



**LAB PATCH# LR\*5.2\*395**  
**RELEASE NOTES**

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**SEPTEMBER 2009**

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## Installation Requirements

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### Required Patches

Below is a list of patches that you must verify are properly installed on your system before LR\*5.2\*395 can be installed:

- LR\*5.2\*286
- LR\*5.2\*312
- LR\*5.2\*344
- LR\*5.2\*364
- LR\*5.2\*372

## New Functionality

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- **Add Test Status to CPRS Lab Report APIs:** In the Lab Results report on the Labs tab, CPRS used to display only verified lab results. CPRS did not display Lab Specimens that had been collected but not verified with the results.

Resolution: Three reports on the Lab Tab in CPRS have been modified to address this issue.

The following reports now display the collection status:

- Most Recent
- All Tests by Date
- Selected Tests by Date

These reports on the Labs Tab in CPRS will call a modified Lab API that will provide the status of a specimen that has been collected and in process in the Lab. This patch modifies the Lab routines used in this API to accomplish the desired functionality.

Examples of the changes as will be seen in specified lab reports on the CPRS Labs tab.

## Most Recent

Vista CPRS in use by: Cprsprprovider, Two (cprsnod1)

File Edit View Tools Help

**A LAB Sep 01,09 13:56** Primary Care Team Unassigned  
Provider: Cprsprprovider, Two

Lab Results

- Most Recent
- Cumulative
- All Tests by Date
- Selected Tests by Date
- Worksheet
- Graph
- Microbiology
- Anatomic Pathology - All Reports
- Blood Bank
- Lab Status

Most Recent

Oldest Previous Collected Next Newest

<< < **Sep 01, 2009 14:13** > >>

Test	Result	Flag	Units
PAIN CLINIC PANEL	Collected - Specimen In Lab		

Specimen: URINE; Accession: BHI 0900 1; Provider: CPRSPROVIDER,TWO  
Report Released Date/Time:

KEY: "L" = Abnormal Low, "H" = Abnormal High, "" = Critical Value

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This shows the new status “Collected”. Another possible status is “On Collection List”.

## All Tests by Date Collected and On Collection List

Vista CPRS in use by: Cprsprprovider, Two (cprsnod1)

File Edit View Tools Help

Visit Not Selected  
Provider: Cprsprprovider, Two

Primary Care Team Unassigned

Lab Results

- Most Recent
- Cumulative
- All Tests by Date
- Selected Tests by Date
- Worksheet
- Graph
- Microbiology
- Anatomic Pathology - All Reports
  - Autopsy
  - Cytology
  - Electron Microscopy
  - Surgical Pathology
- Blood Bank
- Lab Status

Date Range

Date Range...

Today

One Week

Two Weeks

One Month

Six Months

One Year

Two Years

All Results

All Tests by Date [From: Aug 25, 2009 to Sep 02, 2009]

----- MICROBIOLOGY -----

Accession: MP0 09 19 Received: Sep 01, 2009 17:28  
Collection sample: BLOOD Collection date: Sep 01, 2009 17:28  
Provider: CPRSPROVIDER,TWO  
Comment on specimen: Lab comment on Pinworm exam

Test(s) ordered: PINWORM EXAM completed: Sep 01, 2009 17:29

\* PARASITOLOGY PRELIMINARY REPORT => Sep 01, 2009 TECH CODE: 160440

PARASITOLOGY SMEAR/PREP:

amo  
AMOBARBITAL POSITIVE  
ABO  
\*\*\*PINWORM EXAM

Parasitology Remark(s):  
Parasite Rpt Remark  
\*\*\*PINWORM EXAM

=====

Report Released Date/Time:  
Provider: CPRSPROVIDER,TWO  
Specimen: SERUM. WAX 0901 1  
Specimen Collection Date: 09/01/2009 14:30

Test name	Result	units	Ref.	range	Site Code
MI PANEL	On Collection List				

=====

Report Released Date/Time:  
Provider: CPRSPROVIDER,TWO  
Specimen: URINE. BHI 0900 1  
Specimen Collection Date: 09/01/2009 14:13

Test name	Result	units	Ref.	range	Site Code
PAIN CLINIC PANEL	Collected - Specimen In Lab				

=====

Report Released Date/Time: Sep 01, 2009@14:08  
Provider: CPRSPROVIDER,TWO  
Specimen: SERUM. WAC 0901 2  
Specimen Collection Date: 09/01/2009 14:08

Test name	Result	units	Ref.	range	Site Code
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Cover Sheet Problems Meds Orders Notes Consults Surgery D/C Summ Labs Reports

On the Labs tab, the All Tests by Date report shows the status of tests as “On Collection List” and “Collected – Specimen in Lab”.

