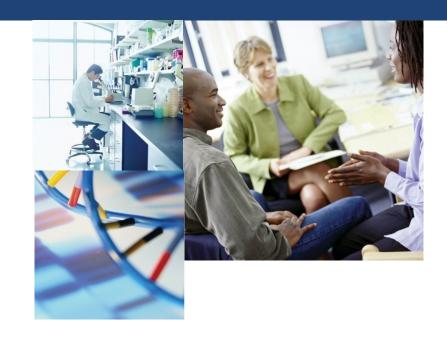


# Lower Mainland Pathology & Laboratory Medicine Gathering Information on Laboratory Quality

Laboratory Quality
Management Conference
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### **BC PSLS**

"Reporting in itself does not improve safety.

It is the response to report that leads to change.

The response system is more important than the reporting system."

World Alliance for Patient Safety, 2005 WHO Draft Guidelines for Adverse Event Reporting and Learning System









# **Lower Mainland Laboratories**



- Fraser Health Authority (FHA)
- Vancouver Coastal Health (VCH)
- Providence Health Care (PHC)
- Provincial Health Services Authority (PHSA)
  - BC Cancer Agency
  - BC CDC / Public Health Labs
  - Children's & Women's Hospital









# **LM Laboratory and Quality Improvement**

- Actively seek opportunities to improve laboratory safety
- Promote a culture of safety
- Use data, including BC PSLS reports, to identify areas for improvement
- Use Plan-Do-Check-Act Model for Improvement













# Where should we focus?

2012 -2014 53%

Process		BC PSLS	Carraro, 2007	Plebani, 2006
Pre-analytic	Collections (51%)	76%	62%	70%
	Order processing or handling (25%)			
Analytic		6%	15%	
Post-analytic		18%	23%	30%

CMPT 2012. Reporting Error in the Laboratory Part II. http://www.cmpt.ca/pdf/pdf connections/connections winter 12 16 4.pdf









# Where should we focus?

2012 -2014: 26%

Pre-analytic Process (collections)	%
Unlabelled/mislabelled sample	16.8
Lost/ leaky/ insufficient/ empty/compromised sample	10.1
Delay in sample collection/delivery	8.4
Incorrect procedure/collection time/delivery	5.3
Incorrect patient/body part/sample type	4.5
Sample / requisition discrepancy/ no requisition	2.3
Other	3.7
Total	51.1

CMPT 2012. Reporting Error in the Laboratory Part II. <a href="http://www.cmpt.ca/pdf/pdf">http://www.cmpt.ca/pdf/pdf</a> connections/connections winter 12 16 4.pdf









#### **Other Drivers**

- Diagnostic Accreditation Program: Patient identification process is a key operational process; internal audits must be conducted for safety.
- Accreditation Canada: At least two client identifiers are used before providing any service or procedure.

Patient Identification...

The right thing to do









# **LM Laboratory Patient Identification Project Overview**

Initiate a cross-health authority patient identification quality improvement project

- Supported by laboratory leaders
- Led by LM Quality Team

#### Goals:

- Improve patient safety
- Validate compliance with patient identification procedures
- Educate staff about best practices for patient identification
- Develop an effective internal audit program









### Collaboration

Lower Mainland Laboratory Quality Team

Patient ID Project

Lower Mainland
Laboratory
Pre- and PostAnalytic Working
Group



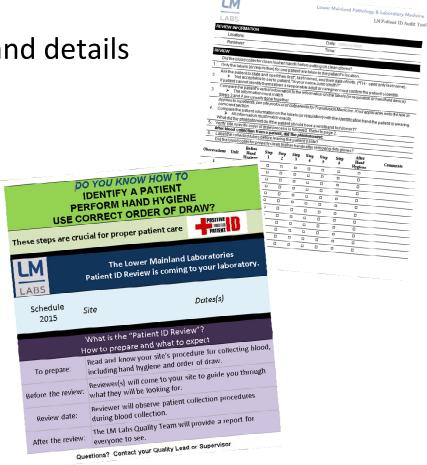






# **Project Plan**

- Define best practices
- Establish scope, audit criteria and details
- Develop communication plans
- Gather evidence that is:
  - Objective
  - Real
  - Connects with staff











# **Five Points of Patient Identification**

- 1. Take only the labels (or requisitions) for one patient to the patient's bedside.
- 2. Ask patient to state and spell their last name, as well as their date of birth.
- 3. Compare the patient's verbal information to the information found on the labels (requisitions or handheld device).
- 4. Compare the patient's information on the labels (or requisition) with the identification band the patient is wearing.
- After blood collection, label collected samples at patient's bedside.







