

Lung Rapid Assessment and Management Program - Process Improvement Project (LungRAMP – PIP)

Decreasing wait times for a cancer diagnosis

Background: LungRAMP

 The UHN Lung Rapid Assessment and Management Program (LungRAMP) is an outpatient diagnostic and treatment program, launched in 2010 to assess and manage patients with presumed lung cancer in the shortest possible timeframe.

The cancer journey Better cancer services every step of the way prevention screening diagnosis treatment recovery cancer care | action cancer ontario

DAP Goals

- Decrease wait times
- Improve the quality of care
- Improve availability of resources for both patients and referring physicians
- Improve the patient experience
- Improve patient outcomes
- Reduce system waste



LungRAMP PIP Project Overview

REASON FOR ACTION:

- •Ensure LungRAMP is consistently meeting CCO and UHN wait time targets from DAP referral to cancer diagnosis
- •Identify opportunities for improving the quality of care provided to LungRAMP patients through the patient journey (from diagnosis to their transfer to treatment)
- •Reduce CT guided lung biopsy wait times because of the affect on diagnostic timelines of LungRAMP patients



CCO Wait Time Target = 28 days (60th percentile)
UHN Stretch Wait Time Target = 21 days (90th percentile)

Patient Referra First ontact

NN Contact Surgeon Consult

Test Conc

Diagnosis

Baseline Wait Time = 53 days (90th Percentile) 36 days (60th Percentile)

Source: LungRAMP Database Jan 2013 – Apr 2014; Diagnosis date taken as date tissue sample was taken

The Lean Journey

Management

Leverage refined and purposeful facilitation Employ defined project methodology Ensure transparency and ongoing communication

Diagnostics

Improvements

Sustainability

Build relationships of trust Develop vision for future Understand current state Identify areas for improvement Employ specific tools and methodologies Analyze & collaboratively problem solve Implement solutions to achieve vision Drive change via performance metrics

Develop infrastructure to maintain and initiate new improvements



Project Approach

LungRAMP Value Stream Mapping (VSM) May/June 2013

- Conduct initial assessment via interviews and process observations
- Collaboratively analyze LungRAMP patient journey current state by process mapping
- Identify and prioritize opportunities for improvement

Deliverable: Identify high impact current state opportunities

Solution Development August – October 2013

- CT guided lung biopsy day of exam Rapid Improvement Event
- CT guided lung biopsy booking working group
- LungRAMP improvement working group
- Develop solutions to address identified areas of opportunity

Deliverable: Create sustainable solutions

Implementation/ Sustainability Ongoing

- Monitor impact and feasibility of new processes
- Iterative solution development
- Working group meetings with leadership to monitor progress of solution implementation, key performance indicators and take action as required

Deliverable: Continuous quality improvement



Solution Overview

LungRAMP Patient Intake and **Care Planning Processes**

Delay in patient assignment and care planning

Alignment of roles with tasks to facilitate timely care planning

Issues	Implemented Solutions
Nurse Navigator (NN) overloaded with appointment scheduling	✓ Appointment booking conducted by secretaries and communicated to NN via regular huddles
No consistent point of contact for LungRAMP patients	✓ Initial patient call from secretaries establishes consistent single point of contact
	✓ NN conducts follow-up call within 3 days to assess patient's complexity and explain care pathway
Delays and inconsistencies in care planning for patients	✓ Secretaries manage care planning for standard patients
	✓ NN supports surgeon with care planning for complex patients
Unclear which patients are LungRAMP throughout the patient journey	✓ Secretaries flagging patients in EPR to ensure all departments are aware a patient is in LungRAMP



Solution Highlight

Nurse Navigator Workflow



Change Management Tools

- 3 day VSM with front line staff from medical imaging, thoracic surgery, radiation/medical oncology, and pathology
- Multiple sessions of process mapping with LungRAMP staff
- Weekly huddles with Nurse Navigator and LungRAMP Coordinator
- Multiple Q&A sessions with Secretaries to launch new processes

