



103th Scientific Assembly & Annual Meeting
RSNA

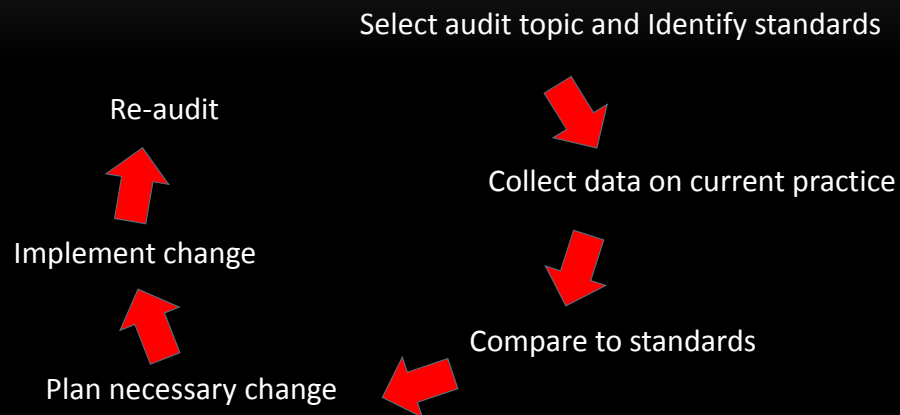
CLINICAL AUDIT OF STANDARDIZED HAND OVER PROCESS IN INTERVENTIONAL RADIOLOGY :

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



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

Re-audit and data analysis:
February 2017

Initial audit: September
2016

Use of the proforma in practice

Data analysis: November 2016

Creation of proforma checklist

METHODS

- Based on the results audit we developed a sign out sheet containing pertinent clinical information:

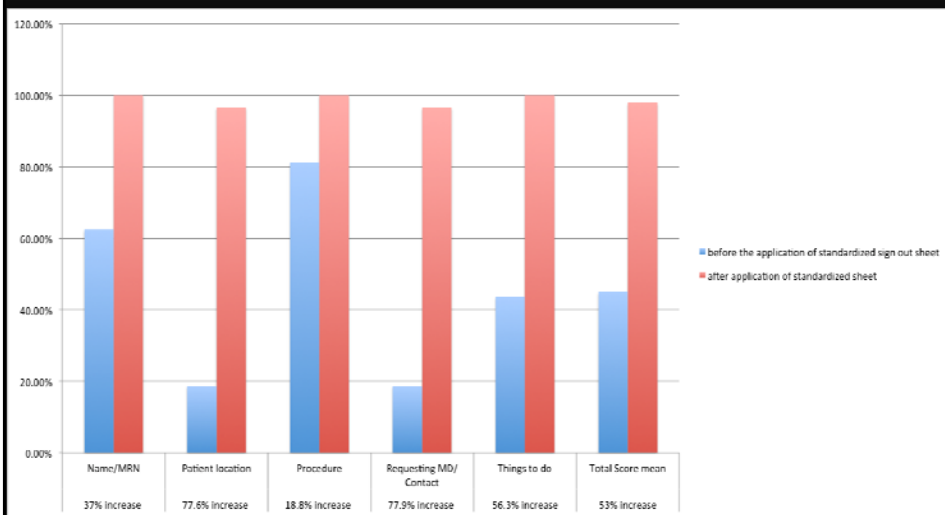
Sample
Sign out sheet

Name/MRN	Location	Procedure	MD/Contact	Notes	Things to Do
John Doe MR # 123456	North west 7 727-A	CT guided pubic abscess drainage	Dr Smith Page # 3150	Fe on patient abscess - Abs - WBC 19.0	<input type="checkbox"/> Consent <input type="checkbox"/> NPO - 2hr <input type="checkbox"/> Hold Heparin
John Doe MR # 123456	SICU Bed 6	Angiography + Embolization neur of bleed	Dr Jones Page # 7130	Hyponatremia - BUN 24 - hb 7.2	<input type="checkbox"/> CTA Abdomen/ pelvis <input type="checkbox"/> Consent <input type="checkbox"/> PT/INR
John Doe MR # 123456	West med 8 832-A	US guided right thrombolysis	Dr Adams Page # 4503	- large effusion	<input type="checkbox"/> Consent <input type="checkbox"/> PT/INR <input type="checkbox"/> Labo for fluid
John Doe MR # 123456	West med 8 851-B	size TACE for HCC	Dr Jordan Page # 2483	- DVT on retained - low albumin	<input type="checkbox"/> check AB pulsed <input type="checkbox"/> Assess pain control <input type="checkbox"/> Drainage tubes

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

RESULTS OF RE-AUDIT



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
-