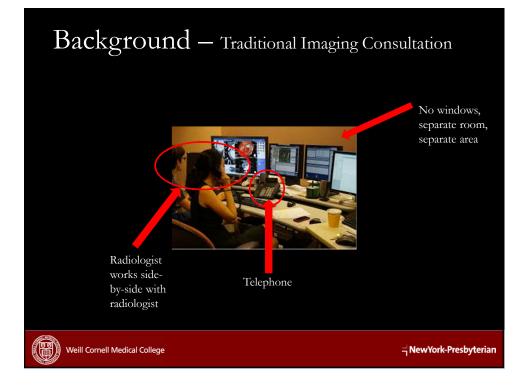




- PACS technology and current fee-for-service payment models limit direct consultation activities.
- Added value of such activities is rarely documented.
- Direct consultation improves education, communication, and patient care.

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Background – Imaging 3.0 in Action Case Studies

- <u>After intervention</u>: "Show referring clinicians you care about their opinion by *travelling to their work site and listening to their feedback...*in order to improve communication."
- <u>After intervention</u>: "We are solving more day-to-day issues for clinicians seeking our services. All of this is very good for us *demonstrating value* to our colleagues and patients."
- <u>Before intervention</u>: "From the physician's perspective, all radiologists do is read images and, for that reason, would be *easy to replace*."
- <u>After intervention</u>: "At our hospital, our radiologists are among *the strongest physician leaders*, and they actively participate in many groups."

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Background - Purpose

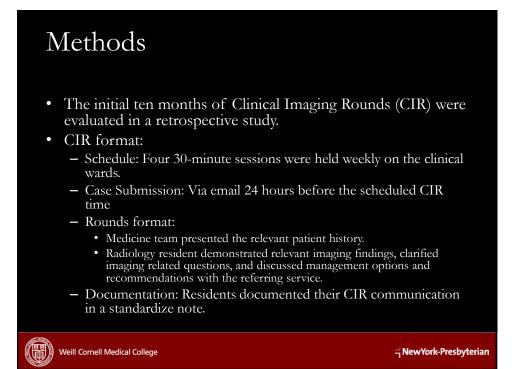
- As healthcare moves towards a bundled payment system, we must increase the awareness of the value of the radiologist.
- Radiology residents can provide essential consultation services without significantly disrupting attending workflow.
- Resident-driven clinical imaging rounds (CIR) allow radiologists-in-training to actively and directly participate in clinical management.
- Consultation activities take considerable time and effort. Demonstrating their value impacts future implementation.

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Background - Purpose

- Retrospective review of survey data determined the qualitative and quantitative effects of CIR on clinical management, communication, and education of referring providers and radiology residents.
- With results, CIR will be modified to better serve patients and providers.
- By documenting its organization and effectiveness, CIR can be adopted at other institutions to improve patient care and the radiologists' role in the larger medical community.

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Methods

- An anonymous survey to determine the perceived usefulness of CIR as a form of consultation given to:
 - radiology residents
 - internal medicine attending physicians
 - Internal medicine residents
 - medical students.
- Qualitative and quantitative analysis of survey responses was performed to demonstrate the impact of CIR on patient care and education.

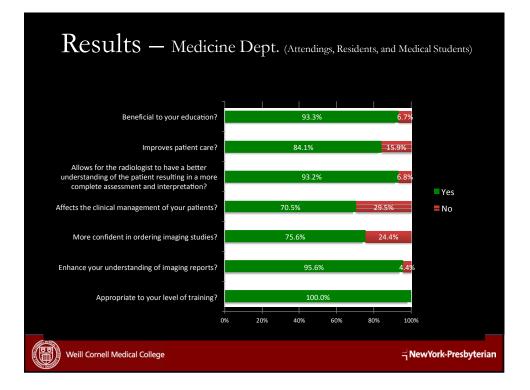
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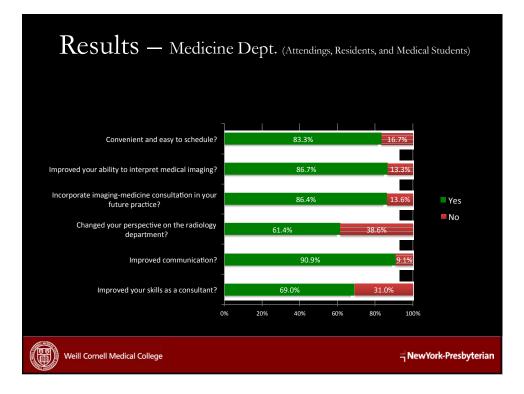
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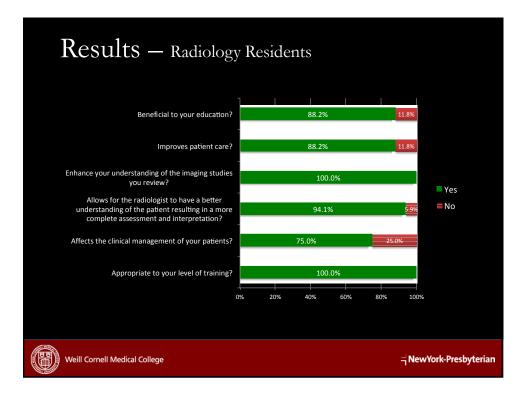
Results

