Improving Continuity of Care: A New Tool to Follow Inpatients with Radiology-Placed Catheters Anna Ellermeier, MD, Robert Norigian, BS, Jonathan S. Movson, MD, William W. Mayo-Smith, MD

Purpose

- Our body division rounds on all inpatients with radiology-placed catheters
- Residents rotate weekly through the body division making consistent follow-up difficult
- We implemented a new electronic handoff tool to facilitate communication between radiology residents and attendings covering inpatients with catheters
- We also created a linked reporting tool that allows long-term electronic cataloging of procedures and analysis of outcomes measures

Methods

Radiology Signout: radiology template within hospital EMR (LifeLinks, Siemens Invision)

Template includes

Automatically populated fields:

1. Patient demographics 2. Medications 3. Laboratory values, including: *blood count,* chemistries and 5-day lab

trends

Free text fields for manual input: 1. Diagnosis: procedure and date performed 2. HPI: pertinent patient history, resultant microbiology or pathology 3. Events: daily catheter output 4. **To-Do**: specific follow-up recommendations (*i.e.*, *pending pathology*) to communicate at handoff times between residents (weekends and service change)

 Resident or fellow performing catheter placement completes initial Signout data entry

Patients are seen and information is updated 6 days per week

• Patients are removed from Signout census manually after catheter removal or automatically after hospital discharge

Radiology Report: linked online cache

 Automatically populates with most recent Signout patient census and respective free text fields

- Date of admission, date of addition to Signout and date of discharge are imported from hospital EMR for each patient encounter
- Patients remain on Report after catheter removal and/or hospital discharge
- Data exportable to Microsoft Excel[™]
 - Overview of all procedures performed
 - Targeted analysis of documented outcomes

Example of usage over 17 weeks Patient demographics:

- Average age: 53.8 years (range 4-85 years), with 13.7% (7/51) under 18 years
- Male: 68.6% (35/51)
- Female: 31.3% (16/51)

Requesting Service

Example: CT-Guided Drainage

Loe, Jane 52-year-old female in 1	I2N, M34 #2 admitted 05/
Doe, Jane 52-year-old female in MR # 987654 DOB: 01/01/1961 Att: Smith, Jane Att. Code: 12345 PCP: Smith, Jane Allergies: No Known Drug Allergies Contact: Doe, Jon spouse H (123) 456-7890	12N, M34 #2 admitted 05/2 Dx 12F CT-guided perirectal all Placed 5/22 HPI 52 yoF with poorly controlled with diabetic ketoacidosis. several months. MR obtained abscess with extensive assist adjacent rectosigmoid, que
	Drain place 5/22 -Cx (final): E. Coli, Yeast, Developed distal obstructio -palpated firm rectal mass -s/p colonoscopy: fungating obstructive large mass in r -Bx: adenocarcinoma -Tx to onc, plan to start che

Results

• Current pilot has been in place for 1 year and has been used by 37 residents and 11 attendings • Signout and Report are both accessible anywhere within the hospital or remotely via a secure VPN

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Catheter Details:

Number of catheters/tubes: 55 (for 51 unique hospitalizations)

- >1 catheter: 4/51 patients (7.8%)
- Required replacement: 2/55 catheters (3.6%)
- Required upsizing: 5/55 catheters (9.1%)





Conclusion

• Radiology Signout is easy to use and provides an efficient mechanism to improve continuity of care for inpatients with radiology-placed catheters • Implementation of Radiology Report has allowed for a centralized and organized format to review all procedures performed and analyze outcomes achieved Radiology Signout and Radiology Report have been easily integrated into the workflow of our body division





		Hide)	To Do
e Anaerobe Cult			[] f/u tube output
Morph Comment	ABNORMAL	Events	Events
Blood Cells Urine	144 /HPF		5/22 (initial): 40 cc foul smelling serosanguinous 5/23: 20 ccs yellow fluid
d Cells Urine	174 / HPF		
Urine	1+	5/24: 30 ccs yellow fluid	
nce Urine	CLOUDY		5/25: 55 ccs yellow fluid 5/26: 60 ccs yellow fluid
ne	3+	5/27: 30 ccs yellow fluid 5/28: 0 5/29: 5 ccs yellow fluid	
rine	TRACE		5/28:0
rine	30 MG/DL		5/29: 5 ccs yellow fluid
e Est Urine	3+		
721 <u>143 119</u> 2.4 21	9 67		