







Methods: Metrics to Measure Report Quality

- A panel of radiologists at our institution met with professors from the Department of Writing and Rhetoric at Oakland University to develop metrics to measure report quality.
- Consensus was achieved regarding three important parameters:
 - <u>Content</u>: Report is relevant to the clinical situation and question.
 - <u>Clarity</u>: Report has a clear style and presents information in a simple logical order.
 - <u>Proofreading</u>: Report contains accurate grammar and spelling without dropped words.



	Initial F	tesuits	
Table 1: Comparison of	initial content, clarity, and	d typographical error sco	ores (Mean ± Std. Dev.)
bet	ween internal medicine p		:S.*
	Internal Medicine	Radiologists	p value
Content	1.65 ± 0.80	1.35 ± 0.55	< 0.05
Clarity	1.74 ± 0.81	1.47 ± 0.63	<0.05
Typographical Errors	1.61 ± 0.79	1.56 ± 0.71	p = 0.29
lower as com	pred radiology apared to the r al errors were	adiologists.	

able 2. When reduing	radiology reports wher	e do you prefer the impre	ssion to be located?
	Top of the Report (%)	Bottom of the Report (%)	No Preference (%)
nternal Medicine Physicians	34	56	9
Radiologists	13	75	13
e end of the	report.	e Impression ression at the	

Always (%) > 50% of the time (%) < 50% of the time (%)	Table 3: V	When reading radiolog	y reports how often do	you read the findings sec	tion?*
Physicians 16 55 29 0 Radiologists 25 51 22 1 *Results reported at a % of respondents who answered in each category. Approximately ¼ physicians in the study read the Finding				,	
*Results reported at a % of respondents who answered in each category. Approximately 1/4 physicians in the study read the Findir	Internal Medicine Physicians	16	55	29	0
Approximately ¼ physicians in the study read the Findir	Radiologists	25	51	22	1

Results following report improvement plan				
		raphical error scores (Mear plementation of the report		
	Internal Medicine (Initial)	Internal Medicine (after)	p value	
Content	1.65 ± 0.80	1.60 ± 0.71	p = 0.17	
ol	1.74 ± 0.81	1.65 ± 0.70	p = 0.053	
Clarity				

 Overall, there was a trend toward improvement in each measured category; however, the difference in report content, clarity, and typographical errors was

not statistically different before and after implementing the report improvement plan.

Discussion Internists scored radiology report content and clarity lower compared to radiologists. Potential reasons for this difference could include: · A communication barrier: the radiologist's lexicon is different than Internist's. The customer (internist) may have a bias toward being more discerning and critical about the product that they are utilizing. The producer (radiologist) is biased toward affirming the quality of the product that they produce. Typographical errors were scored similarly. There is a clear preference for the Impression section to be located at the end of the report and this follows classic organization principles. The preference for the Impression at the end emphasizes the need to provide a consistent report structure so clinicians can efficiently locate pertinent information.