## Selected Tests by Date

**Vista CPRS in use by: Cprsprovider, Two (cprsnod1)**

File Edit View Tools Help

**Visit Not Selected** Primary Care Team Unassigned  
Provider: Cprsprovider, Two

**Lab Results**

- Most Recent
- Cumulative
- All Tests by Date
- Selected Tests by Date**
- Worksheet
- Graph
- Microbiology
- Anatomic Pathology - All Reports
  - Autopsy
  - Cytology
  - Electron Microscopy
  - Surgical Pathology
- Blood Bank
- Lab Status

**Selected Tests by Date [From: Aug 25,2009 to Sep 02,2009]**

Report Released Date/Time:  
Provider: CPRSPROVIDER,TWO  
Specimen: SERUM. WAX 0901 1  
Specimen Collection Date: 09/01/2009 14:30

Test name	Result	units	Ref.	range	Site Code
MI PANEL	On Collection List				

Report Released Date/Time:  
Provider: CPRSPROVIDER,TWO  
Specimen: URINE. BHI 0900 1  
Specimen Collection Date: 09/01/2009 14:13

Test name	Result	units	Ref.	range	Site Code
PAIN CLINIC PANEL	Collected - Specimen In Lab				

Report Released Date/Time: Sep 01, 2009@14:08  
Provider: CPRSPROVIDER,TWO  
Specimen: SERUM. WAC 0901 2  
Specimen Collection Date: 09/01/2009 14:08

Test name	Result	units	Ref.	range	Site Code
SODIUM	34 L*	meq/L	135 - 148		[541]

Comment: Lab comment for NA  
Lab comment for NA - line 2

Report Released Date/Time: Sep 01, 2009@14:12  
Provider: CPRSPROVIDER,TWO  
Specimen: SERUM. WAC 0901 1  
Specimen Collection Date: 09/01/2009 14:05

Test name	Result	units	Ref.	range	Site Code
UREA NITROGEN	10	mg/dL	10 - 26		[541]
POTASSIUM	12.0 H*	meq/L	3.7 - 5.0		[541]
Eval: GERIATRIC REFERENCE RANGE: 3.7- 5.7 meq/L					
DIR. BILIRUBIN	54 H	mg/dL	0 - .4		[541]

Comment: Lab comment for direct bilirubin  
For eGFR: Race unknown, if African American multiply result by 1.210  
\*SODIUM Not Performed: 09/01/2009 2:20 pm by 160440  
\*NP Reason:Duplicate test

KEY: "L" = Abnormal Low, "H" = Abnormal High, "\*" = Critical Value

Other Tests

Date Range  
Date Range...  
Today  
**One Week**  
Two Weeks  
One Month  
Six Months  
One Year  
Two Years  
All Results

Cover Sheet Problems Meds Orders Notes Consults Surgery D/C Summ Labs Reports

On the Selected Tests by Date report on the CPRS Labs tab shown here, the added red boxes show the status of the tests.

- **New Completed/Release Date for Reports Added**

Resolution: The date when a completed was released is now included in the report text as well. This was in response to a medical center requesting this change after an inspection.

**Completed/Release Date on Most Recent**

**VistA CPRS in use by: Cprsprprovider, Two (cprsnod1)**

File Edit View Tools Help

**A LAB Sep 01,09 13:56** Primary Care Team Unassigned  
 Provider: Cprsprprovider, Two

**Lab Results**

- Most Recent
- Cumulative
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- Selected Tests by Date
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- Blood Bank
- Lab Status

**Most Recent**

Oldest Previous Collected Next Newest  
 << < **Sep 01, 2009 14:05** > >>

Test	Result	Flag
GLUCOSE	pending	
UREA NITROGEN	10	
CREATININE	1.5	
POTASSIUM	12.0	H*
CHLORIDE	45	L
CO2	31.0	H
CALCIUM	4.0	L*
DIR. BILIRUBIN	54	H
LIPEMIA	32	
ICTERIC	123	
EGFR (CALCULATED)	48	L

Specimen: SERUM; Accession: WAC 0901 1; Provider: CPRSPROVIDER,TWO  
 GLUCOSE Eval: Geriatric: 65-135 mg/dL.  
 CREAT Eval: non-ambulatory: 0.7- 1.3 mg/dl  
 CREAT Eval: ambulatory: 0.9- 1.5 mg/dl  
 CREAT Eval: geriatric: 1.0-1.8 mg/dl  
 K Eval: GERIATRIC REFERENCE RANGE: 3.7- 5.7 meq/L  
 EGFR-C Eval: eGFR results >60 are imprecise. Many variables affect the calculated  
 EGFR-C Eval: result. Interpretation of eGFR results >60 must be monitored over time.  
 Comment:  
 Lab comment for direct bilirubin  
 For eGFR: Race unknown, if African American multiply result by 1.210  
 \*SODIUM Not Performed: 09/01/2009 2:20 pm by 160440  
 \*NP Reason: Duplicate test  
 Performing Lab: CLEVELAND VAMC 10701 EAST BLVD CLEVELAND, OH 44106  
**Report Released Date/Time: Sep 01, 2009@14:12**

KEY: "L" = Abnormal Low, "H" = Abnormal High, "\*" = Critical Value

Cover Sheet Problems Meds Orders Notes Consults Surgery D/C Summ Labs Reports

The Report Released Date/Time is now included in the Most Recent report as well (in red box).

