



RESOURCE AND PATIENT MANAGEMENT SYSTEM

Introduction to the Advanced Laboratory Package

Announcement and Agenda

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Office of Information Technology
Division of Information Technology

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1.0 Purpose of Training

This advanced laboratory course is designed for persons assigned the responsibility for using and maintaining the Laboratory Package at their site. Participants will continue to build on laboratory file structure and maintenance subject matter that has been presented in the introductory and intermediate classes.

The advanced class will help sites configuring their database and manage Laboratory Information System (LIS) workflow at their facility by providing ongoing support of the laboratory package.

The training consists of lecture with PowerPoint presentations, demonstration of the tool, and hands-on exercises using individual computer terminals and a simulated training database.

This class will provide an overview of the Laboratory Test/Panel configurations in RPMS. The curriculum will include an in depth discussion on the use of age and gender reference ranges and the use of delta values with respect to calculated values. Additional information will be provided on the use of parameters in the Auto Instrument file to enable the transformation of results. A specific focus will be a review of reference laboratory test configurations and nomenclature including requirements for panels and ask at order tests.

The class will cover instrument interface configurations. An overview of required file configurations on the Data Innovations server will be discussed with the understanding that this maintenance is the responsibility of the site/facility and Data Innovations.

Electronic Health Record (EHR) Laboratory Test Objects, Infection Control Consults and Notifications will be covered.

2.0 Prerequisites

Participants have to be proficient with Advanced Resource and Patient Management System (RPMS) Laboratory functions, including:

- Use of Multipurpose Accessioning.
- Review of Order/Test Status.
- Manual Result (test) entry and verification.
- Review of patient Interim Reports.
- Familiarity with the Indian Health Service (IHS) EHR Laboratory Order process.
- Have knowledge of RPMS VA FileMan laboratory files - Day One Files.
- Have knowledge of EHR laboratory test order configurations.
- Have knowledge of VA FM Enter/Edit; Search; Print and Inquiry functionality.
- Have attended prior IHS RPMS training classes Introductory and/or Intermediate for Laboratory Package.
- Routinely build and maintain laboratory test and day one files.
- Understand that not having attended prior RPMS Lab Package trainings will affect the training participant's ability to successfully keep up with the trainer and more advanced lab package participants.

3.0 Intended Audience

The Advanced Laboratory Package class is oriented towards (but *not* limited to) Laboratory professionals (e.g., Medical Laboratory Technicians and Medical Laboratory Technologists) who process Laboratory Tests at their facilities and have responsibility for maintenance and integration into the EHR. This course assumes that participants do have some knowledge of the RPMS Laboratory Suite (RPMS-LAB) and both EHR and RPMS.

This training has been prepared specifically for:

- RPMS Laboratory Package owners.
- Area Laboratory Consultants.
- Area and Site Clinical Application Coordinators supporting RPMS-LIS.
- Users from related services:
 - Pharmacy.
 - Nursing.
 - Laboratory.
 - Radiology.

4.0 Learning Objectives

At the end of this training, participants should be able to:

- Understand RPMS Lab Day One files to accommodate the testing performed in the laboratory.
- Result tests using manual entry options for testing configurations
- Summarize Advanced laboratory terminology.
- Perform Advanced FileMan tasks.
- Perform Advanced RPMS tasks.
- Review/complete the anatomy of a laboratory test - data name.
- Define the LIS workflow and its interactions with other RPMS modules.
- Generate Patient LIS Reports.
- Review the Reference LIS Interface and Resolve basic reference laboratory interface issues
- Configure an instrument interface and have a basic knowledge of the Data Innovations server configuration
- Maintain the RPMS Lab Package.
- Populate test taxonomies required for proper data collection in Diabetes Management System, and Government Performance and Results Act reporting.
- Recognize the importance of Clinical Laboratory Improvement Amendments, Joint Commission, and other regulations as they relate to laboratory policies and procedures.
- Attain an Advanced understanding of the interrelationship of RPMS with Third-Party Billing and the Patient Care Component, and be able to maintain the BLR link.
- Edit EHR Laboratory Note Objects; Infection Control Consults and Templates for Generic Orders/Order Sets necessary for Ask at Order Entry questions.
- Troubleshoot laboratory package issues within RPMS-EHR

5.0 Detailed Agenda

All Times are Mountain Daylight Time

5.1 Day One – Tuesday

Start	Topic
8:30 am	Welcome: <ul style="list-style-type: none"> • Introductions • Review agenda and learning objectives
9:00 am	Review of Introductory and Intermediate Laboratory Training Items Complete exercises and scenarios: <ul style="list-style-type: none"> • VA FileMan (Enter/Edit; Inquire; Search; Print) – Complete two or three RPMS FM Search functions • Day 1 Files – Written Exercise • Data Names – RPMS Exercise • File 60 – Review, complete assigned test builds RPMS Exercise • Reference Lab Mapping for tests with AOE questions and without AOE. RPMS exercise • LOINC/UCUM Review • Lab Description Review • IHS LAB Current Procedural Terminology (CPT) Codes RPMS Exercise for test builds • BLR INQ or VISIT FILE RPMS Exercise for test builds • Cumulative Reports Review • EHR Quick Orders, Generic Orders, Order Sets, Order Menus, Templates RPMS and EHR exercise • POC BLR BEHO POC Review • Microbiology templates RPMS Exercise • Quality Control Files and Mimic Samples Review Break will be included in this session
12:00 pm	Lunch
1:00 pm	Continuation of Review and Exercise Materials Break will be included in this session
3:00 pm	<ul style="list-style-type: none"> • BLR Transaction Log and PCC Review • Coding Routine for in house Orphan Visits Review • Completion of Lab Only Visits Review
4:30 pm	Questions and Site Specific Issues from Participants
5:00 pm	Adjourn

