

# Pharmacist's interventions to improve drugs supply and parents' knowledge at paediatric hospital discharge

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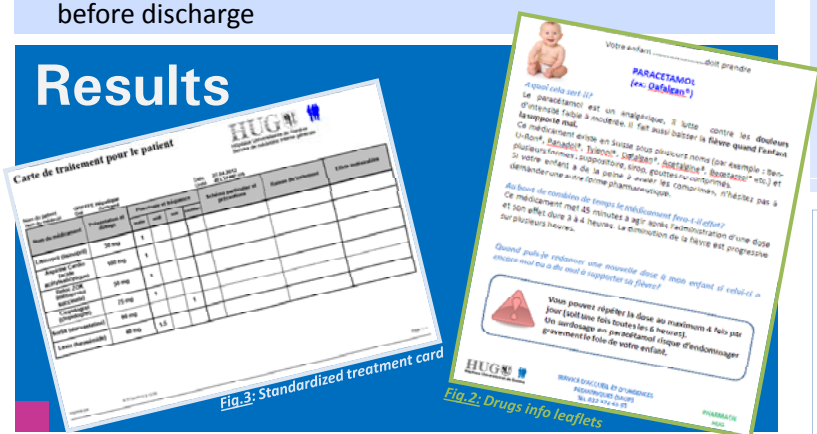
## Introduction

Discharging paediatric patients from hospital is a complex process that can lead to non-compliance and medication-related problems. Crucial issues are drug supply in community pharmacies and patients knowledge of treatments. An intervention of a pharmacist at the time of hospital discharge may improve continuity of care.

## Purposes

- ❖ **Phase A:** To quantify problems of drug supply and parents' knowledge of treatment at hospital discharge
- ❖ **Phase B:** To implement and assess targeted interventions before discharge

## Results



## Method

- ❖ Inclusion: French-speaking paediatric patients (<16 years) discharged from paediatric emergency department (ED) and medicine ward (MED) **before** (Phase A: ED: 05/10 - 06/10; MED: 11/10-12/11) and **after** (phase B ED: 03/13 - 04/13; MED: 11/12-04/13) interventions based on phase A results
- ❖ Evaluation of drug supply and parental correct knowledge of treatment (dose, frequency, duration, indication)

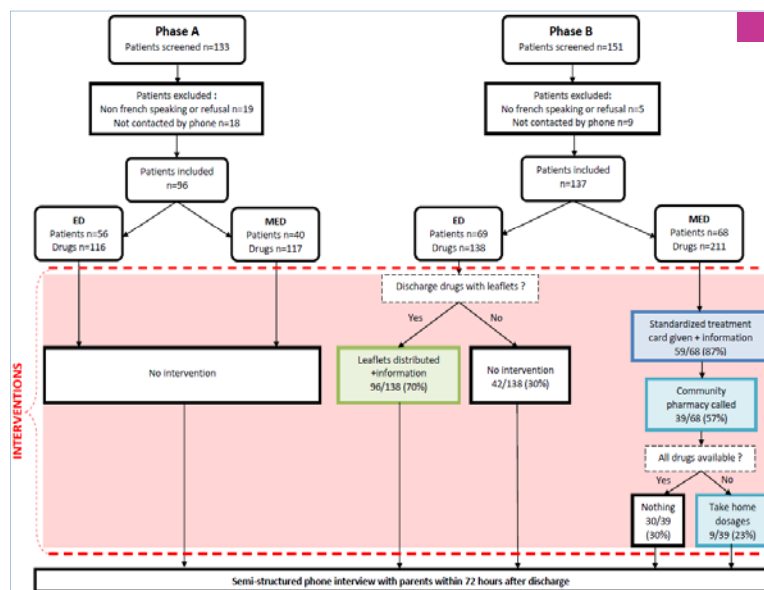


Fig. 1: Patients inclusion and interventions

## Conclusion

- ✓ Customized drugs **information leaflets** or **treatment cards** given with information at paediatric hospital discharge improved strongly parental knowledge of treatment
- ✓ **Calling community pharmacy** in MED to ensure that drugs were in stock had no impact on drug supply after hospital discharge
- ✓ Further studies would identify more effective strategy to improve drug supply

Tab. 1: Drug supply at community pharmacy (\*\* missing data)

	Phase A (N=56)	Phase B (N=69)	P	Phase A (N=40)	Phase B (N=68)	P
<b>Drugs supply</b>						
	ED			MED		
<b>All drugs obtained immediately</b>	47/56 (83.9%)	52/68 (76.5%)**	0.37	28/40 (70.0%)	43/67 (64.2%)**	0.67
<i>If not, reasons</i>						
Not in stock	4/9 (44.4%)	1/16 (6.3%)		7/12 (58.3%)	12/24 (50.0%)	
Not fetched	2/9 (22.2%)	14/16 (87.5%)		2/12 (16.7%)	10/24 (41.7%)	
Other	3/9 (33.3%)	1/16 (6.3%)		3/12 (25.0%)	3/24 (12.5%)	
<b>Drugs obtained later</b>	4/9 (44.4%)	2/16 (12.5%)		9/12 (75.0%)	14/23 (60.9%)**	
<i>If later, delay:</i>						
< 1 hours	0/4 (0.0%)	1/2 (50.0%)		0/8 (0.0%)**	1/13 (7.7%)**	
< 1/2 day	1/4 (25.0%)	0/2 (0.0%)		0/8 (0.0%)**	1/13 (7.7%)**	
< 1 day	1/4 (25.0%)	0/2 (0.0%)		1/8 (11.1%)**	2/13 (15.4%)**	
> 1 day	2/4 (50.0%)	0/2 (0.0%)		5/8 (55.6%)**	6/13 (46.2%)**	
> 3 days	0/4 (0.0%)	1/2 (50.0%)		2/8 (50.0%)**	4/13 (30.8%)**	

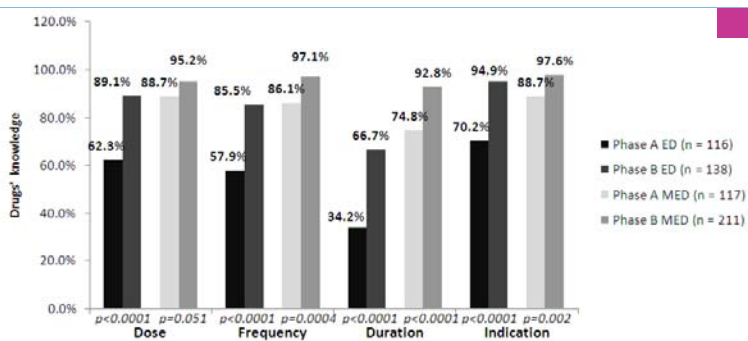


Fig. 4: Parents' treatment knowledge

