



Service Priorities and Programmes Electronic Presentations

Convention ID: 310

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Post title: Advanced Practice Nurse, United Christian Hospital

1-Year Review after Implementation of Inpatient Medication Order Entry (IPMOE) System in Acute Hospital

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Keywords:

Inpatient Medication Order Entry

IPMOE

Medication incident

Medication safety

Introduction

Medication safety is always in our hands. In January 2016, Inpatient Medication Order Entry (IPMOE) aims to improve medication safety has been implemented at United Christian Hospital (UCH); total six departments with thirty-one wards involving over 1000 inpatient-bed services have been rolled out the new system. In this instance, the outcomes are being studied to figure out the provision of initiatives.

Objectives

To assess and evaluate the outcomes after implementation of IPMOE system in accordance with the number of medication incidents on prescribing error, dispensing error and administrative error.

Methodology

Following with the implementation of IPMOE system at UCH, the data on the number of medication incidents was retrieved from three aspects including prescribing error, dispensing error and administrative error. By comparing the data in the same quarter during 2015 (before implementation) and 2016 (after implementation) respectively, the medication errors were reviewed so as to define the outcomes.

Result

IPMOE is a new system to assist doctors, pharmacists and nurses in daily practice. With the tailor-made functions under prescribing module, dispensing module and administrative module of IPMOE system, it drives different intensity levels of improvement. By comparing the rate of medication incidents at same quarter in 2015 (before implementation) and 2016 (after implementation) respectively, the number of prescribing errors has been decreased up to 66% obviously; the number of dispensing errors has been decreased up to 15%; and the number of administrative errors has also been decreased up to 49%.

Despite the integration of IPMOE enhancing the medication safety, the professional

judgment and clinical decision can never be replaced. To further strengthen the medication safety, the automatic Unit Dose System with build-in IPMOE 2D barcode on drug packing will be launched by Pharmacy Department which will be piloted at M&G ward in 2017 at UCH. Medication safety can be to strive with our professional decision and the application of technology simultaneously ahead.