Outcomes

- ✓ Right person doing the right role; clerical tasks owned by Secretaries
- Clear workflow established for Nurse Navigator in patient care planning
- ✓ Partnerships between Nurse Navigator and Secretaries created to plan patient journey
- Collaboration between thoracic surgery department and medical imaging to achieve cross-departmental





Solution Highlight

Biopsy Booking Workflow

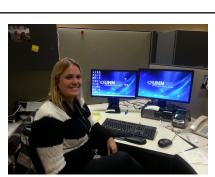
Change Management Tools

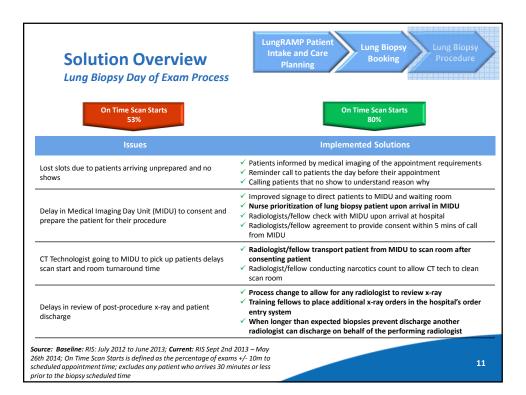
- Weekly working group meetings with front line clerical staff, Supervisors and Managers
- Observations of process flow
- Analysis of booking processes; implementation of a tracking sheet to capture all steps in the booking process and find bottlenecks
- Process mapping events to develop new processes and workflow

Outcomes

- ✓ Redesigned clerical workflow
- ✓ Plan for paperless booking for internal biopsy orders
- Improved communication and tightened connections between medical imaging and referring physicians







Solution Highlight

Lung Biopsy Day of Exam Process

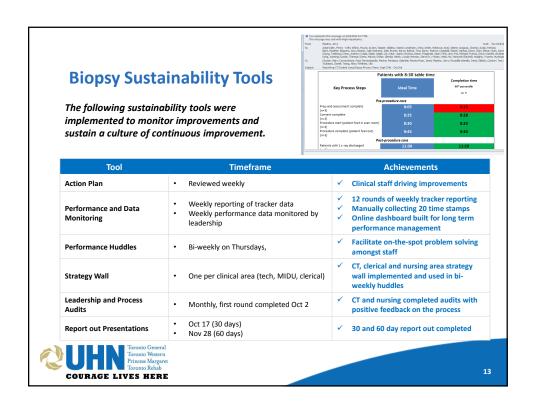
Change Management

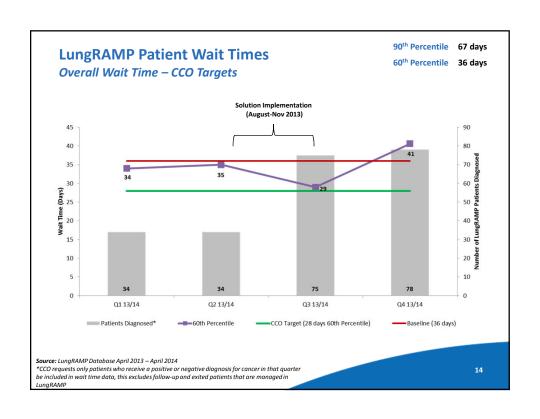
- Observations of process flow
- 2 day RIE with front line staff, Managers, Supervisors and radiologists
- Data analysis of DOE processes; implementation of a tracking sheet to ensure timely execution of process steps
- Weekly working group meetings with, Supervisors and Managers to tweak processes and discuss issues
- Weekly data review with Clinical Manager and instant issue escalation

