



HEALTHe NL HELP PAGES

Laboratory Reports

Newfoundland and Labrador Health Services

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Laboratory Reports

Laboratory reports are displayed as links in the CDV tree. The title of each report link in the CDV tree indicates the name of the report, and the result section contains the test results. Laboratory category contains 5 subcategories: Blood Blank, Chemistry, Hematology, Microbiology and Pathology.

Blood Bank, Chemistry and Hematology reports are numeric results displayed in a table or panel format that may contain some textual observations or comments. Microbiology and Pathology are textual reports.

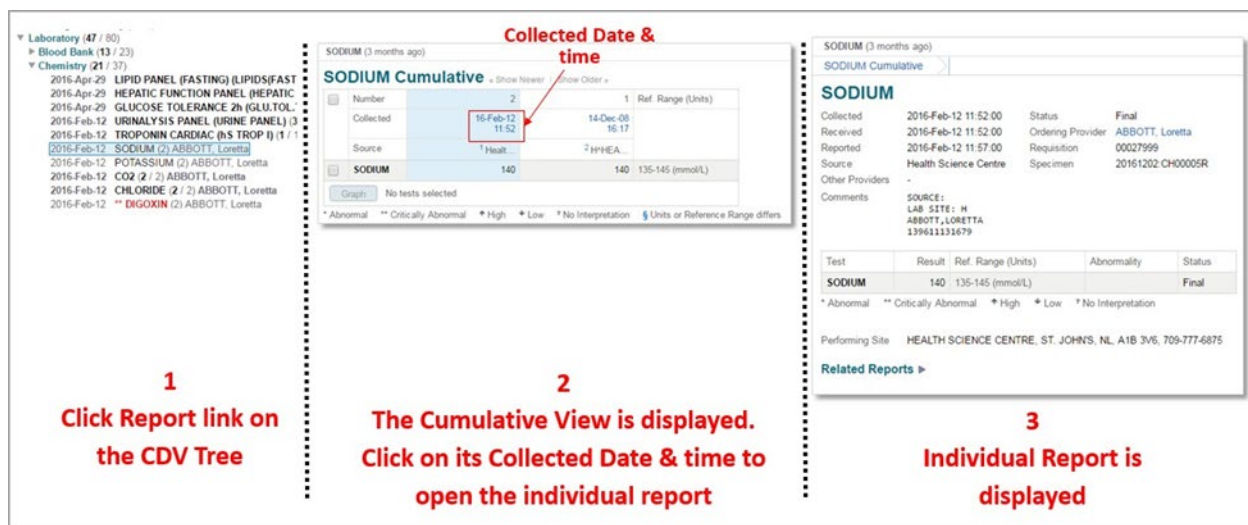
1. Blood Bank, Chemistry, and Hematology Reports

Blood Bank, Chemistry and Hematology reports are numeric results typically displayed in a table or panel format that may contain some textual observations or comments. Only these reports are "rolled up" in the CDV tree, so multiple reports of the same type have one line entry in the CDV tree.

1.1. Opening an Individual Report

Before a user can see an individual Blood Bank, Chemistry or Hematology report, the cumulative view is opened. To see an individual Blood Bank, Chemistry or Hematology report, the following steps need to be followed (*Figure 1*).

1. Click the report link on the CDV tree.
2. The Cumulative View is displayed which contains a table of this report's test results over time.
3. Click on its Collected Date (in the Cumulative View) to access an individual report.



1
Click Report link on the CDV Tree

2
The Cumulative View is displayed.
Click on its Collected Date & time to open the individual report

3
Individual Report is displayed

Figure 1: Example of how to open an individual Blood Bank, Chemistry or Hematology Report

