



## Service Priorities and Programmes Electronic Presentations

**Convention ID:** 153

**Submitting author:** Ms Lun YUNG

**Post title:** Pharmacist, Tuen Mun Hospital

### **Optimization of Kids' Pharmaceutical Care in Tuen Mun Hospital, NTWC**

*Yung L(1), Lau WC(1), Leung SL(1), Lam YY(1), Ma FT (1), Young WM(1), Tam HY(1),  
Chu LM(1), Chau SC(2), Lam SY(2), Kwong NS(2)*

*Department of Pharmacy(1), Department of Paediatrics & Adolescent Medicine(2),  
TMH, NTWC*

#### **Keywords:**

Paediatric

Clinical Pharmacy Service

#### **Introduction**

Children are not little adults. Paediatric medication management not only involves highly sophisticated therapeutic regimens but also meticulous computations. Multidisciplinary approach is believed to be the best approach to improve the care of patients. Since the year 2012, paediatric clinical pharmacists have joined the multidisciplinary paediatric team to enhance the pharmaceutical care of our paediatric patients. In Tuen Mun Hospital, clinical pharmacy services are provided to paediatric and neonatal intensive care unit (PICU/NICU), special care baby unit (SCBU), haematology unit and two general paediatric wards.

#### **Objectives**

To review the impact of clinical pharmacists on pharmaceutical care provided to paediatric patients in Tuen Mun Hospital

#### **Methodology**

Pharmaceutical care related recommendations, clinical services provided and medication utilization related initiatives were reviewed to assess the impact of clinical pharmacists on pharmaceutical care provided to paediatric patients.

#### **Result**

On average, over 400 recommendations were made by clinical pharmacists per year with over 95% acceptance rate. Among the recommendations, 22% were related to parenteral nutrition and 78% were related to medication.

Besides, paediatric clinical pharmacists have input into many different aspect of medication use process to enhance the medication safety, effectiveness and efficiency:

Coordinated the establishment of the computerized medication order entry with dose calculator and maximum dose bounding in the clinical information system of NICU/ PICU

Coordinated the establishment of the web-based paediatric resuscitation calculator

- Coordinated the establishment of the paediatric antibiotic stewardship programme (Vancomycin)
- Introduced the SCBU standardized intravenous fluid formula
- Formulated dosage & intravenous medication administration guidelines, including neonatal dosage guidelines, PICU/NICU/Haematology/General Paediatric intravenous medication administration guidelines, etc.
- Prepared paediatric patient safety tips and medication administration record prescribing guideline
- Provided pharmaceutical education to paediatric patients, carers and other health care professionals through talks, presentations, individual counselling and drug information services.