

Conformity of antibiotic therapy duration in patients with febrile neutropenia, hospitalised in the haematology department of a university hospital



4CPS - 050

#### M. Ravey <sup>1</sup>, S. Robert <sup>1</sup>, S. Hénard <sup>2</sup>, B. Demoré <sup>1,3</sup>

Pharmacy department – University hospital of Nancy – Rue du Morvan, 54500 Vandœuvre-Lès-Nancy, France
 Infectious Diseases department - University hospital of Nancy – Rue du Morvan, 54500 Vandœuvre-Lès-Nancy, France
 University of Lorraine – APEMAC, F-54000 – Nancy, France
 m.ravey@chru-nancy.fr

## INTRODUCTION

# The emergence of bacterial resistance and the proper use of antibiotics are major public health issues.

In 2011, the European Conference on Infections in Leukemia published new recommendations for the management of febrile neutropenia.

## OBJECTIVES

To evaluate the **conformity** of the **duration of antibiotic therapy** in patients with febrile neutropenia, hospitalised in the haematology department of a university hospital.

## MATERIAL & METHODS

## **Study characteristics**

- Monocentric, retrospective, observational
- Six-month period
- Haematology departement:
   44 beds

#### **Data collection**

## 72-hour apyrexia date

- ★ Extraction from the sofware
   DxCare<sup>™</sup>
- Collection form
- Haematological malignancy
- Nature of the infection
- Duration of antibiotic therapy

## **Compliance criteria**

- Undocumented infection:
- Discontinuation of antibiotic therapy at 72 hours of apyrexia
- Documented infection:
- Adaptation and discontinuation of antibiotic therapy, according to the recommendations of the local antibiotic guidelines

## **RESULTS & DISCUSSION**

Population	Nature of the infection	Probabilistic antibiotic therapy	
N= 90 patients	Undocumented infection: 61 (69%)		
49 <b>d</b> (54%)	Documented infection: 29 (31%)	8 (9%)	Monotherapy of Cefepime
41 <b>Q</b> (46%)	<ul> <li>Microbiological: 23 (25%)</li> <li>Clinical: 6 (6%)</li> </ul>	28 (31%)	



**fragility** of haematology patients and the fear of being confronted with a **recurrence of the infection** 



To harmonize prescription duration and prevent the emergence of bacterial resistance



## A guide to correct use of antibiotics and a second prospective study should be considered



25th EAHP Congress, 25-27 March, Gothenburg, Sweden