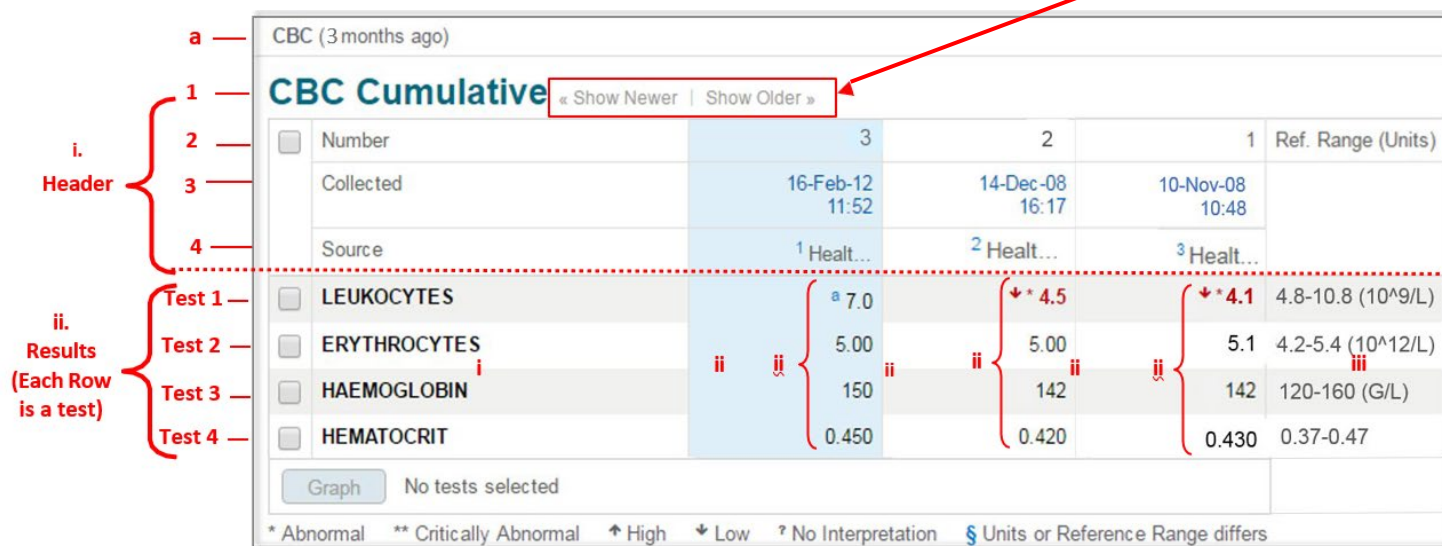
1.2. Understanding the Cumulative View

The Cumulative View presents a series of reports of the same type (i.e., having the same report mnemonic code) over time. They are presented in a tabular view, in ascending order by Collected Date, with the five newest reports presented first in the default view. The newest report is displayed on the left and highlighted in blue. Next to the report's name "<< Show Older" and "Show Newer >>" links are available to navigate through the entire series of reports. Displaying reports in the Cumulative View helps to quickly identify any trends or patterns that may be present for a series of test results.

When viewing cumulative reports, a table is displayed with the following sections (**Figure 2**):

- i. Cumulative Header
- ii. Cumulative Body (Results)

Click these links to
navigate through the
entire series of reports



CBC (3 months ago)					
CBC Cumulative << Show Newer Show Older >>					
<input type="checkbox"/>	Number	3	2	1	Ref. Range (Units)
<input type="checkbox"/>	Collected	16-Feb-12 11:52	14-Dec-08 16:17	10-Nov-08 10:48	
<input type="checkbox"/>	Source	¹ Healt...	² Healt...	³ Healt...	
<input type="checkbox"/>	LEUKOCYTES	^a 7.0	⁺ * 4.5	⁺ * 4.1	4.8-10.8 (10 ⁹ /L)
<input type="checkbox"/>	ERYTHROCYTES	5.00	5.00	5.1	4.2-5.4 (10 ¹² /L)
<input type="checkbox"/>	HAEMOGLOBIN	150	142	142	120-160 (G/L)
<input type="checkbox"/>	HEMATOCRIT	0.450	0.420	0.430	0.37-0.47

Graph No tests selected

* Abnormal ** Critically Abnormal ⁺ High ⁻ Low [?] No Interpretation ^{\$} Units or Reference Range differs

Figure 2: Cumulative View example

The cumulative view displays the following information in the **header rows** (**Figure 2**):

- a) The top of the header displays the **Report Name** and **age of the report**. The age of the report is calculated with the date from the report in the CDV tree. It appears in brackets next to the Report Title. E.g. CBC (3 months ago)
1. **Report Name:** The report title. Appears as a page header. The word "**Cumulative**" is appended to the report title to indicate it is shown in Cumulative View. E.g. **CBC Cumulative**
2. **Number:** This is the number assigned to the test in chronological order based on collection date and time, displaying the most recent result on the left. If the report status is not Final or Corrected, the relevant cell is highlighted in light orange, and the number and status code of the report are displayed in dark orange font. If it is displayed as a dash "-" instead of a sequence number, it means that the result does not belong to that test, but it is part of the series to be displayed in the cumulative view. This row contains a checkbox for selecting all the tests to show on the **Graph** panel.

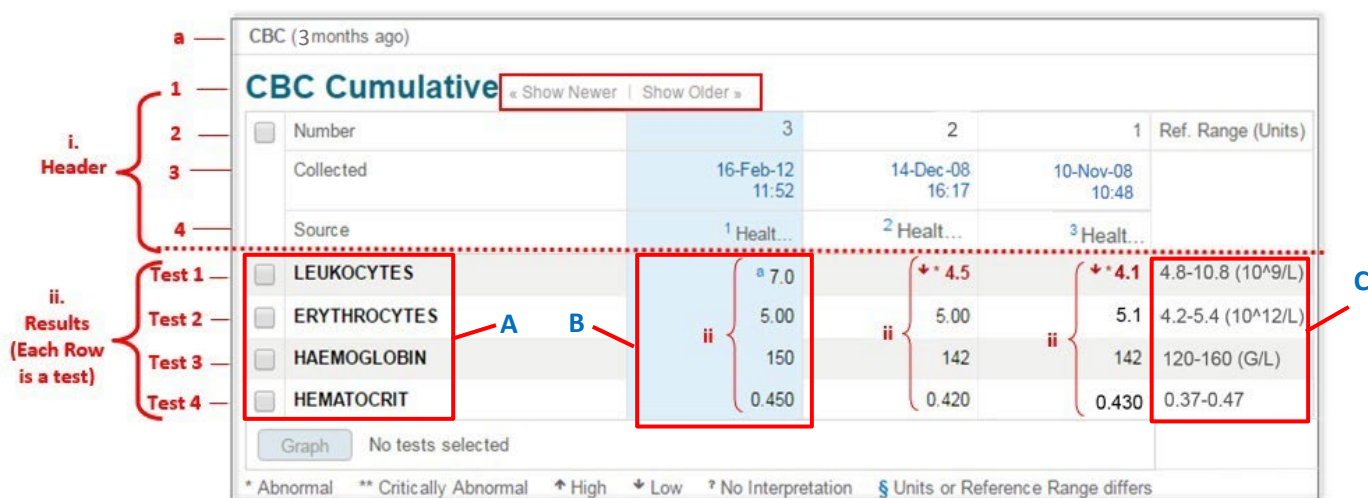
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3. **Collected:** The date and time of collection by the laboratory. This header value may be hovered over to view more collection details (see section [Cumulative View: Collection Details Hover](#)) and may be clicked on to display the individual report in the single-result view.

