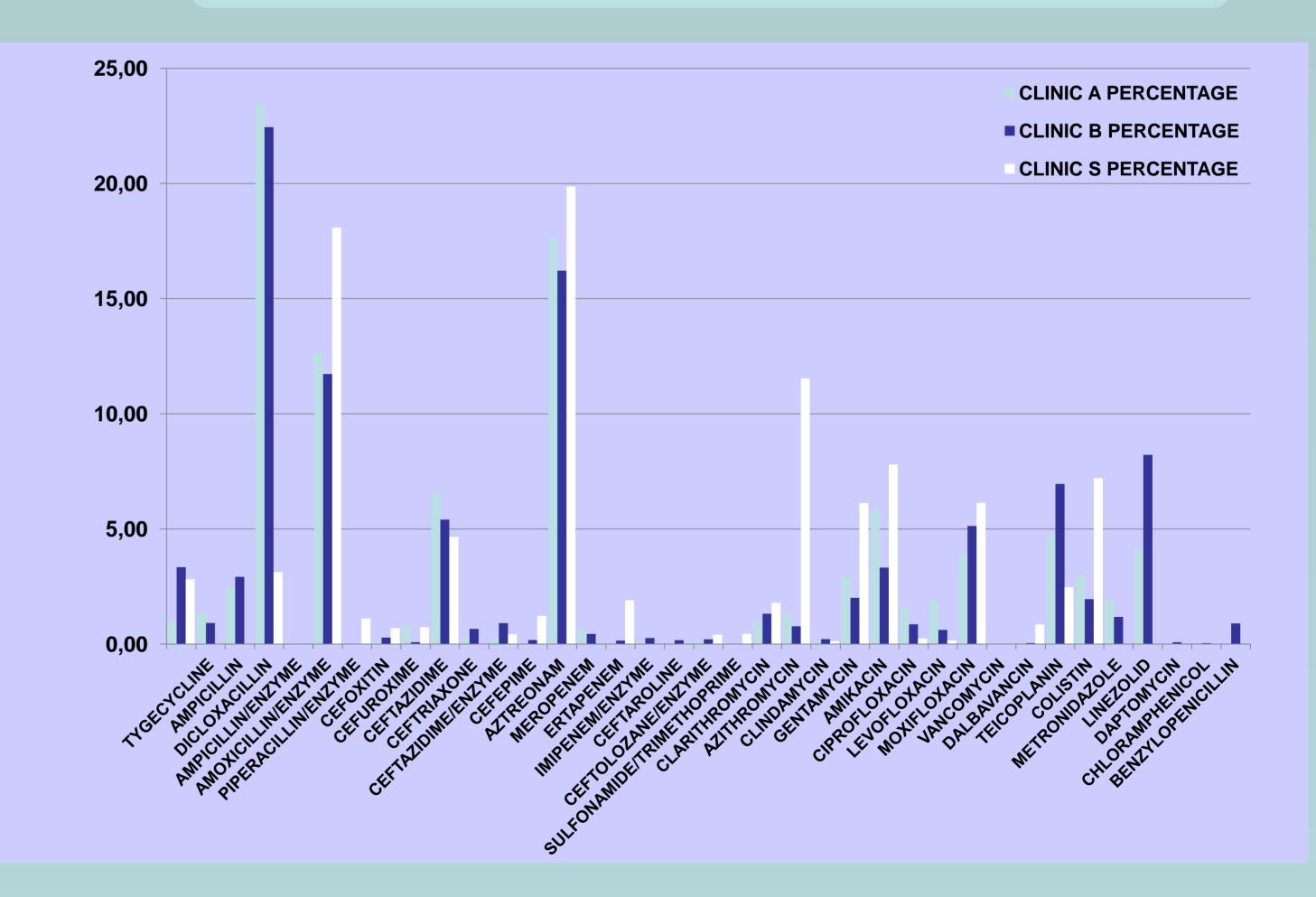
Results

WARD	CLINIC A (GENERAL HOSPITAL)	CLINIC B (GENERAL HOSPITAL)	CLINIC C (INDEPENDENT)
BED DAYS	13576	16881	6380
NUMBER OF PATIENTS	1522	1714	265
AVERAGE LENGTH OF STAY (days)	8,92	9,85	24,07
ANTIBIOTIC INDEX (DDDS/100BD)	176,53	184,03	38,12
NUMBER OF ANTIBIOTICS USED	33	35	25
EMERGENCY ADMISSIONS	>90%	>90%	<5%
MOST USED ANTIBIOTICS	AMPICILLIN/SULBACTAM MEROPENEM PIPERACILLIN/TAZOBACTAM	AMPICILLIN/SULBACTAM MEROPENEM PIPERACILLIN/TAZOBACTAM	MEROPENEM PIPERACILLIN/TAZOBACTAM CLINDAMYCIN

