CLINICAL AUDIT OF STANDARDIZED HAND OVER PROCESS IN INTERVENTIONAL RADIOLOGY:

IMPLEMENTATION OF A NEW TOOL FOR IMPROVING COMMUNICATION AND PATIENT SAFETY

Ahmed Abdelbaki MD, Daichi Hayashi MBBS PhD, Neeraj Bhatt MD, Shady Abdelbaki MD, Noel Velasco MD

Department of Radiology,
Yale New Haven Health Bridgeport Hospital, Bridgeport, CT

CLINICAL AUDIT

Select audit topic and identify standards

Re-audit
Implement change
Plan necessary change

Collect data on current practice
Compare to standards

Re-audit
INTRODUCTION

• Hand over is the process of transferring information and responsibility from one provider to another
• Hand over is an old tradition among residents
• Few radiology residency programs formally teach hand over
• Little research has examined the content and effectiveness of the hand over process

RESULTS OF 1ST AUDIT

• Audit of resident hand over of 16 image guided procedures during a 4-week period in September 2016
  ➢ The hand over was unstructured, variable and informal
  ➢ The hand over lacked pertinent clinical information
  ➢ A total of 6 adverse events were observed
METHODS

Topic: clinical audit of standardized hand over process in interventional radiology

Initial audit: September 2016

Data analysis: November 2016

Creation of proforma checklist

Use of the proforma in practice

Re-audit and data analysis: February 2017

• Based on the results audit we developed a sign out sheet containing pertinent clinical information:
RESULTS OF RE-AUDIT

• Re-audit of resident hand over of 30 image guided procedures during a 3-months period after applying the sign out checklist
  ➢ Significant improvements in all categories
  ➢ No adverse events
DISCUSSION

- Errors in communication are the most common preventable cause of disability and death in hospitals
- The main objective of resident hand over is the accurate transfer of information about the patient’s current state and his or her plan of care
- Use of the new proforma checklist significantly improved the quality of hand over
- Improvements are a result of a completion of an audit process

CONCLUSION

- Hand over between residents could be haphazard, unstructured and informal without a standardized process in place
- Utilizing a proforma checklist significantly improves the quality of hand over and eliminates adverse events