E.g. 15-Feb-11

10:22 (time is displayed in military time)

4. **Source:** The site/ source associated with the result. The Source description is truncated to display the first five characters, followed by ellipses (...). E.g. Health... The header can be hovered-over to view the complete name (see section [Cumulative View: Collection Details Hover](#)). In addition, the source may have a numeric indicator preceding it, such as 1, 2, 3,... This indicates that a report-level comment exists for the report and may be viewed in the hover over the collection details hover (**Figure 2**).



The results table contains the name of each test and its result value for every instance of collection. Each test is displayed in a row. The cumulative view displays the following information in the **results section** for each test (**Figure 2**):

- A. **Test name:** Long Report Name, or if not valued, it will appear in the test description.

E.g. LEUKOCYTES.


Next to the test name there is a checkbox for selecting the test to show on the **Graph** panel. For more details on working with graphs, see section [Cumulative View: Graphing Results](#).

- B. **Result Value:** The test result value. A dash is displayed if there is no result value for the test. If the test has been cancelled and a test result value exists in the system, the word "Cancelled" is displayed, and the actual test result value is not shown.

E.g. **↓* 4.5**. See section [Cumulative View: Header and Result Value Formatting](#) for more details about Result Formatting. The result value may be hovered-over to view additional result information from the Cumulative View. For more details, see section [Cumulative View: Result Details Hover](#).




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- C. **Reference Range and Units:** The reference range and units combined. The units appear in parentheses. If the tests do not have a reference range or units associated, dashes are displayed instead. **E.g.** 4.8-10.8(10⁹/L).

In addition, beneath the cumulative table, a  button is displayed that may be used to graph results. See section [Cumulative View: Graphing Results](#) for details on working with graphs.

1.3. Cumulative View: Header and Results Section Value Formatting

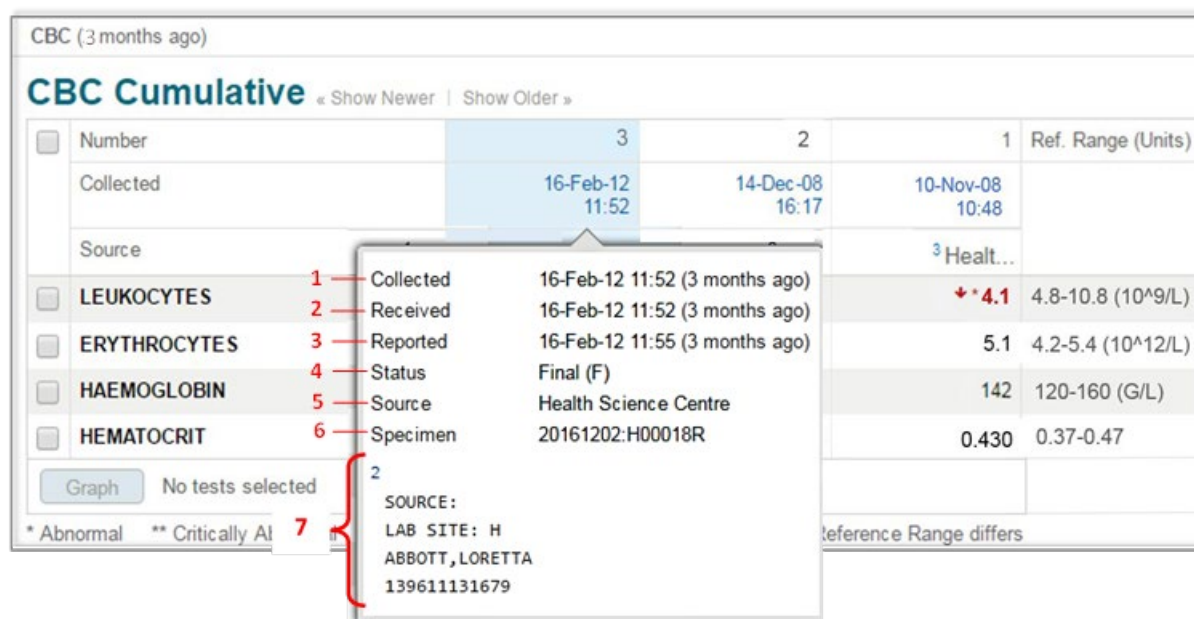
When test result values are displayed in the Cumulative View, the following formatting rules are used to indicate extra information about the result to the user. The table below describes the formats used for result values in the cumulative view header and result sections respectively.

Cumulative View Header & Result Display Format		
Section	Display Format	Description
HEADER		If the report status is not Final or Corrected, the relevant cell is highlighted in dark orange, and the sequence number and status code of the report are displayed in dark orange coloured font. An "X" in brackets means the report was cancelled . A "P" in brackets means the report is pending . A "Z" in brackets means the report was retracted .
		
		
	-	If there is a dash "-" instead of a sequence number, it means that the result does not belong to that test, but it is part of the series to be shown in the cumulative view.
	1, 2, 3...	Displayed in front of the Source to indicate that a report-level comment exists for the report. This comment may be viewed in the hover-over of the cumulative header.
RESULTS	Black	Normal result; the actual value is within the reference range.
	* Red	Red font with one asterisk. Abnormal ; the results are outside the normal range and are of clinical concern.
	** Red	Red font with two asterisks. Critically abnormal ; the results are well outside the normal range and are of great clinical concern.
	↑ Red	Red arrow pointing up (↑). The result is abnormal or critically abnormal High relative to the reference range. It appears next to the abnormal (*) or critically abnormal (**) result value.
	↓ Red	Red arrow pointing down (↓). The result is abnormal or critically abnormal Low relative to the reference range. It appears next to the abnormal (*) or critically abnormal (**) result value.
	-	Dash in the results section; the test result is not available (most likely not reported in this instance).

