

Radiology Critical Test Results Management: A Successful Approach for Implementation

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Purpose

To address system barriers to timely reporting and documentation of critical test results.

To create a completely closed loop system beginning with the priority of the exam order and ending with critical test results (CTR) reaching the ordering clinician.

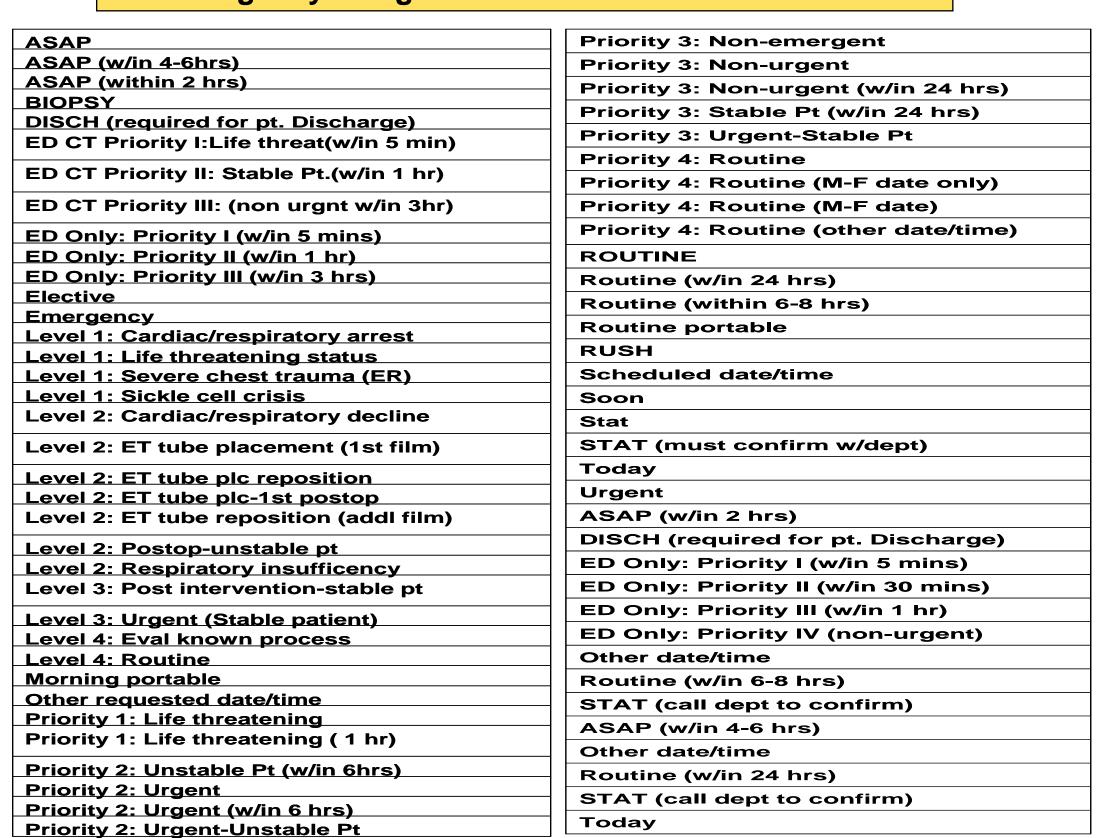
To automate the auditing process for tracking and trending of turnaround times for critical result reporting.

Background

Three major issues were identified by the CTR project team:

- 1. The radiology exam order prioritization process was convoluted for the ordering clinician. Over fifty urgency choices were in place.
- 2. The shear number of urgency designations made it difficult for the radiologist to prioritize interpretations.
- 3. There was not a reliable, user friendly process for the radiologist to contact the ordering clinician or document the communication of the CTR.

50+ urgency designations listed below reduced to 5.



Method

New exam order and final result prioritization system developed.

- Urgency of exam performance and report turnaround expectation determined by ordering clinician at time of order.
- Life Threatening, Urgent but not Life

Threatening, Routine, Discharge Priority, Morning Portable Four results categories available in the CTR system for radiologist communication of CTR's and unexpected findings.

• Life Threatening, Significant, Potentially Concerning, ED Recall.

