CPC-013 Analysis of antifungal use and cost in a specialist hospital during the last three years (2009-2011)

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processed.

BACKGROUND

Although antifungal constitute a small part of the antimicrobial drugs utilized in hospitals, proportionally their cost result high. Therefore, utilization antifungal analysis is important in order to achieve optimal clinical outcomes by a suitable management of resources.

PURPOSE

To analyze antifungal use and cost in a specialty hospital during last three years (2009-2011).

MATERIALS AND METHODS

Study period: 2009-2011

- **Data:** 1. Utilization data of
 - J02AA-antibiotics antimycotics for systemic use
 - J02AC-triazole antimycotics for systemic use
 - J02AX-other antimycotics for systemic use
- 2. Stay-days data
- 3. Consumption economics values

•Stay-days data were obtained from hospital healthcare activity records.

- Consumption values were extracted from pharmacy management
- SINFHOS computer-application.
- DDDs calculation was automatically made using EDUS_SUR application.

DDD (WHO-ATC Index 2012)		
	DRUG	DDD
J02AA	Amphotericin-B	35 mg
J02AC	Fluconazole	0,2 g
	Itraconazole	0,2 g
	Voriconazole	0,4 g
	Posaconazole	0,8 g
J02AX	Caspofungin	50 mg
	Micafungin	0,1 g

Antifungal consumption was analyzed in economics terms and

Whole hospital and broken down by clinical unit data was

•WHO-ATC/DDD Index 2012 was used for DDDs calculations.

Results were expressed in DDD/100 Stay-days (DDDs/100SD)

Defined Daily Doses number (DDDs).

RESULTS

• During last three years, antifungal use expressed in DDDs/100SD was 6,72%, of anti-infective drugs utilization.

• Antifungal cost represented 43,59% of total antimicrobial cost.



•Antifungal use raised especially in Infectious, which increased from 7,74 DDDs/100SD in 2009 to 21,72 DDDs/100SD in 2011.



•Antifungal selection evolution was observed: fluconazole use increased from 1,31 to 3,71 DDDs/100SD, and amphotericin-B use raised from 1,31 to 2,90 DDDs/100SD, while caspofungin use decreased from 0,63 to 0,33 DDDs/100SD.

CONCLUSIONS

 Systemic Antifungal cost represents nearly half of anti-infective drugs expense in our hospital.
Efforts in order to assure optimal use of antifungal must be reinforced In Haematology, Intensive Care, Infectious and Oncology, by proposing prophylaxis and treatment clinical guides or protocols use. eahp

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