

Quality Initiative to Improve the Transcription Process of Image Requisition Documentation Michael J. Mills, MD¹; John Nguyen, MD¹; Ben Himelhoch, MBA²; Abdelouahid Souala, BSN²; Anthony Khashola, BS²; Sumita Joseph, MD¹; and Roger Gonda, MD¹ ¹Department of Radiology, Providence-Providence Park Hospital/Michigan State University College of Human Medicine, Southfield, MI ²Michigan State University College of Human Medicine, East Lansing, MI



MICHIGAN STATE UNIVERSITY College of Human Medicine





and a comparison was made using the Chi-square test (P<0.05 was considered statistically significant).

Results

- (Figure 3, p<0.001).
- intervention (Figure 3, p<0.001).

Conclusion

Educating staff members responsible for transcription of study indication and clinical history, along with a reminder poster placed at each workstation, significantly improved the concordance and quality of the information presented to radiologists on the RIS document.

Future Directions

- effects.
- implementation of a spell check function.
- eliminate the need for transcription.

References

- 2014;11:1226–1237.
- Radiol. 2007;4:617-621.
- 1996;167:855-859.
- Imaging. 2014;95:69–75.
- Am Coll Radiol 2006;3:628-9.
- Virginia; 2013.
- requisitions. .Acad Radiol. 2001;8:299–303.



millsmi1@msu.edu

• 40% of the pre-intervention documents were not concordant. Postintervention demonstrated a 21% overall improvement in concordance

• 34% of the documents from pre-intervention were partially discordant, lacking adequate clinical information, compared to 15% post-

• There was a 22% post-intervention increase in the number of transcriptions that possessed the highest quality of concordance, meaning verbatim transcription free of grammatical errors (Figure 4).

• While a statistically significant improvement was seen, the longevity of these improvements is unclear. A future study would be beneficial to explore the long-term effects of the intervention, and whether periodic repeated interventions could extend the longevity of the positive

Technology can serve as a source of improvement, such as

Computerized Physician Order Entry implementation may eventually

DiRoberto C, Lehtol C, Baccei S. Improving the Transcription of Patient Information From Image Requisitions to the Radiology Information System Journal of the American College of Radiology, Volume 13, Issue 8, 950 – 955.

Weiss, D.L., Kim, W., Branstetter, I.V.B.F., Prevedello, L.M. Radiology reporting: a closed-loop cycle from order entry to results communication. J Am Coll Radiol.

Cohen, M.D. Accuracy of information on imaging requisitions: does it matter?. J Am Coll

Schuster, D.M., Gale, M.E. The malady of incomplete, inadequate, and inaccurate radiology requisition histories: a computerized treatment. AJR Am J Roentgenol.

Troude, P., Dozol, A., Soyer, P. et al., Improvement of radiology requisition. *Diagn Interv*

Khorasani R. You should eliminate paper from your PACS workflow: why and how? J

Ash, J.S., Gorman, P.N., Seshardi, V., Hersh, W.R. Computerized physician order entry in U.S. hospitals: results of a 2002 survey. J Am Med Inform Assoc. 2004;11:95–99. McEnery, K.W. Radiology information systems and the practicing radiologist. in: IT reference guide for the practicing radiologist. American College of Radiology, Reston,

Gunderman, R.B., Phillips, M.D., Cohen, M.D. Improving clinical histories on radiology