## Report Released Date on All Tests by Date

Vista CPRS in use by: Cprsprvider, Two (cprsnod1)

File Edit View Tools Help

Visit Not Selected  
Provider: Cprsprvider, Two

Primary Care Team Unassigned

Lab Results

- Most Recent
- Cumulative
- All Tests by Date
- Selected Tests by Date
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  - Surgical Pathology
- Blood Bank
- Lab Status

Date Range

- Date Range...
- Today
- One Week
- Two Weeks
- One Month
- Six Months
- One Year
- Two Years
- All Results

All Tests by Date [From: Aug 25,2009 to Sep 02,2009]

----- MICROBIOLOGY -----

Accession: MPO 09 19      Received: Sep 01, 2009 17:  
Collection sample: BLOOD      Collection date: Sep 01, 2  
Provider: CPRSPROVIDER,TWO  
Comment on specimen: Lab comment on Pinworm exam

Test(s) ordered: PINWORM EXAM      completed: Sep 01, 200

\* PARASITOLOGY PRELIMINARY REPORT => Sep 01, 2009      TECH CODE: 16

PARASITOLOGY SMEAR/PREP:

amo  
AMOBARBITAL POSITIVE  
ABO  
\*\*\*PINWORM EXAM

Parasitology Remark(s):  
Parasite Rpt Remark  
\*\*\*PINWORM EXAM

=====

Report Released Date/Time: .....  
Provider: CPRSPROVIDER,TWO  
Specimen: SERUM.      WAX 0901 1  
Specimen Collection Date: 09/01/2009 14:30  
Test name      Result      units      Ref.      range  
MI PANEL      On Collection List

=====

Report Released Date/Time: .....  
Provider: CPRSPROVIDER,TWO  
Specimen: URINE.      BHI 0900 1  
Specimen Collection Date: 09/01/2009 14:13  
Test name      Result      units      Ref.      range  
PAIN CLINIC PANEL      Collected - Specimen In Lab

=====

Report Released Date/Time: Sep 01, 2009@14:08  
Provider: CPRSPROVIDER,TWO  
Specimen: SERUM.      WAC 0901 2  
Specimen Collection Date: 09/01/2009 14:08  
Test name      Result      units      Ref.      range

Cover Sheet Problems Meds Orders Notes Consults Surgery D/C Summ Labs Reports

This screen capture shows where the Report Released Date/Time shows.



## Selected Tests by Date

**Vista CPRS in use by: Cprsprprovider, Two (cprsnod1)**

File Edit View Tools Help

**Visit Not Selected** Primary Care Team Unassigned  
Provider: Cprsprprovider, Two

**Lab Results** Selected Tests by Date [From: Aug 25,2009 to Sep 02,2009]

Most Recent  
Cumulative  
All Tests by Date  
Selected Tests by Date  
Worksheet  
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Other Tests

Date Range  
Date Range...  
Today  
**One Week**  
Two Weeks  
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All Results

Report Released Date/Time:  
Provider: CPRSPROVIDER,TWO  
Specimen: SERUM. WAC 0901 1  
Specimen Collection Date: 09/01/2009 14:30  
Test name Result units Ref. range Site Code  
MI PANEL On Collection List

Report Released Date/Time:  
Provider: CPRSPROVIDER,TWO  
Specimen: URINE. BHI 0900 1  
Specimen Collection Date: 09/01/2009 14:13  
Test name Result units Ref. range Site Code  
PAIN CLINIC PANEL Collected - Specimen In Lab

**Report Released Date/Time: Sep 01, 2009@14:08**  
Provider: CPRSPROVIDER,TWO  
Specimen: SERUM. WAC 0901 2  
Specimen Collection Date: 09/01/2009 14:08  
Test name Result units Ref. range Site Code  
SODIUM 34 L\* meq/L 135 - 148 [541]  
Comment: Lab comment for NA  
Lab comment for NA - line 2

Report Released Date/Time: Sep 01, 2009@14:12  
Provider: CPRSPROVIDER,TWO  
Specimen: SERUM. WAC 0901 1  
Specimen Collection Date: 09/01/2009 14:05  
Test name Result units Ref. range Site Code  
UREA NITROGEN 10 mg/dL 10 - 26 [541]  
POTASSIUM 12.0 H\* meq/L 3.7 - 5.0 [541]  
Eval: GERIATRIC REFERENCE RANGE: 3.7- 5.7 meq/L  
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Comment: Lab comment for direct bilirubin  
For eGFR: Race unknown, if African American multiply result by 1.210  
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On the Selected Tests by Date report on the CPRS Labs tab shown here, the added red box shows the report's Released Date/Time.