e-LAB Solutions Connect™

Automated Proficiency Test Reporting

October 7, 2015

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Agenda – e-LAB Solutions Connect™

1. What is a Proficiency Test?
2. Laboratory challenges with manual PT test reporting
3. e-LAB Solutions Connect Intro/History
4. Case Study
5. Benefits
6. How does it work?
What is a Proficiency Test?

A proficiency test (PT) is simply, a method that you may use to validate a particular measurement process that is required for non-waived tests to meet regulatory and accreditation requirements.

- Laboratories are provided with unknown specimens for testing.
- Laboratories analyze specimens and submit results to CAP for evaluation by entering results manually online through e-LAB Solutions Connect™ or by fax.
- Each laboratory receives an evaluation of their proficiency testing performance and the Participant Summary Report.

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Multiple manual steps required for PT test reporting

A typical flow related to transcription of PT results

- **Gathering Data**
  - Instrument Printouts
  - Worksheets
  - LIS Reports
  - CAP Forms
  - Survey Companion Form

- **Transcribe**
  - Organize Printouts
  - Copy Results to the CAP Form
  - Verify instrument / method codes
  - Verify units of measure
  - Complete Survey Companion Form

- **Enter Data**
  - Key data into e-LAB Solutions and save data
  - Complete Survey Companion Form

- **Verify Data Entry**
  - Give paperwork to someone else
  - They verify the data in e-LAB Solutions
  - Complete Survey Companion Form

- **Double Check**
  - If any correction was made as part of the last step, have third person review and verify the data entry
  - Complete Survey Companion Form

- **Submit**
  - Once all the reviews have taken place, submit data via e-LAB Solutions
  - Complete Survey Companion Form
What is the Impact on the laboratory?

• Staff dedicated to non patient-centric activities that often lead to clerical errors

• **REQUIREMENT:** The laboratory **must** test samples in the same manner as patient specimens
  
  *(CLIA 88, Section 493-801)*

• Clerical errors are the primary cause of PT failure 40% of PT clerical errors result in compliance notices*

  *Survey of proficiency testing compliance notices conducted by the CAP between 2007-2012*
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Two leaders working together developed an automated PT submission solution

CAP is the leading provider of proficiency testing

• Over 22,000 PT subscribers in 70 countries
• The most comprehensive offerings across all disciplines

DI is the world’s largest laboratory middleware company

• 6,500+ Installations in 70+ countries with 40+ industry partnerships
It’s about TIME

e-LAB Solutions Connect

Automated Proficiency Testing Reporting
Accession, Analyze, Review and Submit
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Can Case Study *

• Profile
  – CompuNet Clinical Laboratories
  – Quest partnership facility
  – 19 steps identified by process map
    ▪ Nearly 90% of the steps are unique to PT samples
  – 347 challenges

* How to Reduce Clerical Errors Run Proficiency Testing As If Testing a Patient Specimen
Mark Shearer, MCLT, MT(ASCP) Director of Chemistry, CompuNet Clinical Laboratories
CAP Case Study *

– Key Findings:

- Reduce PT workflow steps by 63%
  - 19 steps to 7 steps
- Save more than 500 hours of staff time annually.
- Savings: $18,000 in first year alone
- Eliminate most possibilities for clerical errors
- Better allocate staff to more profitable and productive, patient-centric activities.

* How to Reduce Clerical Errors Run Proficiency Testing As If Testing a Patient Specimen
Mark Shearer, MCLT, MT(ASCP) Director of Chemistry, CompuNet Clinical Laboratories
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# e-LAB Solution Connect: Streamlining the process

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• Worksheets  
• LIS Reports  
• CAP Forms  
• Survey Companion Form | • Organize Printouts  
• Copy Results to the CAP Form  
• Verify instrument / method codes  
• Verify units of measure  
• Complete Survey Companion Form | • Key data into e-LAB Solutions and save data  
• Complete Survey Companion Form | • Give paperwork to someone else  
• They verify the data in e-LAB Solutions  
• Complete Survey Companion Form | • If any correction was made as part of the last step, have third person review and verify the data entry  
• Complete Survey Companion Form |

Before

- Once all the reviews have taken place, submit data via e-LAB Solutions  
- Complete Survey Companion Form
e-LAB Solution Connect: Streamlining the process

After

- Gathering Data
  - Activities
    - LIS Reports
    - Survey Companion Form

- Review
  - Activities
    - Review Instrument / Method Codes
    - Review results
    - Complete Survey Companion Form

- Submit
  - Activities
    - Approve via e-LAB Solutions
    - Complete Survey Companion Form
e-LAB Solutions Connect™ - Benefits

• Save time, money, and resources with automated PT reporting.
  • Allows your staff to focus on laboratory and patient activities
  • Improves staff efficiency
  • Enhances job satisfaction

• Eliminate clerical errors from manual transcription, reducing PT failures.

• Run CAP PT more like a patient sample.
  • Follows normal laboratory workflow
  • Allows staff to focus on other critical laboratory activities
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How does it work?

General:
What are the requirements to get started?

- Middleware software from Data Innovations
  - Instrument Manager (IM) version 8.07 or higher with Specimen Management
- Inbound & outbound firewall access
  - Port 443 – Secure Socket Level
- CAP driver installation
  - IM connection for the CAP/DI driver
- Rule installation
  - Route CAP PT results to e-LAB Solutions
- Create and maintain mapping for CAP PT test results
Resources to help you get connected

- **Five eLearning modules**
  - Getting Connected to the CAP
  - Mapping Your Proficiency Testing Menu to the CAP Codes
  - Reviewing, Approving and Tracking Test Results
  - Creating Instrument Manager Rules for e-LAB Solutions Connect
  - Test Submission Service

- **Users Guide**
- **Data Innovations Services**
- **Cost Savings Calculator**
Summary

• Ability to reduced “special PT only” steps by 63+-run pt more like a patient sample
• Save more than 500 hours of staff time annually.
• Hard dollar savings: $18,000 in first year alone
• Elimination of most possibilities for clerical errors
• Better allocate your staff to more profitable and productive, patient-centric activities.
Does it Work?

• 2009
  • 10 Clerical Errors
    • Entered Not Verified
    • Wrong Instrument
    • Wrong Units
    • Sample Mix-Up

• 2013
  – 1 Clerical Error
    ▪ Qualitative Result not support through eLAB Solutions

• 2014
  – 1 Clerical Error
    ▪ Instrument Changed and not updated with the CAP
Contact Information

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CAP Email: eLabConnect@cap.org
CAP Phone: 800.323.4040 or 847.832.7000 option 1

DI Email: northamerica-sales@datainnovations.com
DI Phone: 802.264.3470
Thank you for your time!

Questions / Next Steps