

## **Development and implementation of a** pharmaceutical consultation in a pediatric hematology unit: a pilot study



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### Introduction

Pediatric hemato-oncology → highly specialized and toxic treatment protocol

Prior studies → children who have more information and education about their disease & medication are better equipped to cope with their illness [1]

PURPOSE: TO DEVELOP AND IMPLEMENT A PHARMACEUTICAL CONSULTATION FOR CHILDREN AND THEIR PARENTS IN AN HEMATOLOGY UNIT

### Material & Methods

#### **Pharmaceutical** consultations

- Period : July to September 2011
- Place : Robert Debré hospital (pediatric teaching french hospital)
- · Actors : pharmacist resident and/or senior pharmacist

### **Patients**

- ≤ 18 years and their care giver
- · Admitted with cancer
- In hemato-oncology unit
- With ≥ 1 medication
- · At admission or discharge

### Consultation content

- 30 to 40 min
- Medication history
- Interview addressing:
- medication prescribed, name & role.
- · how to manage side effects, medication omission and adherence

#### **Evaluation**

- Pharmacist Medication history necessity
- Medication knowledge
- Main drugs related problems and . pharmaceutical interventions
- Pharmacist intervention usefulness (evaluate by 2 pharmacists)

## Results

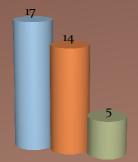
### 15 interviews

6 patients (≥6y), 15 care givers, Mean age: 6 years, 11 girls, 4 boys, 7 at admission, 8 at discharge Main inclusion protocols: FRALLE 2000 (4), EORTC, LMB 2001, Euro LB 02, Interfant 06

No medication history mistake

Medication knowledge: inadequate 1/3, Intermediate 1/3, good 1/3

# Drug-related problems (n = 36)

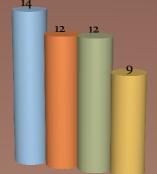


- improper drug selection
- failure to administer drug properly

Pharmaceutical intervention Usefulness (n=47)

failure to administer oral chemotherapy properly

### Pharmaceutical intervention (n=47)



- drug information
- administration modalities optimization

adherence optimization

### Conclusion

FREQUENCY, NATURE AND IMPACT OF PHARMACEUTICAL INTERVENTION + LOW MEDICATION KNOWLEDGE JUSTIFY TO IMPLEMENT THIS PHARMACEUTICAL CONSULTATION

→ to determine indicators to assess the Medication Use Review process with patients at discharge Next steps

→ to develop tools contributing to improve patient safety

maior

minor

→ structuring a therapeutic patient education program Perspectives

moderate

[1] Clarke SA, Davies H, Jenney M, et al. Parental communication and children's behaviour following diagnosis of childhood leukaemia. Psychooncology 2005;14:274-281