Drug information leaflets improve parental knowledge of their child’s treatment at paediatric emergency department discharge

Kaestli LZ1,2, Noble S1, Combescur C3, Lacroix L4, Galetto A4, Gervaix A4, Fonzo-Christe C1, Bonnabry P1,2

1Pharmacy, University Hospitals of Geneva, Geneva, Switzerland
2School of Pharmaceutical Sciences, University of Geneva, University of Lausanne, Geneva, Switzerland
3Clinical Research Centre and Division of Clinical Epidemiology, University Hospitals of Geneva, Geneva, Switzerland
4Paediatric Emergency Department, University Hospitals of Geneva, Geneva, Switzerland

Background: Hospital discharge is a complex multidisciplinary process that can lead to non-compliance and drugs-related problems. Crucial issue for children is parental knowledge of discharge treatments, especially in the time-limited and stressful environment of an emergency department (ED).

Objective: To compare parental correct knowledge of treatment with and without supply of customized drug information leaflets for the 10 most common prescribed drugs.

Method: Inclusion criteria: paediatric patients (0-16 years) with French-speaking parents discharged from Emergency Department of the pediatric department of Geneva University Hospitals (HUG) before (phase A) and after (phase B) intervention.
Intervention: supply and brief comment of drug information leaflets focusing on specific information not available in official drugs information documents.
Follow-up: semi-structured phone interview within 72 hours after discharge to evaluate the % of parents with correct knowledge of dose, frequency, duration and indication of drugs. Multivariate analysis to identify factors associated with correct knowledge (phases A/B, drugs collection at usual pharmacy, drugs categories).

Results: 125 patients were included (phase A: 56; phase B: 69). Drug information leaflets were given to 63/69 (91%) ED patients, covering 96/138 prescribed drugs (70%). Parental knowledge was significantly improved in phase B (dose: 62.3% to 89.1%; frequency: 57.9% to 85.5%; duration: 34.2% to 66.7%; indication: 70.2% to 94.9%; p<0.0001). Phase B and collection of drugs at usual pharmacy were significant factors associated with correct knowledge.

Conclusion: Drug information leaflets significantly improved treatment knowledge of French-speaking parents after paediatric emergency department discharge. Leaflets are available online for general population on http://www.monenfantestmalade.ch/fiches/categorie/mon-enfant-doit-prendre-un-medicament.

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Contact: Laure.Z.Kaestli@hcuge.ch