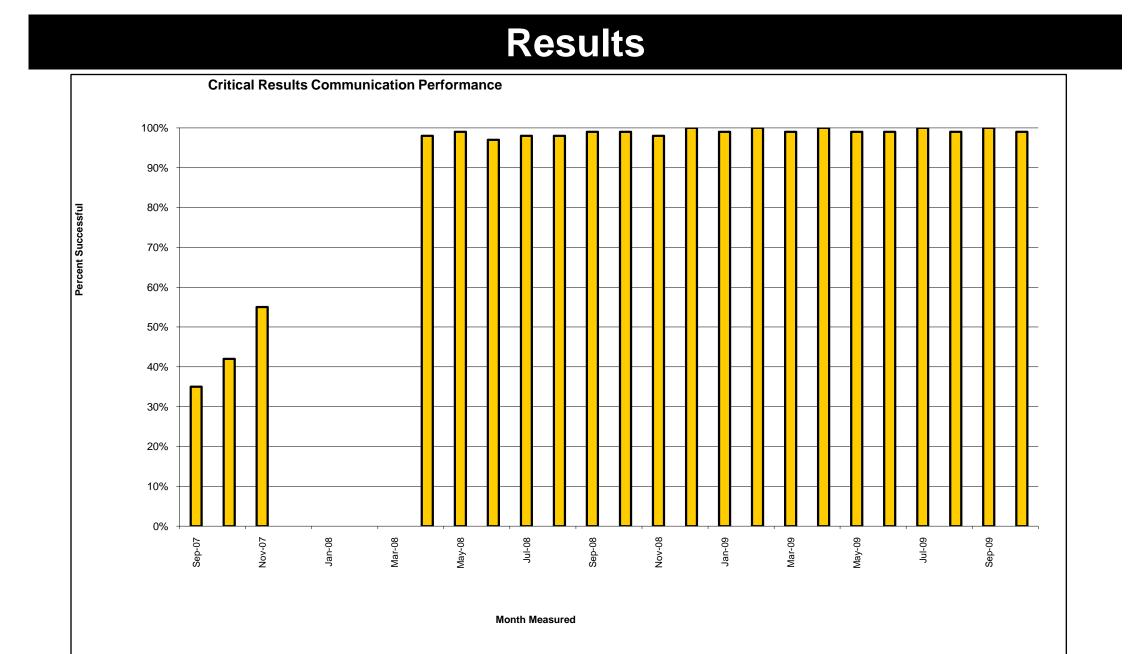
Notification pathways created.

 Ordering clinician profiles validated and education materials distributed. Ongoing follow up and education. Compliance monitoring.

Daily auditing process established for reporting and documentation of Life Threatening CTR's.

- Timeliness of Radiologist report of CTR.
- Timeliness of OC retrieval of CTR.

Veriphy Method Flowchart Communicate Life Threatening Critical Results or Panic Values results within 60 minutes. creates and sends Veriphy Life threatening acts on order Radiologist that message to exam Order entered dictates **--**based on Life Threatening **→** rdering clinicia performed. in CERNER. Interpretation urgency Exam ready for using vithin 60 minute standardized designation format for Life Threatening exams. clinician. Veriphy system Ordering clinician Ordering closes loop and clinician receives documents etrieves messa through Veriphy communications. f message is not retrieved through Veriphy process If ordering clinician does not within 30 minutes, a retrieve message within 10 designee within VCU Healt minutes, the OC and the back-up System is notified and are contacted by Veriphy at 10 follows procedure for minutes, 20 min, and 30 min or until message is retrieved. manual follow up of CTR.



- ➤Order entry designation dictates urgency of notification response.
- ➤ Ordering clinician actively engaged in urgency of exam completion and result turnaround.
- ➤ Within the first month of implementation, compliance with 60 minute turn-around time for life threatening tests from went from 35% to 99%.
- ➤ Use of virtual pagers for medical teams to address issue of rotating residents continues to grow in demand adding to success of Veriphy system.
- ➤ Continued success in ED Recall at 100%

Conclusions

Implementing five exam priority choices in conjunction with the CTR system (Veriphy) created a completely closed loop system that:

- •vastly improved efficiency of communicating CTR's to ordering clinicians.
- •automated documentation process for communications.
- •reduced turn-around time for reporting results.
- •improved ability to track and trend success.

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