

USE OF VANCOMYCIN: CURRENT PRACTICES IN A PAEDIATRIC HOSPITAL

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### **BACKGROUND**

Vancomycin is a time-dependant antibiotic usually active on Gram-positive bacteria. An early identification and a monitoring of vancomycin blood-concentrations must be made. Actually, there is no specific guidelines for pediatric population.

## **OBJECTIVE**

Assessment of vancomycin prescriptions and blood-concentration monitoring in a pediatric hospital to propose local recommendations of good practices

### **METHODS**

Retrospective analysis of computerized vancomycin prescriptions (> 2 days), from January to December 2016

**Demographic data** 

Blood-concentration monitoring

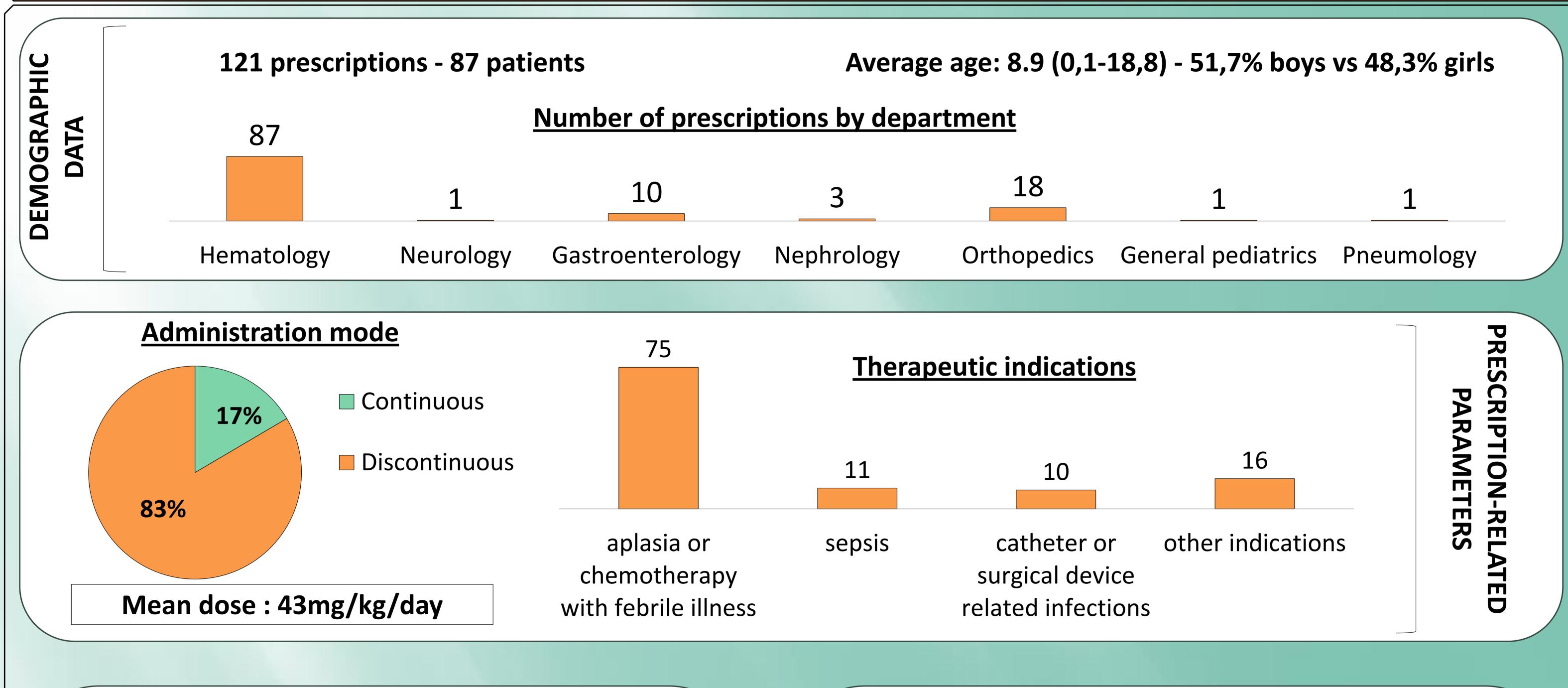
Additional medical data:

- ✓ renal function
- ✓ bacteria identification

Prescriptions-related parameters:

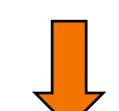
- ✓ therapeutic indications
- ✓ dosage
- ✓ administration mode

### RESULTS



# VANCOMYCIN BLOOD-CONCENTRATIONS MONITORING

77 monitoring requested



66/77 (85,7%) out of target values



38/66 (57,6%) reassessed (dose adjustment or prescriptions stopped)

# ADDITIONAL MEDICAL DATAS

### **Bacteria identification**

Negative culture results for 52.1% prescriptions

No identification requested for 5% of the prescriptions

### **Renal function**

No Glomerular Filtration Rate (GFR) for 5.8% of prescriptions GFR > normal values for  $6.6\% \rightarrow all$  prescriptions were stopped

### CONCLUSION

The lack of vancomycin blood-concentrations follow-up, dose adjustments and the prescription heterogeneousness justify the establishment of local recommendations of good practices

This work will lead to discuss new recommendations for vancomycin use with the infectious diseases team