Cumulative View Header & Result Display Format		
Section	Display Format	Description
RESULTS	§	Displayed in front of the actual value to indicate that its unit or reference range differs across a set of results. If any of the units are null, they are considered to match any other units that are present. Units are case-sensitive; for example, mMol/L and MMOL/L would cause § to be displayed.
	a, b, c...	Displayed in front of the actual value to indicate additional result information is available (such as a result comment). The comment is displayed when the result value is hovered over in the cumulative table but is displayed inline when viewing the report in the Single Report View.

1.4. Cumulative View: Collection Details Hover

The collection details hover lets the user view additional information about the report. From the cumulative view, hover over the collected date, and below this date, more collection details will be displayed on a small screen (**Figure 3**).



The screenshot shows the 'CBC Cumulative' view. A table lists test results with columns for Number, Collected, Source, and Ref. Range (Units). A hover tooltip is displayed over the 'Collected' date '16-Feb-12 11:52'. The tooltip contains the following information:

- 1 - Collected: 16-Feb-12 11:52 (3 months ago)
- 2 - Received: 16-Feb-12 11:52 (3 months ago)
- 3 - Reported: 16-Feb-12 11:55 (3 months ago)
- 4 - Status: Final (F)
- 5 - Source: Health Science Centre
- 6 - Specimen: 20161202:H00018R
- 7 - SOURCE: LAB SITE: H ABBOTT, LORETTA 139611131679

The main table shows results for LEUKOCYTES, ERYTHROCYTES, HAEMOGLOBIN, and HEMATOCRIT. The 'Collected' column shows dates and times for each test. The 'Source' column shows the source for each test. The 'Ref. Range (Units)' column shows the reference range and units for each test.

Figure 3: Cumulative View Collection Details Hover example

The Collection Details Hover displays the following information (**Figure 3**):

- Collected:** The date and time (displayed in military time) of collection by the laboratory. **E.g.** 16-Feb-12 11:52 (3 months ago) - time is displayed in military time
- Received:** The date and time (displayed in military time) the laboratory received the specimen. **E.g.** 16-Feb-12 11:52 (3 months ago) - time is displayed in military time
- Reported:** The date and time (displayed in military time) that the results were composed into a report and released. **E.g.** 16-Feb-12 11:55 (3 months ago) - time is displayed in military time.

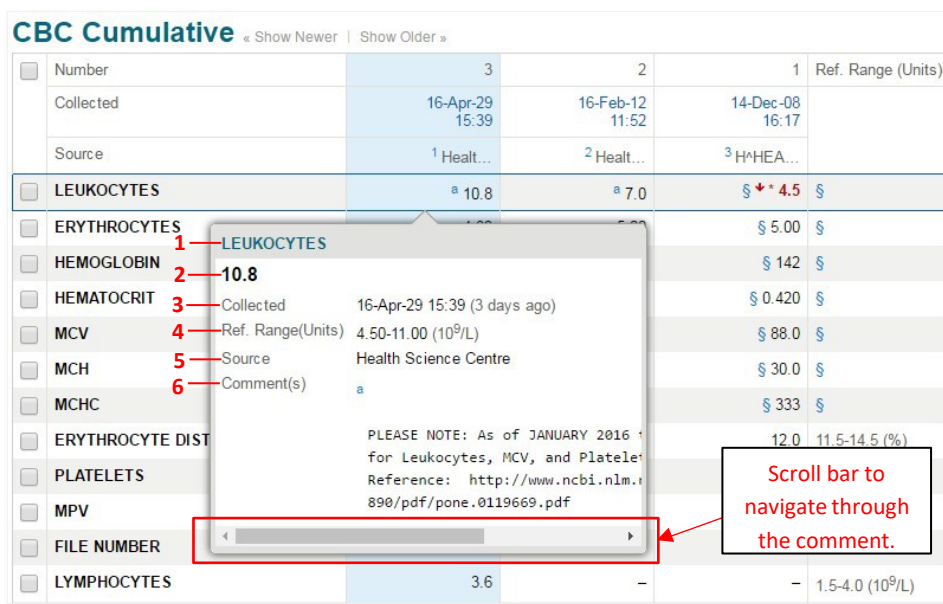
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4. **Status:** The report status description and code. **E.g.** Final (F). See the [CDV Tree Report Status Indicators and Read/Unread Reports](#) section on the **Patient Summary Tab and CDV Tree** training module for details on report Status for Laboratory reports.
5. **Source:** The site/ source associated with the result. **E.g.** Health Science Centre
6. **Specimen:** The specimen number associated with the report, assigned by the source system. **E.g.** 20161202:H000018R
7. **<Numeric label> <E.g. 2 >:** Report level comments associated with the report. Below each number, the comment is displayed.

E.g. SOURCE:
LAB SITE: H
ABBOTT, LORETTA
139611131679

1.5. Cumulative View: Result Details Hover

The results table contains the name of each test and its result value for every instance of collection. You can hover over each result to see more details about the result.



The screenshot shows a table titled "CBC Cumulative" with columns for test name, result value, and reference range. A hover tooltip is displayed over the "LEUKOCYTES" row, showing detailed information about the result. The tooltip includes a scroll bar to navigate through the comment.

Number	3	2	1	Ref. Range (Units)
Collected	16-Apr-29 15:39	16-Feb-12 11:52	14-Dec-08 16:17	
Source	¹ Healt...	² Healt...	³ H^HEA...	
LEUKOCYTES	10.8	7.0	4.5	
ERYTHROCYTES			5.00	
HEMOGLOBIN	10.8		142	
HEMATOCRIT			0.420	
MCV			88.0	
MCH			30.0	
MCHC			333	
ERYTHROCYTE DIST			12.0	11.5-14.5 (%)
PLATELETS				
MPV				
FILE NUMBER				
LYMPHOCYTES	3.6	-	-	1.5-4.0 (10 ⁹ /L)

Hover Tooltip for LEUKOCYTES:

- 1 - **Report Title:** LEUKOCYTES
- 2 - **Result value:** 10.8
- 3 - **Collected:** 16-Apr-29 15:39 (3 days ago)
- 4 - **Ref. Range(Units):** 4.50-11.00 (10⁹/L)
- 5 - **Source:** Health Science Centre
- 6 - **Comment(s):** a

PLEASE NOTE: As of JANUARY 2016, the reference range for Leukocytes, MCV, and Platelets has been updated. Reference: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4890/pdf/pone.0119669.pdf>

Scroll bar to navigate through the comment.