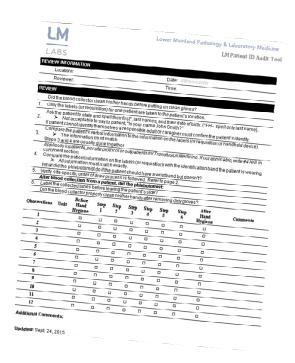


# **Project Method**

- Direct observations
- Checklist









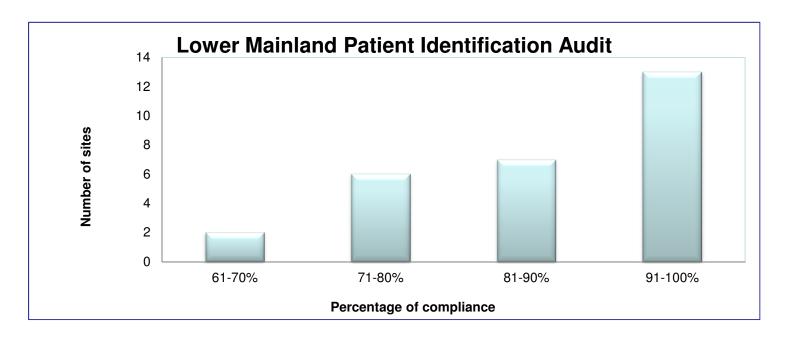






# **Project Results**

- 28 Lower Mainland laboratory site audits conducted (June December 2014)
- 230 phlebotomists observed











# Non-compliance

- Areas of non-compliance:
  - x Patients were not asked to spell their last name or state their date of birth
  - x Tubes were not labeled by bedside



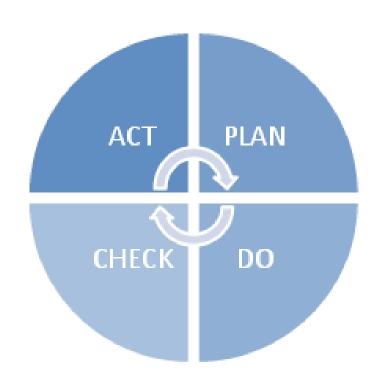






#### **Post-audit**

- Communicated results with stakeholders
- Follow-up actions
  - Standardized procedures
  - Added Competency Assessment to orientation and training program
- Evaluated audit process
  - Standardized the audit procedure
  - Addressed auditor/auditor variations
- Planning next audits











# **Project Results**

#### Goals:

- Improve patient safety
  - Raised awareness about patient safety by identifying noncompliance
- Validate compliance with patient identification procedures
  - All sites above 60% compliance
  - 13/28 sites above 90% compliance (12 sites 100% compliant)
- Educate staff about best practices for patient identification
  - Educated phlebotomy staff about proper patient identification practices through just-in-time education during the audit
- Develop an effective internal audit program
  - Evaluated and standardized audit tool and process









#### Recommendations

- To standardize patient identification procedure across health authorities
- To conduct regular audits across all Lower Mainland laboratories to sustain improvement









#### **2015 Patient Identification Audit**

- Annual audit: September 14 October 2, 2015
- Added observations on before and after hand hygiene, and order of draw

#### Next steps:

 Sharing overall and site results with technical and frontline leaders

#### Future goals:

- Un-announced audits in the future
- Other parts of the path of workflow









# Staff



"Audits are a good reminder of the patient identification process and the importance of positive patient identification."

"I want to know if I am doing things correctly!"









#### So what? What differences have audits made?

- 1. Increased staff engagement
- 2. Raised awareness of importance of proper patient identification to keep patients safe
- Fostered safety culture
- 4. Highlighted opportunities for improvement
- 5. Validated compliance with standard operating procedures
- 6. Measured effectiveness of quality improvement project









# **Summary**

- Data such as BC PSLS reports can help define focus for quality improvement efforts
- Quality improvement process helps raise awareness of best practices and patient safety
- Measurement is needed in addition to BC PSLS data to evaluate effectiveness of quality improvement initiative
- When staff see leaders responding to patient safety event reports through quality improvement, they see the value in reporting and are more likely to report in the future









"What is not reported cannot be thoroughly investigated. What is not thoroughly investigated cannot be changed. What is not changed cannot be improved."

Centre for Chemical Process Safety













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