Establishment of the Web-based Paediatric Resuscitation Calculator in Department of Paediatrics & Adolescent Medicine in Tuen Mun Hospital, NTWC

Lau WC(1), Yung L(1), Leung SL(1), Cheung ST(1), Young WM(1), Tam HY(1), Chu LM(1), Sheh K(2), Kwee Y(2), Chau SC(2), Wong OY(2), Ting YW(2), Yeung KY(2), Lam SY(2), Kwong NS(2), Au Yeung KL(3), Law CH(3)

Department of Pharmacy(1), Department of Paediatrics & Adolescent Medicine(2), Information Technology section(3), TMH, NTWC

Presented by: Jenny Lau
Paediatric Clinical Pharmacist
Department of Pharmacy
Tuen Mun Hospital
• A program for calculating drug doses for emergency medications → accuracy + timely

Objectives:
• Web-based program
• With updated drug information
• With increased number of drug items of emergency drugs
A multi-disciplinary team was formed:
- Paediatric intensivists
- Nursing specialist
- Clinical pharmacists
- Information Technology professionals

The content was updated based on:
- Latest international guidelines
- HA clinical guidelines
- Standard drug references
Results and Outcome

• New version of Resuscitation calculator:
  – **Web-based** computer program
  – With **updated** drug information
  – With **expanded scope** of drugs (i.e. drugs for Resuscitation/Status Epilepticus/Intubation, etc.)
New features are added: to enhance **Medication Safety**

- Maximum dose and concentration bounding
- Out-of-range body weight pop up reminder
- Tall-man lettering and zebra-colour