Figure 4: Result Details Hover example

The result details hover displays the following information (**Figure 4**):

1. **Report Title:** The report title appears as a header at the top of the hover. **E.g.** LEUKOCYTES
2. **Result value:** The test result value. The result value is displayed in **red** font if flagged as abnormal (*) or critically abnormal (**) and with a red arrow pointing up ↑ or down ↓ depending on whether it is low or high value. Otherwise, it is displayed in normal font. **E.g.** 10.8

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3. **Collected:** The date and time of collection by the laboratory. **E.g.** 16-Apr-29 15:39 (3 days ago) - time is displayed in military time.
4. **Ref. Range (Units):** The reference range and units combined. The units appear in parentheses. If the tests do not have a reference range or units associated, dashes are displayed instead. **E.g.** 4.5-11 (10⁹/L)
5. **Source:** The site/source associated with the result. **E.g.** Health Science Centre
6. **Comments:** Result-level comments associated with the result. Displayed in front of the actual value to indicate additional result information is available. Always indicated as an alphabetical label superscripted in front of the result (^a 10.8).
E.g. PLEASE NOTE: As of January 2016, the reference intervals for Leucocytes, MCV, and ... If the comment does not fit in the result details hover pop-up screen, a **scroll bar** may appear to move (right/left) to the rest of the comment.

1.6. Cumulative View: Graphing Results

Graphs plot up to 10 individual results that have been selected from the Cumulative View. Please note that **only numeric results** may be shown in the Graph View; textual results are not included and may not be selected for graphing if all the results in the series are textual.

To graph multiple numeric results:

1. From the Cumulative View, select the results to include in the graph (up to a maximum of 10) by clicking the checkbox next to the results, or select all results by clicking the checkbox in the Cumulative Header (**Figure 5**).
2. Click the "Graph" button.
3. The graphed view is displayed (**Figure 6**).

Check this box
to select all the
results (max 10)

Check this box
to select a
specific result

Graph button

TSH Cumulative « Show Newer Show Older »						
<input type="checkbox"/>	Number	6	5	4	3	2
<input type="checkbox"/>	Collected	15-Sep-30 13:28	15-Jul-31 08:30	15-Jun-30 08:00	15-May-30 08:00	12-Jan-09 11:49
<input type="checkbox"/>	Source	¹ Healt...	² Healt...	³ Healt...	⁴ Healt...	⁵ Healt...
<input type="checkbox"/>	TSH	↑* 6.700	4.200	4.200	3.900	3.900
<input type="checkbox"/>	Graph	No tests selected				

* Abnormal ** Critically Abnormal ↑ High ↓ Low ? No Interpretation § Units or Reference Range differs

Figure 5: Example of selecting results to be graphed

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After clicking the "**Graph**" button, selected tests and their results are shown in the Graph View. The Graph View consists of the following graphs (**Figure 6**):

- i. Overview Graph.
- ii. Individual Graphs.

