Tailored Radiologist Reports Regarding Clinician Notification of Cerebral Infarct or Hemorrhage Exacerbations or Complications Improve Overall Compliance Rates

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Timely reporting of Critical Values enhances health care delivery.

We recognize that it is important not only to report new/acute findings in those patients characterized prospectively as suspicious for undergoing "acute stroke", but also to notify clinicians about new or expanded infarcts, or consequences thereof including mass effect or hydrocephalus, even for patients not specifically introduced as undergoing stroke alert studies.

The aim of this quality initiative was to determine if a tailored notification regimen could improve notification rates by radiologists in this patient population.

Methods

At the end of each month (Feb 2013-Sep 2014) we mined all CT Head and MRI Brain reports from our practice.

Using key phrases and excluding negating language, we developed a technique in Microsoft Excel to automatically refine the candidate exam list to about 6% of studies with highest probability for acute findings.

Cases designated as discrete Stroke Alert CT's were excluded from consideration, since those exams have a discrete workflow and notification regimen.

The reports for these remaining studies were then reviewed individually for signs of new or increased infarction or hemorrhage, as well as increased mass effect, hydrocephalus, and other consequences meriting notification.















Results

Subjectively, there is greater awareness of the need to notify when imaging findings grew more conspicuous.

Success is now documented and monitored by the Performance Improvement Committees of both Radiology and the Stroke Service.

Conclusion

Customized monthly reports informing radiologists of their specific success in documenting clinician notification of new or expanded infarcts and hemorrhages, and consequences thereof, enhances performance.

Progressive PDSA cycles, with more illustrative presentation in each wave, led to even better performance overall.

This method serves as a model that can be extended to other sections in the Department to enhance overall communication with clinicians.