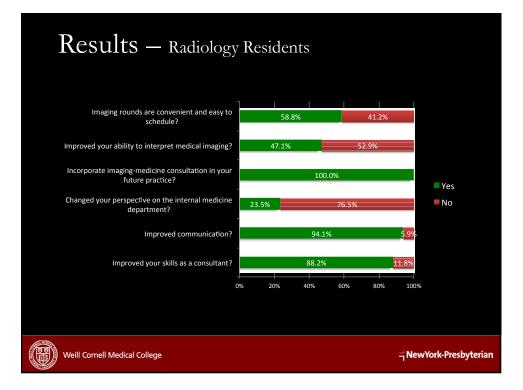
- Approximately 20 radiology residents and 150 internal medicine physicians and medical students participated in imaging rounds.
- 85% of radiology resident participants completed the survey (N=17).
- Approximately 30% of internal medicine participants completed the survey (N=45).

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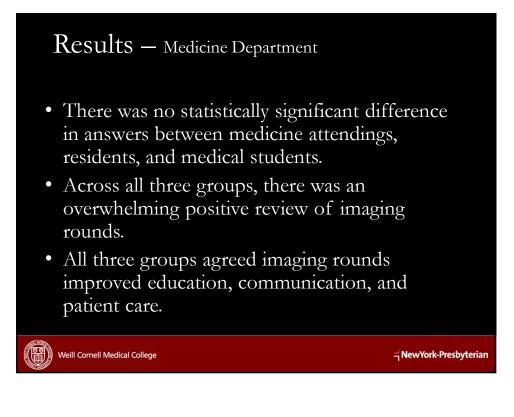


