An Evaluation Audit on the Compliance of HKEC Standard Operating Procedure on Interventional Procedure Safety

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Introduction
Interventional procedures are defined as the procedures used for diagnosis or treatment that involves incision; puncture; entry into a body cavity; or the use of ionizing, electromagnetic or acoustic energy (2014, NICE, UK). The risks of wrong patient identification, wrong procedure and wrong site / side can lead to serious adverse results for patients underwent such invasive procedures conducting in respective interventional suites. Pursuant to HA Safety Policies and GIA’s recommendations, HKEC formed a working group on Interventional Procedures Safety Policies Implementation to ensure Interventional Procedures Safety. Cluster Standard Operating Procedure (SOP) on Interventional Procedure Safety was developed. It comprises three safety checking phases including “pre-intervention”, “team time-out”, “post-intervention” for interventional procedures. Different specialties developed specific safety checklists for Interventional procedures. The SOP has been fully implemented in HKEC since May 2013. An evaluation audit was employed to ascertain staff compliance to the SOP.

Objectives
Evaluate the compliance with the HKEC Standard Operating Procedure on Interventional Procedure Safety and identify area for improvement.

Methodology
The compliance audit was conducted in PYNEH on 19 Mar 2014. Retrospective review of the medical record was conducted for patients who underwent six interventional procedures at related interventional suites within the period from Oct 2013 to Dec 2013. The audited procedures included Angiography, Percutaneous
Transluminal Coronary Angioplasty, OesophagoGastroDuodenscopy, Percutaneous Nephrostomy, Percutaneous Transhepatic Biliary Drain and Electro-convulsive Therapy at four respective interventional suites. Prior to the date of audit, a list of patients was drawn from Clinical Data Analysis and Reporting System. One out of five patients of each procedure was randomly selected from the list, and the medical records were retrieved for audit review. The available medical records on respective audit dates were reviewed based on the audit criteria.

**Result**

43 medical records of six interventional procedures performed at four interventional suites were successfully audited. The audit revealed that the compliance with the requirements of HKEC SOP of Interventional Procedure Safety by using the safety checklist and going through three safety checking phases was 100%. No discrepancy in side/site of the procedure and patient identification was found. This was significantly improved in comparison with GIA audit results (44% compliance rate in HKEC) in 2011, largely reflecting the positive impact of promulgation of HKEC SOP in alignment with HA's Safety Policy. It was found that documentation on safety checklist and informed consent was not fully completed, implicating rooms for improvement. Though the successful implementation of the SOP, patient safety was ensured with correct patient identification and correct site / side during the Interventional Procedures.