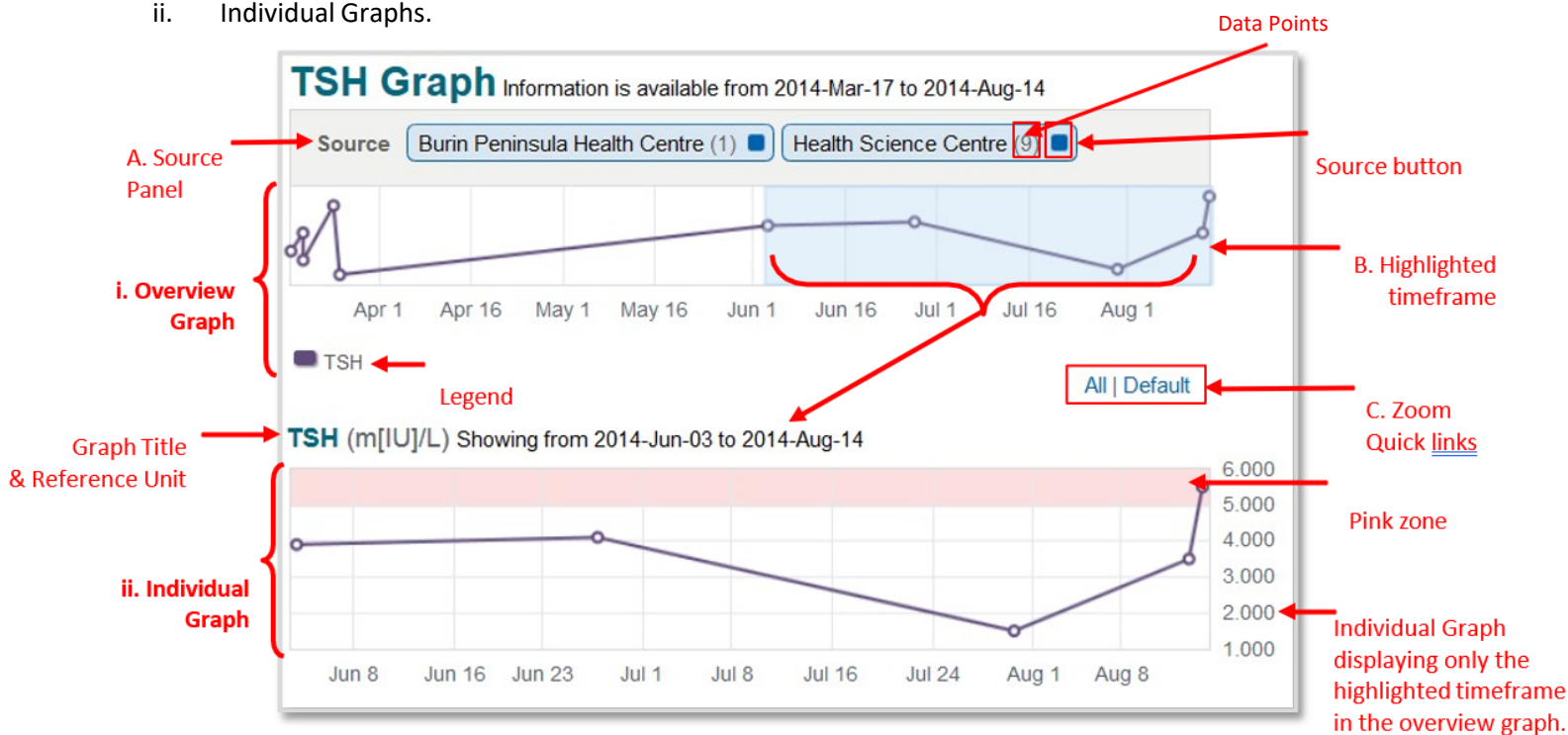


Figure 6: Graph View

- i. **The Overview graph** shows the different test results over time on a single graph, where each line represents a particular test. The legend for the line colours is displayed below the graph. It allows the user to zoom into a specific period to be displayed on the individual graphs.
- A. The **Source panel** displays a separate button for each information source, indicating how many data points on the graph came from that source. In **Figure 6**, the Overview graph includes 1 data point sourced from "**Burin Peninsula Health Centre**," and 9 data points from "**Health Science Centre**." By default, the graph displays the results from all sources. To exclude the results provided by one or more sources, click the corresponding source button on the Sources panel. Click the button again to show the data points from that source.
- B. **Highlighted Timeframe:** The mouse is used to highlight (light blue) a specific area or period on the Overview graph. This action automatically changes the zoom level for the individual graph(s) below. The individual graphs are automatically refreshed to reflect the period specified on the Overview graph.
- C. **Zoom Quick Links:** Are links to pre-configured zoom levels. The zoom quick links are below the overview graph displayed as links [All](#) or [Default](#).
 - [All](#) - Zooms all individual graphs to show all test results. The Overview graph has no selection indicator (pale blue overlay).

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- **Default** - Zooms all individual graphs to the default range to show the test results selected. The Overview graph shows the selection indicator (pale blue overlay) over the area of these results.

ii. **Individual Graph:** Each individual graph represents a test involved in the result. The graph title displays the name of the test and its corresponding reference unit, E.g. **TSH (mIU/L)**. The graph shows a data point for each result value.

The pink zone in Individual Graphs represents areas outside the corresponding reference range. If any point in the graph has a differing reference range or unit, the **§** symbol is displayed next to the graph's title. See section [Cumulative View: Header and Result Section Formatting](#) for more details about **§** symbol meaning when displayed in the results section.

Additional information may be viewed for each data point on the graph by hovering the mouse over it (**Figure 7**). The hover displays the same information as the Result Details Hover in the Cumulative View. Please see the [Cumulative View: Result Details Hover](#) section for details.



Figure 7: Individual Graph Result Detail Hover

1.7. Cumulative View: Printing the Graph View

The Graph View may be printed by selecting the **Print** link in the upper right corner of the Graph View.

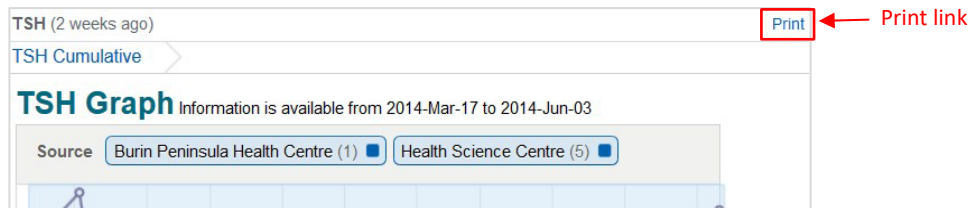


Figure 8: Graph View with Print Link

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When the Print link is clicked, the browser's built-in print dialogue box is displayed along with a preview of the graph(s) (**Figure 9**). Please note that Graph View printing uses HTML printing (the browser's print functionality) rather than a PDF output.