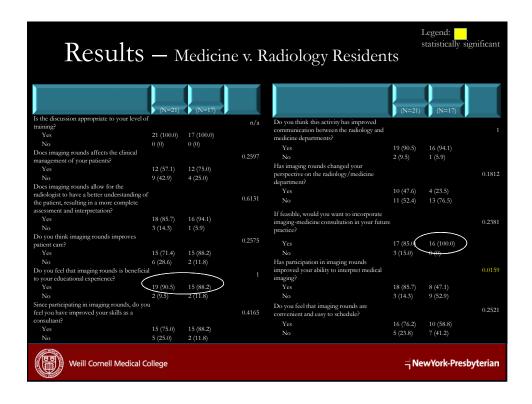






Results — Medicine Department							Legend: >75%			
	(N=8)	(N=16)	(N=21)		Table 1. Medicine	Attending (N=8)	Medical Student (N=16)	Resident (N=21)	P- value	
s the discussion appropriate to your level of raining?					Since participating in imaging rounds, do you feel you have improved your skills as a consultant?				0.744	
Yes		17 (100)	21 (100)	n/a	Yes	5 (71.4)	9 (60.0)	15 (75.0)		
Yes No	8 (100) 0 (0)	16 (100) 0 (0)	21 (100) 0 (0)			2 (28.6)	6 (40.0)	5 (25.0)		
oes imaging rounds enhance your understanding of					Do you think this activity has improved communication between the radiology and medicine departments?					
aformation contained within the report?				0.4485			14 (93.3)	19 (80.5)		
Yes	7 (87.5)	16 (100.0)	20 (95.2)		No	1 (12.5)	1 (6.7)	2 (9.5)		
No Do you feel more confident in ordering imaging	1 (12.5)	0 (0)	1 (4.8)		Has imaging rounds changed your perspective on the radiology department?				0.10	
udies after participating in imaging rounds?				0.0070	Yes	4 (57.1)	13 (81.3)	10 (47.6)		
1				0.8978		3 (42.9)	3 (18.8)	11 (52.4)		
Yes	6 (75.0)	13 (81.3)	15 (71.4)		If feasible, would you want to incorporate imaging-				0.37	
No	2 (25.0)	3 (18.8)	6 (28.6)		medicine consultation in your future practice?				0.57	
oes imaging rounds affects the clinical management f your patients?				0.1684			15 (93.8)			
		13 (86.7)	12 (57.1)		No	2 (25.0)	1 (6.3)	3 (15.0)		
No locs imaging rounds allow for the radiologist to	2 (25.0)	2 (13.3)	9 (42.9)		Has participation in imaging rounds improved your ability to interpret medical imaging?					
ave a better understanding of the patient, resulting				0.2785	Yes	7 (87.5)	14 (87.5)	18 (85.7)		
a more complete assessment and interpretation? Yes	8 (100.0)	15 (100.0)	18 (85.7)		No	1 (12.5)	2 (12.5)	3 (14.3)		
No	0 (0)	0 (0)	3 (14.3)		Do you feel that imaging rounds are convenient	1 (12.5)	2 (12.3)	5 (14.5)		
o you think imaging rounds improves patient care? Yes	8 (100.0)	4 (93.3)	15 (71.4)	0.1459	and easy to schedule?				0.35	
No	0 (100.0)	1 (6.7)	6 (28.6)				11 (84.6)	16 (76.2)		
to you feel that imaging rounds is beneficial to your ducational experience?				0.3962		0 (0)	2 (15.4)	5 (23.8)		
Yes	7 (87.5)	16 (100.0)	19 (90.5)							
No	1 (12.5)	0 (0)	2 (9.5)							
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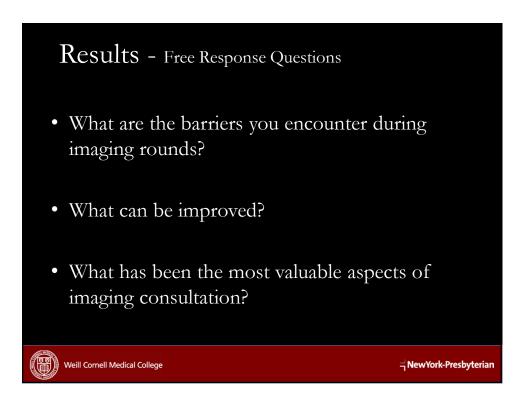


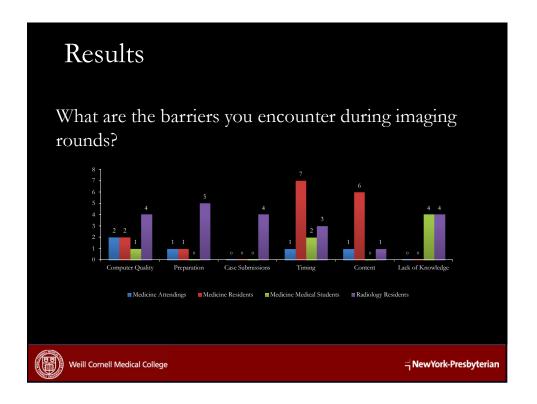


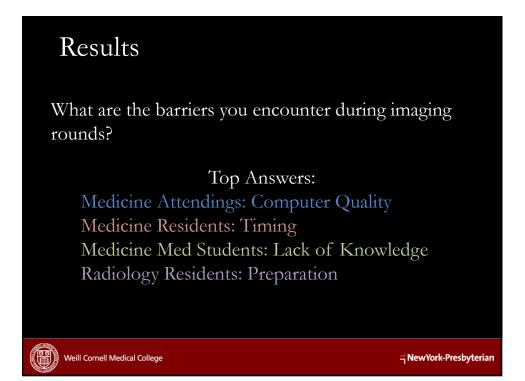
Results

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Survey participants were given the opportunity to provide free text feedback to identify areas of improvement for CIR.







