

Collaboration Between Radiology and Utilization Management to Reduce Inappropriate MRI Orders and Patient Wait Times

A. Chang, C. Hyun, N. Mehta, S. Kim, M. Grube,
M. Blair, A. Yi
VA Loma Linda Healthcare System
November 2017

For inquiries contact: arthur.chang@va.gov



Problem/Goal

- At our facility with two MRI magnets, patient wait times were steadily increasing up to a maximum of 7 weeks despite extending evening and weekend hours.
- No concerted effort had previously been made to reduce the high level of overutilization as perceived by the Radiologists.
- The Radiology service and Utilization Management (UM) team, after an initial separate review process, determined to jointly review all outpatient MRI orders for appropriateness. By reducing the number of inappropriate scans, we expected a decrease in patient wait times.
- Goal was to reduce patient wait times for ordered MRIs to less than 30 days.

Implementation Experience for Radiologists

The Initial Radiologist Experience (Nov-Dec 2013):

- Denial rate: 27.7%
- Limited time for detailed review
- No time to call ordering physicians about denials
- Limited time for discussion/education with ordering physicians
- Lack of record keeping of decisions
- Potentially setting up adversarial relationship between Radiology and all other physicians
- Allowed consensus within Radiology about how to apply criteria

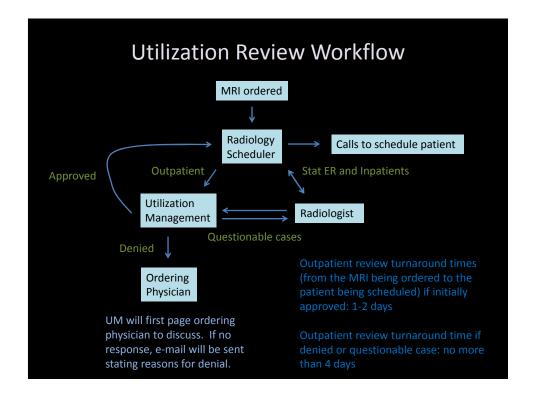
Implementation Experience for UM

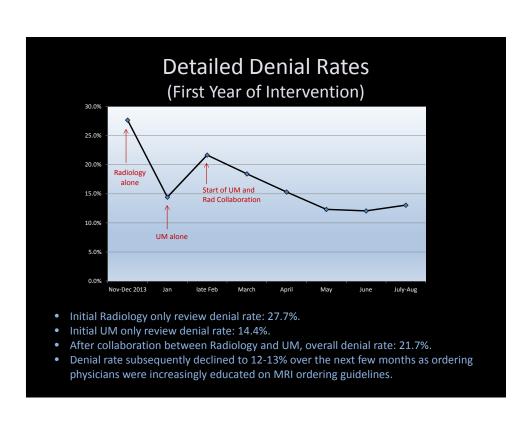
The Initial UM Experience (Jan-Feb 2014):

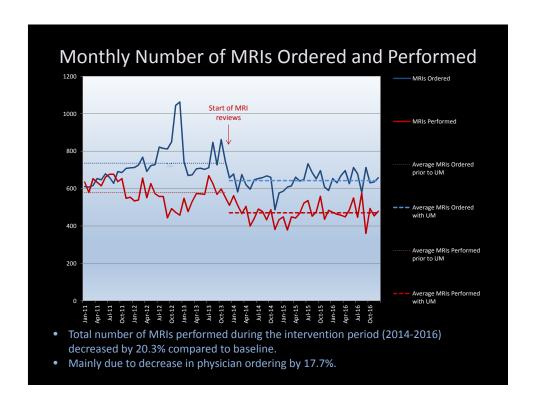
- Lack of experience on how to apply McKesson InterQual® Criteria (commercially available software)
- Difficulty denying studies. Lower denial rate: 14.4%
- No physician backup
- What to do about questionable cases
- Gained more familiarity with InterQual® criteria compared to other physicians

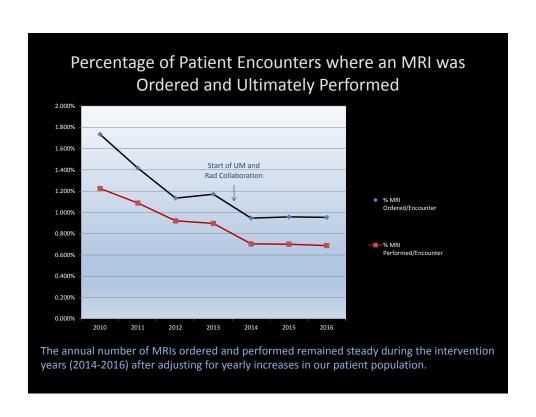
Start of UM and Radiology collaboration (late Feb 2014)

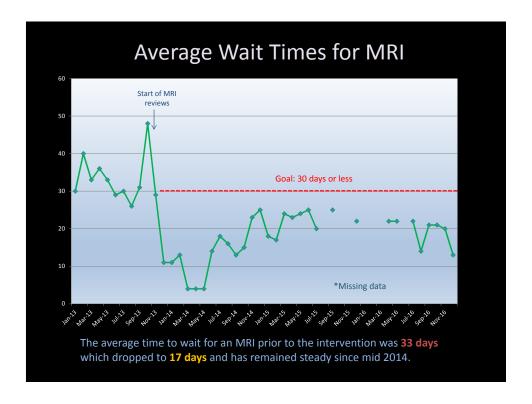
- To better achieve optimal results, the Radiology and UM departments coordinated efforts to provide further training to the UM nurse reviewers, established protocols and specialized guidelines, and designed radiologist consultation workflows for challenging cases
- Collaboration denial rate: 21.7%











UM and Radiology Collaboration

The success of our intervention relied on synergy between Radiology and UM.

- UM documented final decisions, conversations with clinicians, and other data for statistical tracking.
- UM helped Radiology by contacting clinicians, a time-consuming process itself, and educating them on the review and appeals process.
- Radiology contributed by providing ongoing training to UM regarding appropriateness criteria as well as serving in an advisory capacity on difficult decisions.
- Radiology led the efforts to reach out to the ordering clinicians, helped them understand the UM review process and clinical guidelines, and addressed physician concerns.

Utilizing the strengths of both departments achieved results that benefited the patient and satisfied clinicians with the timeliness of MRI availability.