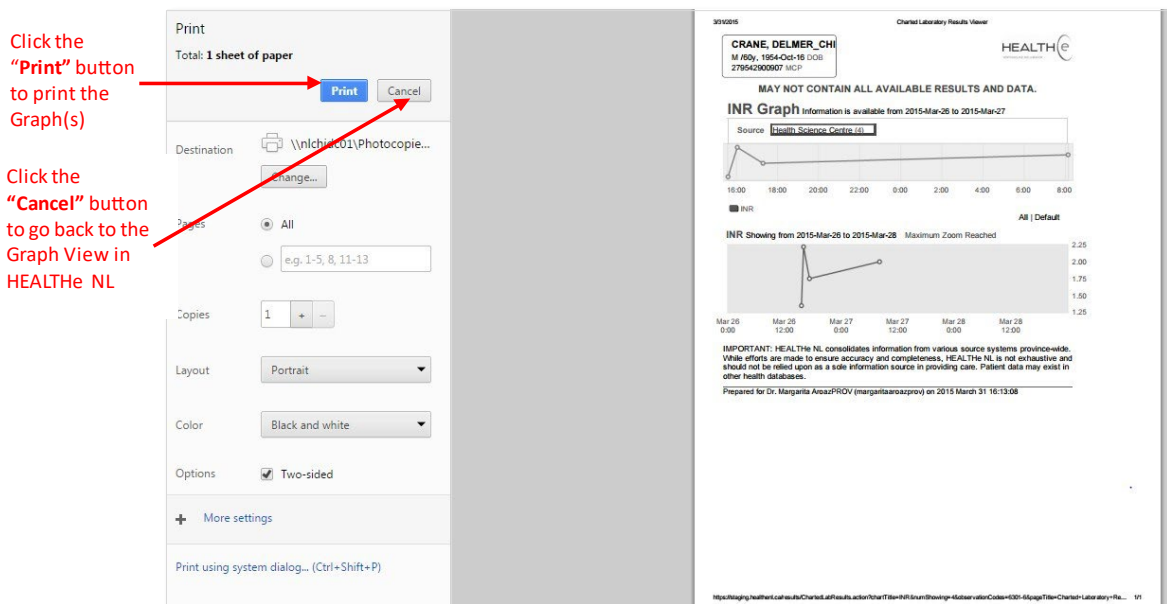


Figure 9: Browser built-in print dialogue displaying a preview of the graph(s)

Depending on the user's modification of the Graph View, not all results may be printed in a single printout. It is, therefore, recommended to print reports using the single report view. See **Figure 10** for an example of a Graph View printed output.

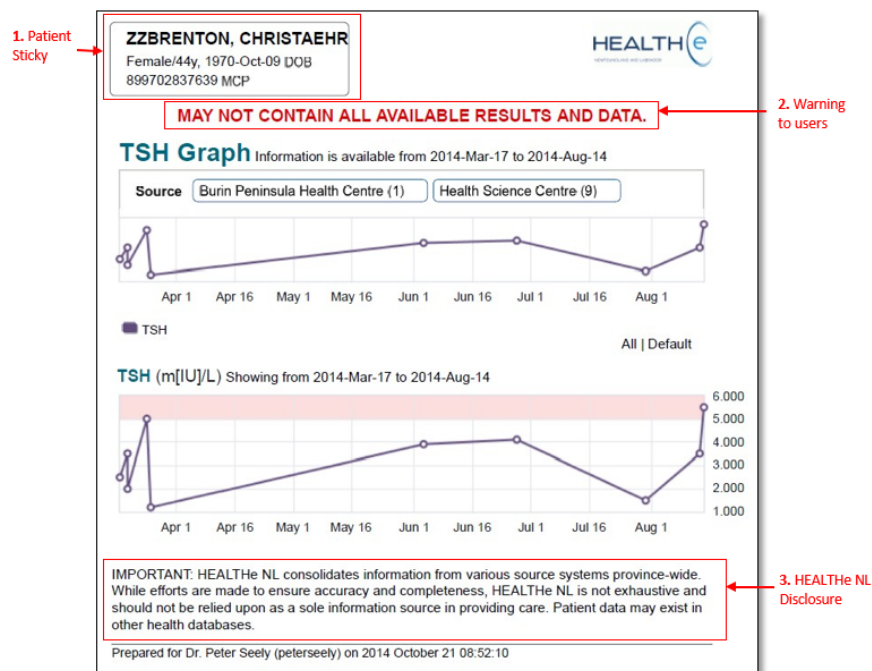


Figure 10: Graph View printed output

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Things to note about the Graph View printed presentation:

1. **Patient Sticky:** A "patient sticky" is displayed in the upper left with the patient's name, gender, age, date of birth, and MCP number to identify the patient.
2. **Warning to Users:** A warning: **"MAY NOT CONTAIN ALL AVAILABLE RESULTS AND DATA"** is displayed on the printed presentation of the Graph View to advise users about the completeness of the data.
3. **HEALTHe NL Disclosure:** THE HEALTHe NL Disclosure is displayed at the bottom of the printed presentation to warn users about the accuracy and completeness of the information.

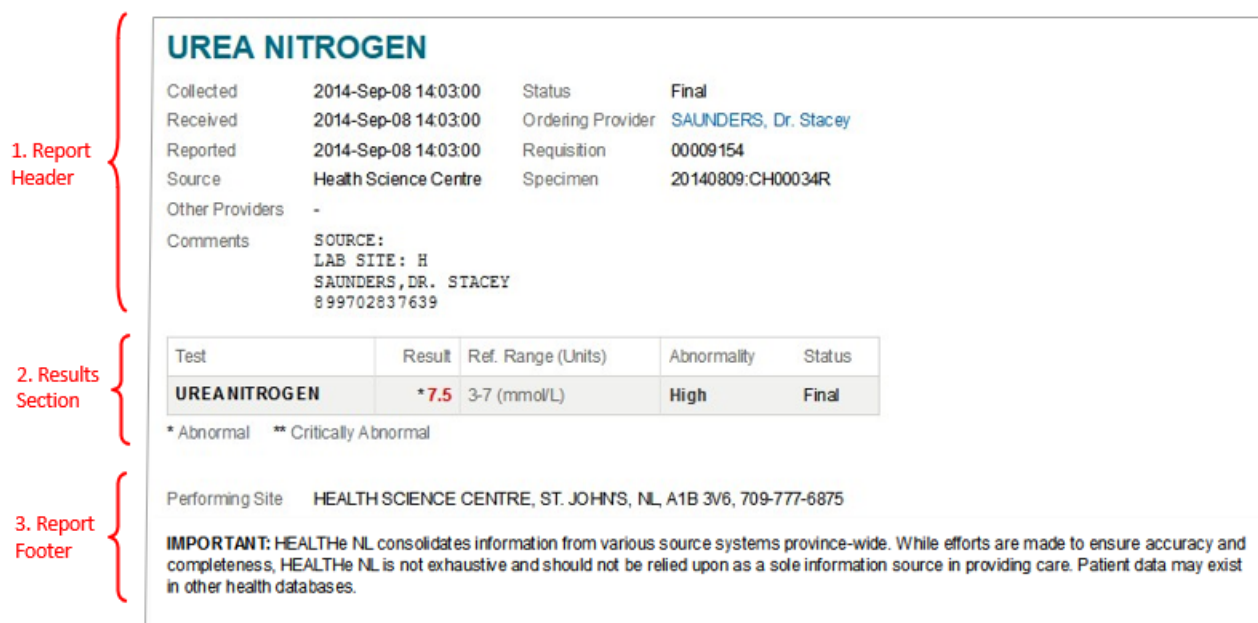
NOTE: Printing is disabled when accessing the graph from an iPad® due to the limited number of printers supported by iOS®.

