

Official Radiology Policies for Residents in a Hurry:

Increasing the Accessibility of Official Hospital Policies for Radiology Residents on Call or Injection Shift

Sanna Herwald MD PhD, Jennifer Padwal MD MSc, Preya Shah MD PhD MSBE, Hugo Decker MD PhD, Amy Bui MPH, Erlina Haun MS MBA PMP, Marc WIllis DO, Gloria Hwang MD

Problem Statement/Background

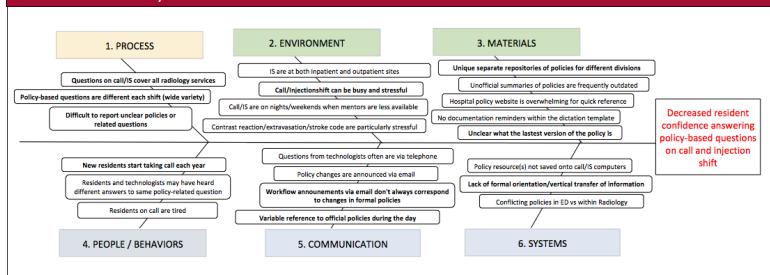
Official Radiology Department policies ensure safe, high-quality, and consistent care for all patients undergoing imaging, including patients receiving CT or MRI contrast, patients for whom an MRI may be unsafe, patients receiving radioactive tracer material internally, and potentially pregnant patients. There are few regularly-updated centralized resources that cover the full scope of these policy-based decisions, and the existing resources may be difficult to find or navigate quickly.

Residents on call and injection coverage shifts are expected to independently answer policy-based questions about patient imaging which span all of the modalities of radiology and all of the radiology sub-sections. Lack of knowledge or experience in these scenarios can lead to non-conformity with hospital policy, delayed patient care or adverse outcomes.

Target State: SMART Goal

By 4/4/2022, increase the confidence of radiology residents answering policy-based questions while on call or injection coverage shifts, measured on a 1-5 Likert scale, by 10% above the 2/25/2022 baseline.

Root cause Analysis

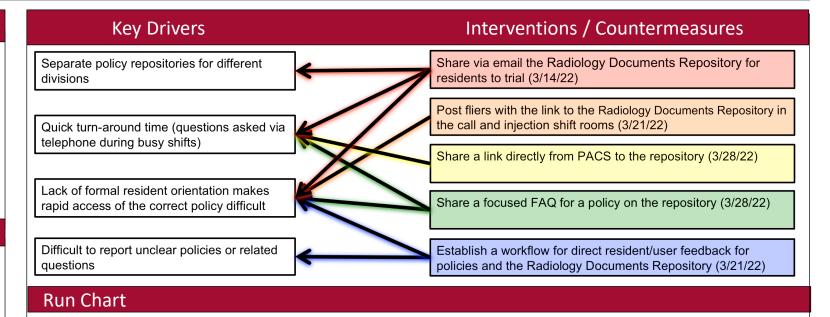


Key Learning

- Our outcomes demonstrate that junior residents are less comfortable navigating official policies than senior residents, and that this gap can be bridged by making official policies easy to access, review, and ask questions about.
- Ease of access is critical for any resource residents are expected to use during a busy call shift, and having multiple means of reaching the resource (email, posters, link directly from imaging-reading software) empowers residents to add the resource to their workflow.
- Residents are expected to answer policy-based questions independently for more than half of the hours in a day, and resident confidence performing these tasks is essential to ensure patient safety, clinical efficiency, and positive patient experience.

Preview of the policy repository (Stanford log-in required; https://radit.stanford.edu/):





Workflow for

policy

feedback

R3 (PGY4) average

Link to policy

repository in the

Radiology PACS

After 3/21/22 Interventions

R4 (PGY5) average

New FAQ for

patients

imaging pregnant

R4 SMART Goa

R3 SMART Goal

R2 SMART Goa

R1 SMART Goal

All residents SMART Goal

After 3/28/22 Interventions

-All residents average

Posters in workspaces

sharing policy

repository

After 3/14/22 Intervention

-R2 (PGY3) average

Additional Results

Comfort level table and 5 is n

(1 is

Share link to policy

repository via email

Baseline (2/25/22)

-R1 (PGY2) average

			Increase from baseline to after
Group of Residents	Baseline 2/25/22	After 3/28/22 Intervention	3/21/22 intervention
R1 (PGY2) average	1.6	3.0	85%
R2 (PGY3) average	2.8	4.0	45%
R3 (PGY4) average	3.5	4.7	33%
R4 (PGY5) average	4.0	4.0	0%
All residents average	2.9	4.0	39%

- After completing the interventions, the average reported confidence of residents answering policy-based questions increased by over 10% for all groups, except the R4 resident class, who reported high confidence at baseline.
- The confidence of junior residents was relatively low at baseline, but demonstrated the greatest increase after the interventions.