



## **EVALUATION OF PHYSICOCHEMICAL COMPATIBILITIES DURING INTRAVENOUS DRUG ADMINISTRATION** IN TWO PAEDIATRIC INPATIENT AND OUTPATIENT ONCOLOGY UNITS

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## BACKGROUND

Chemotherapeutic agents and other intravenous (iv) drugs are often administered to paediatric oncology patients through a unique implantable vascular access port. Drug administration and compatibility charts are available in the paediatric oncology units of our hospital.

## **OBJECTIVES**

The aim of this study was to identify the iv drug associations used in children and adolescents and to determine if the drugs were injected or infused according to known compatibility data.

## **METHODS**

Design: Anonymous observational prospective study during a 6-month period. Cytotoxic drugs were prepared by the pharmacy. For each patient, all iv drugs were recorded, as well as drug concentration, solute, administration rate and mode of administration. Nurses were also interviewed by the pharmacist. Data were compared with published data [1-3].

Setting: Two paediatric inpatient and outpatient oncology units of a university hospital.

Main Outcome Measures: Compatibilities between drugs administered through the same iv line: drug-drug and drug-solute associations in the same infusion (mixture) and through Y-site.



[1] Compendium Suisse des Médicaments. Bâle : Documed. 2006. [2] Trissel LA. Handbook on Injectable Drugs. 12th ed. Bethesda : ASHP. 2003. [3] King JC et al. Guide to parenteral admixtures. St-Louis : Hudnell. 2004-6.

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