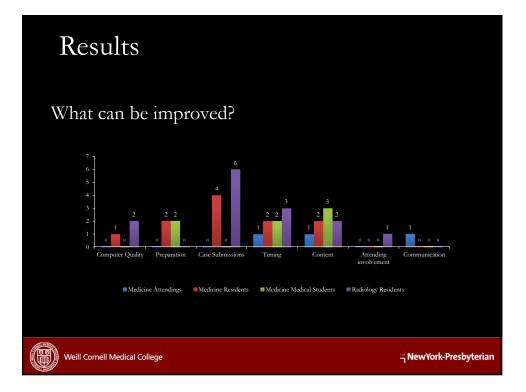
Results What are the barriers you encounter during imaging rounds? "Availability of . Radiologists have a tendency to move between images quickly and it would be helpful if the radiologist were to explain in a bit

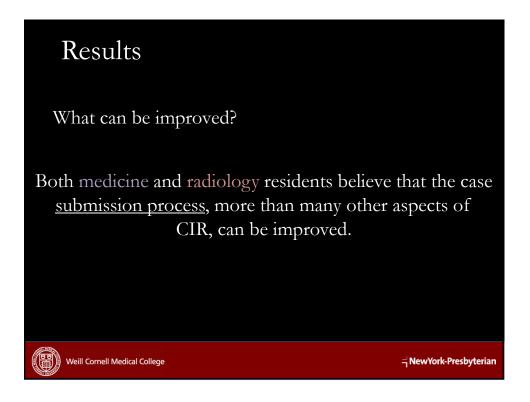
more detail how the imaging findings pertain to the clinical presentation." where timing was inconvenient due key as it allows a thorough evaluation of the case, literature, and review with radiology attendings as

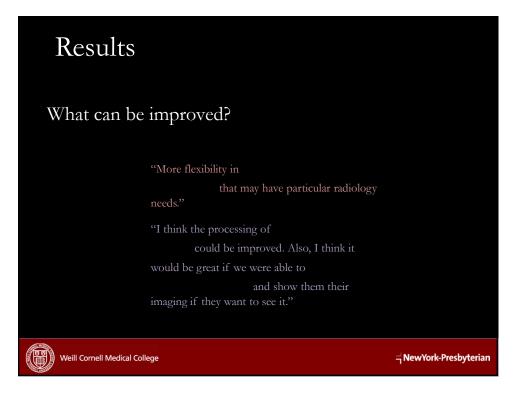
needed."

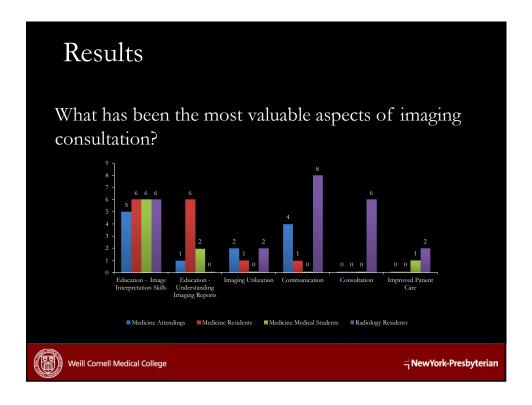
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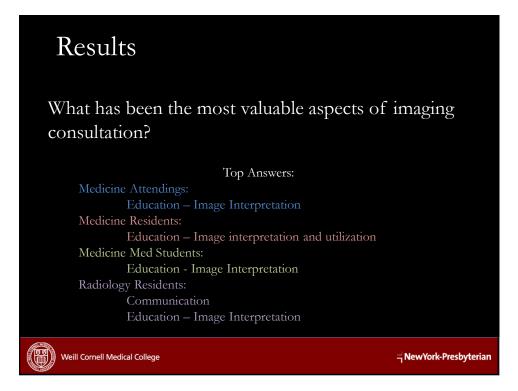
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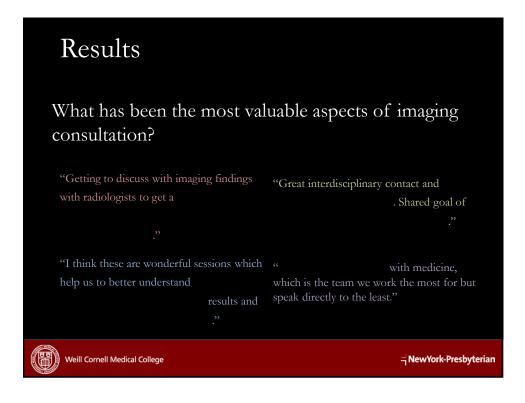


















Limitations

- Survey was not mandatory not all participants responded to survey, selection bias.
- Improvement in patient care analysis was subjective only, based on memory and opinion of survey takers.

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Future Directions A retrospective analysis of de-identified CIR patient information to determine:

- consult patient demographics
- nature of consultation
- impact of specific clinical recommendations made during CIR
- Improvements in Web PACS.
- Incorporation of tablet use.
- Automated case submission system.

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