



103<sup>th</sup> 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

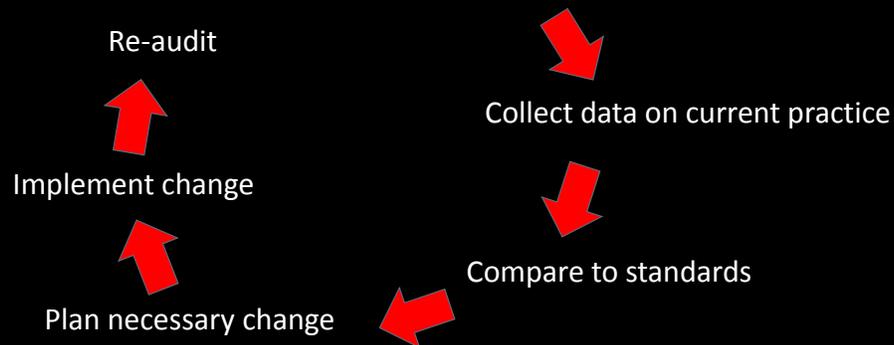
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## CLINICAL AUDIT

Select audit topic and Identify standards



## 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
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## RESULTS OF 1<sup>ST</sup> 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
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# 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:

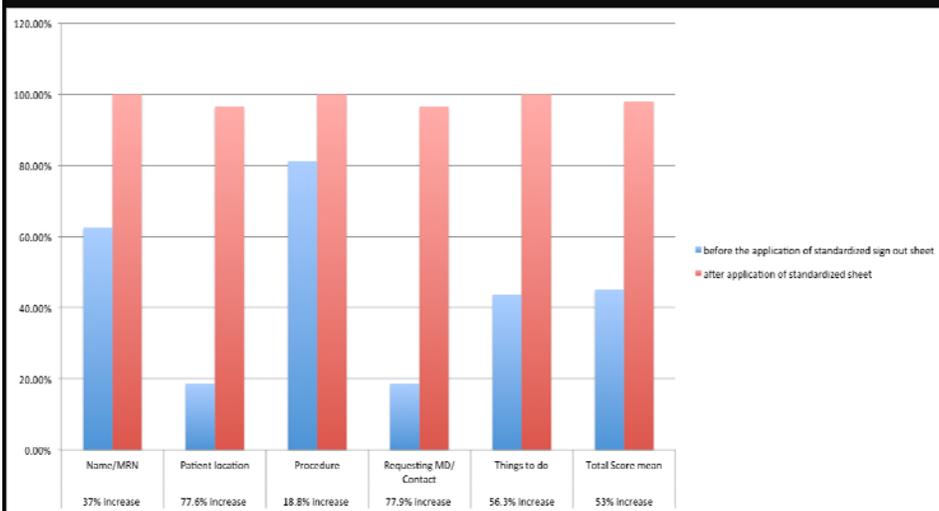
Sample  
Sign out sheet

Name/MRN	Location	Procedure	MD/Contact	Notes	Things to Do
John Doe MR # 123456	North west 7 727-A	CT guided Percutaneous abcess drainage	Dr Smith Page # 3150	Fe on paineral abcess -NPO -NPO -NPO -NPO	<input type="checkbox"/> Consent <input type="checkbox"/> NPO order <input type="checkbox"/> Fluid Paper/10
John Doe MR # 123456	SICU Bed 6	Angiography + Embolization arter of head	Dr Jones Page # 7130	Hydration -BRBPRK -HR 7-2	<input type="checkbox"/> CTA Admission/plus <input type="checkbox"/> Consent <input type="checkbox"/> PT/INR
John Doe MR # 123456	West med 8 832-A	US guided right thrombosis	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	-DNR on intentional -DNR on duplex	<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
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