5.2 Day Two – Wednesday

Start	Topic
8:30 am	Review Previous Day's Training: <ul style="list-style-type: none"> • Questions from Day 1 • Day Two Objectives
9:00 am	<ul style="list-style-type: none"> • Reference Lab test building RPMS Exercise for AOE Mapping and non AOE tests; AOE's will include Generic Test mapping. • Troubleshooting incoming Reference Lab Messages Review • Reference Laboratory Package Maintenance Review
10:45 am	Break
11:00 am	<ul style="list-style-type: none"> • Taxonomies • Laboratory Test specific and RPMS Exercise
12:00 pm	Lunch
1:00 pm	<ul style="list-style-type: none"> • EHR Laboratory Notification System and Laboratory Test Objects • RPMS Exercise
2:00 pm.	Microbiology Reports - Review
2:45 pm	Break
3:00 pm	Laboratory RPMS/DI Interface Configurations Review <ul style="list-style-type: none"> • Load/Work List RPMS Exercise • Auto Instrument RPMS Exercise • Topography RPMS Exercise
4:00 pm	<ul style="list-style-type: none"> • MUMPS for Reference Ranges • Auto Instrument • Delta Checks RPMS Exercise
4:30 pm	Questions and Site Specific Issues from Participants
5:00 pm	Adjourn.

5.3 Day Three – Thursday

Start	Topic
8:30 am	Review Previous Day's Training: <ul style="list-style-type: none"> • Questions from Day Two • Day Two Objectives
9:00 am	<ul style="list-style-type: none"> • Infection Control Consults for EHR • Reportable Laboratory Diseases • RPMS-EHR Exercise
10:30 am	Break
10:45 am	Purging Laboratory Orders option for RPMS-EHR Review
12:00 pm	Lunch
1:00 pm	<ul style="list-style-type: none"> • Qualitative Critical Value Test Set up • RPMS Exercise
1:30 pm	Maintenance for the RPMS Laboratory Package Review
2:00 pm	<ul style="list-style-type: none"> • Additional Lab Package features • Did you know? Review
2:45 pm	Break
3:00 pm	<ul style="list-style-type: none"> • Laboratory CSI Exercises • SME troubleshooting • Written Exercise
4:30 pm	Questions/Survey Monkey
5:00 pm	Adjourn

Glossary

Accession Area

A functional area or department in the laboratory where specific tests are performed.

Accession Number

A unique alphanumeric (combination of letters and numbers) assigned to an individual patient specimen when it is received in the laboratory.

Client Bill

The reference laboratory sends a consolidated bill for all testing performed for a site to the collecting facility on a periodic basis regardless of any patient payor status.

Electronic Health Record

A GUI tool used for both entry and display of patient demographic and clinical data.

File

A set of related records or entries treated as a single unit.

FileMan

The database management system for the VA's VistA system and the IHS RPMS system.

Graphical User Interface

A Windows based application that allows use of the mouse and standard Windows tools for displaying data, accessing menus, and initiating actions.

Health Level Seven

An ANSI approved American National Standard for electronic data exchange in health care

International Classification of Diseases

A medical classification list by the World Health Organization. Formally known as the International Statistical Classification of Diseases and Related Health Problems.

ICD-9

The 9th revision of the International Classification of Diseases.

ICD-10

The 10th revision of the International Classification of Diseases.

Internal Entry Number

A unique number used to identify an entry within a file.

Indian Health Service

An Operating Division within the U.S. Department of Health and Human Services.

Menu

A list of choices for computing activity. A menu is a type of option designed to identify a series of items (other options) for presentation to the user for selection.

MUMPS

Massachusetts General Hospital Utility Multi-Programming System, or alternatively M, is a general-purpose computer programming language that provides Atomicity, Consistency, Isolation, Durability transaction processing.

Order

An electronic, written, or verbal request to have one or more laboratory tests performed.

Option

An RPMS menu selection to perform a desired action.

Parameter

A name in a function or subroutine definition that is replaced by, or bound to, the corresponding actual argument when the function or subroutine is called.

Resource and Patient Management System

A suite of software applications used at IHS facilities to support administrative, clerical, and clinical functions.

Veterans Health Information Systems and Technology Architecture

An enterprise-wide information system built around an Electronic Health Record (EHR), used throughout the VA medical system.

Third Party Billing

A reference laboratory interface is called a Third Party Billing interface if patient insurance information is sent along with the laboratory test orders. The reference laboratory can directly bill any third party payers for the laboratory testing performed using that information.

Acronym List

Acronym	Meaning
CPT	Current Procedural Terminology
EHR	Electronic Health Record
GUI	Graphical User Interface
HL7	Health Level Seven
IHS	Indian Health Service
LIS	Laboratory Information System
PCC	Patient Care Component
RPMS	Resource and Patient Management System
VA	United States Department of Veterans Affairs
VistA	Veterans Health Information Systems and Technology Architecture