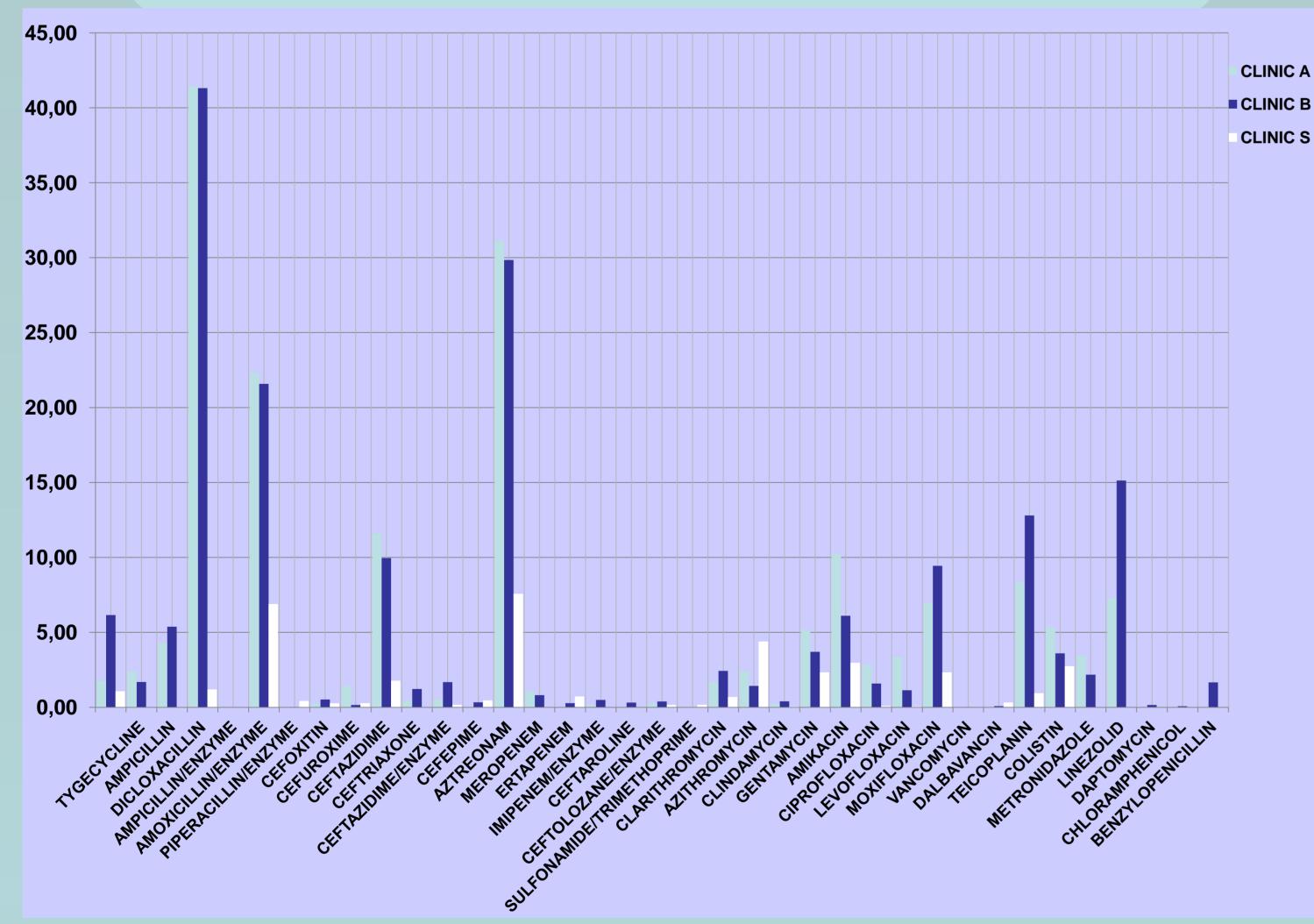
DDDs/100BD: Daily Defined Doses per 100 beddays

ANTIBIOTICS CONSUMPTION IN INTERNAL MEDICINE WARDS

ANTIBIOTICS CONSUMPTION AS PERCENTAGE (%) OF THE TOTAL INDEX



(DDDs/100BD)







Only small differences in the choice of therapeutic regimen within each hospital internal medicine wards

Gignificant variations in choice of antimicrobials between hospitals need to be attributed

□ Variables (e.g. intensive care profile, increased probability of multiresistant pathogens) related to the general hospital environment may explain the observed variations

Such variables should be considered in antimicrobial stewardship programs and/or other initiatives

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