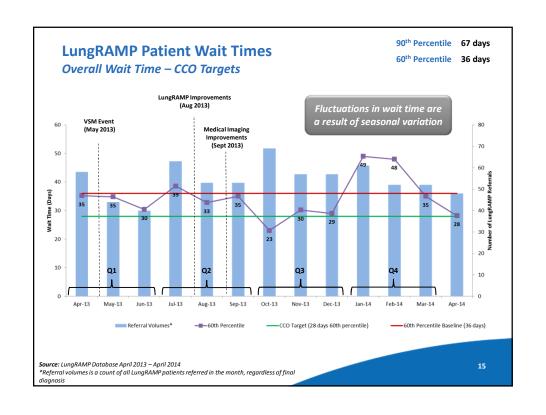
Outcomes

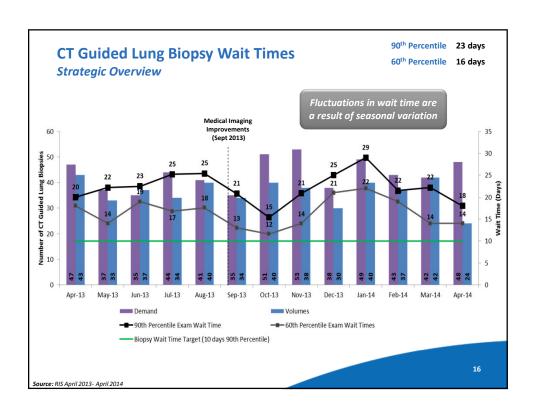
- $\checkmark\quad \text{Increased communication between staff on the day of the exam}$
- $\checkmark \quad \text{Increased satisfaction amongst staff}$
- ✓ Increased transparency and accountability for hand-offs
- ✓ Standards of work created for all staff involved in the process

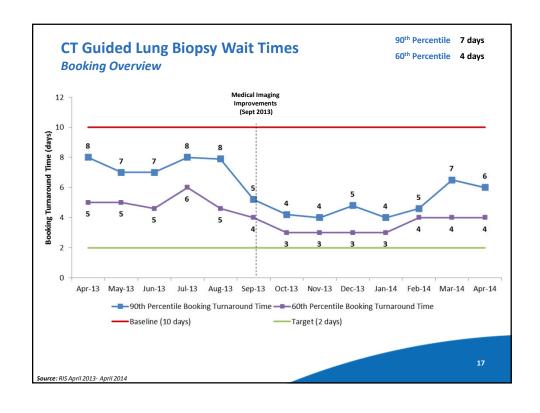


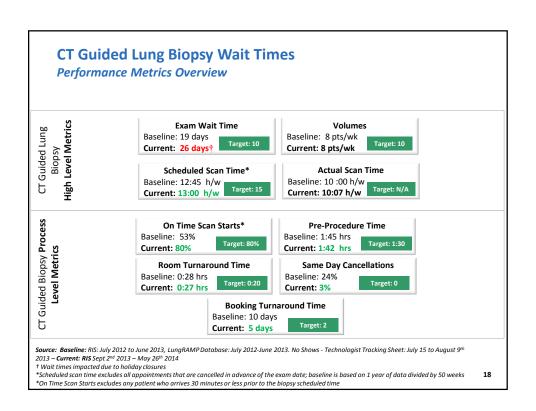












Lessons Learned

- Improvements take time
- Must understand current state so you can improve the future
- Strong, active leadership is essential
- Dedicated project management resources are critical
- Cross-departmental initiative gave better understanding of opportunities for improvement



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Conclusion

- Successfully decreased the wait time from referral to diagnosis and improved the quality of care provided to patients in their diagnostic journey.
- Significant gains were made through Lean Process Improvement in the Medical Imaging department - CT guided lung biopsy procedure.
- Cross departmental collaboration with Thoracic Surgery, Medical Imaging and Pathology enabled improvement across the entire patient journey.
- Demonstrated that process redesign and efficient use of existing resources can make high impact and sustainable improvements to patient care.



Contact Information

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Thank you for your interest in the LungRAMP Process Improvement Project.

