



Service Priorities and Programmes
Electronic Presentations

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Safety Enhancement of the good standard of performance on operating Rapid Point 500 (Blood Gas Analyzer) in Accident and Emergency Department (AED) of Tin Shui Wai Hospital (TSWH)

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Introduction

Rapid Point 500 (RP500) is a blood gas analyzer used in TSWH AED for critical cases that require immediate results for treatment purpose. RP500 manufacturer requires nurses to follow strict procedural steps of application in order to avoid getting any deviations. Colleagues in the newly opened TSWH came from different hospitals since March of 2017. As such, standard operating procedure (SOP) for RP500 in TSWH AED is crucial. Also, RP500 has schedule calibration testing and other technical trouble shooting procedures, e.g. failed AQC or failed calibration, which is due to the sensitive design on the safety from the machine. Operator must familiar with the technical procedures in order to trouble shoot it. However, department has already trained 3 nurses who will standby when any procedural, applications, or trouble shooting issues arise, but it is difficult to cover all clinical hours for all nurses. It is important to enhance the trouble shooting skills among colleagues.

Objectives

1. To develop the Standard Operating Procedure (SOP) on the sample preparation & applications for RP500 in AED/TSWH 2. To enhance the trouble shooting skills of RP500 in AED/TSWH

Methodology

By adopting the PDCA cycle model, the details are as follows: Plan: Identified the area for improvement: No SOP for handling RP500 in AED TSWH Not enough reinforcement for trouble shooting skills on RP500 Do: Formed the RP500 key operator team for designing the training kit and training schedule. Developed the SOP on the sample preparation for RP500 according to the manufacturer's instruction Developed the SOP for RP500 on result analysis according to the operator manual Prepared warm reminder of RP500 Designed the quick guide for the trouble shooting skills of RP500 Designed the method for the promulgation of the training kit Check: The training materials has discussed by the team and verified with the manufacturer technician. The training materials has been validated by asking the comments from nursing staff and PCAII staff and they all

showed positive feedbacks and good understanding to the content. Act: A briefing session on the sample preparation among PCAII staff has been held on Sep 2018 and returned demonstration has been performed. The training kit has been circulated for “read and sign” and promulgated by e-mail among the nursing staff since January 2018. A RP500 corner has been set up including the SOP and trouble shooting quick guide. A briefing session on the trouble shooting skill has been held since December 2017 among nursing staff.

Result

In conclusion, this programme is effective in standardizing the procedures on operating RP500 since the staff in TSWH AED are competent in performing the SOP by observational study. In addition, they can tackle the trouble for RP500 in order to saving the operation time. In the long run, with the increasing number of staff followed by the future expansion of TSWH AED to 12-hours AED service, the project will be on-going and be reviewed by the team to sustain its effectiveness.