The effect of time saving on Alert reminder of STAT order’s Nursing Information System

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Introduction

• Timely and time-saving’s clinical message are the IOM’s key factors. Functions of Alert and reminder are the decision-making support system’s valuable element. However, it affects on Nurse performing of STAT Orders of nursing information system that is rarely found. We developed Alert technology through the clinical decision support system and used of mobile nursing station, meanwhile integrated the nursing information system with CPOE (Computer Physician order entry).

Objectives

• The purpose of study focused on the timely effectiveness of nurses’ using STAT order’s reminders of the decision-making support system on mobile station.

Material and methods

• This longitudinal study was from January, 2012 until December, 2016. There were 4095,552 STAT orders within five years, and 819110 orders per year in this study.

Results

• According to Chen’s 2013 research, each STAT order on the computer group reduced about 126 minutes than paper group(95% CI: .010 ~ 5.29, p <.049). There were 2,244 stat orders per day. Therefore, there was time saving about 282,744 minutes per day, switching costs were 4,712 hrs. In addition, our hospital has 1500 beds. Thus, we calculated that reduction 3.1 hrs per bed (time waiting) for STAT order. Relatively, patients have gotten treatment very early than usual, that meaning of saving and prolonged patient’s life.

• Using the alert reminder onto mobile nursing station, the STAT medication administration will be more precise. We recommended integrating this new technology of alert to the “standing” medication administration to improve patients’ safety and survival.

Conclusions

Key words: Alert Technology, STAT order, time saving, mobile Nursing station, safety

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