Please note that certain browsers (mainly observed in Internet Explorer) may obscure certain graph elements in the printed version. This is a known issue as of April 2015 and will be resolved in a future product release. A warning stating **"MAY NOT CONTAIN ALL AVAILABLE RESULTS AND DATA"** is displayed on the printed presentation of the Graph View.

1.8. Single Report View (Blood Bank, Chemistry or Hematology reports)

Each individual General Laboratory report from Chemistry, Hematology, or Blood Bank subcategories contains a 1. Report Header; 2. Results section (test results); and 3. Report Footer (*Figure 11*).

For more details on how to open an individual report, please see section [Opening an individual report](#).



1. Report Header

UREA NITROGEN

Collected	2014-Sep-08 14:03:00	Status	Final	
Received	2014-Sep-08 14:03:00	Ordering Provider	SAUNDERS, Dr. Stacey	
Reported	2014-Sep-08 14:03:00	Requisition	00009154	
Source	Health Science Centre	Specimen	20140809:CH00034R	
Other Providers	-			
Comments	SOURCE: LAB SITE: H SAUNDERS, DR. STACEY 899702837639			

2. Results Section

Test	Result	Ref. Range (Units)	Abnormality	Status
UREA NITROGEN	*7.5	3-7 (mmol/L)	High	Final

* Abnormal ** Critically Abnormal

3. Report Footer

Performing Site HEALTH SCIENCE CENTRE, ST. JOHN'S, NL, A1B 3V6, 709-777-6875

IMPORTANT: HEALTHe NL consolidates information from various source systems province-wide. While efforts are made to ensure accuracy and completeness, HEALTHe NL is not exhaustive and should not be relied upon as a sole information source in providing care. Patient data may exist in other health databases.

Figure 11: Single Report View example (Blood Bank, Chemistry, or Hematology subcategories)

These type of reports are typically numeric results displayed in a table format but may also include textual observations.

1.8.1 Single Report View: Report Status and Result Status

The result status is displayed as the final column of the results table when viewing an individual report.

The **report statuses** below are displayed in the report header section:

Report Status	Description	CDV Tree Report Display
Final	Final results; results stored and verified.	Normal font
Pending	Results pending (applies to panels only).	Italicized font
Cancelled	No results available; Order cancelled.	Strikethrough font
Retracted	Report has been retracted and cannot be viewed.	Gray styling font

The individual test results on reports having a "Cancelled" or "Retracted" status are not displayed.

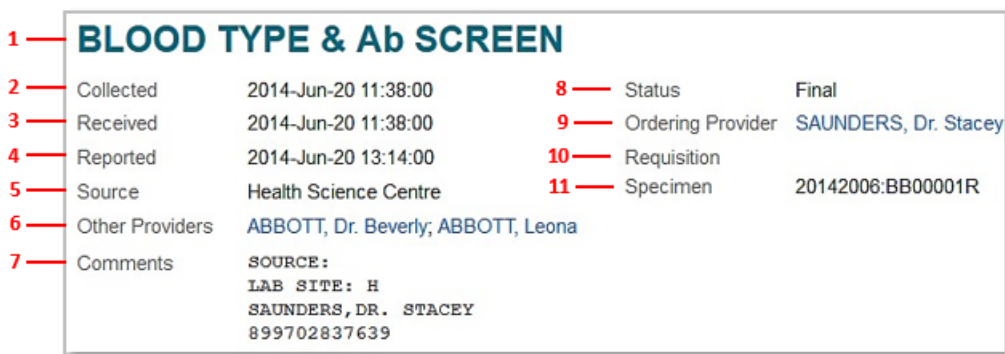
The **result status** is displayed as the final column of the results table when viewing an individual report.

Result Status	Description
Final	Final results; results stored and verified.
Pending	Test result pending (applies to panels only).
Cancelled	No results available; Test cancelled.

The result value for a cancelled test is not displayed in HEALThe NL.

1.8.2 Single Report View: Report Header

The result status is displayed as the final column of the results table when viewing an individual report.



1 BLOOD TYPE & Ab SCREEN

2 Collected 2014-Jun-20 11:38:00 8 Status Final

3 Received 2014-Jun-20 11:38:00 9 Ordering Provider SAUNDERS, Dr. Stacey

4 Reported 2014-Jun-20 13:14:00 10 Requisition 20142006:BB00001R

5 Source Health Science Centre 11 Specimen 20142006:BB00001R

6 Other Providers ABBOTT, Dr. Beverly; ABBOTT, Leona

7 Comments SOURCE:
LAB SITE: H
SAUNDERS, DR. STACEY
899702837639

Figure 12: Report Header example (Blood Bank, Chemistry, Hematology subcategories)

A Blood Bank, Chemistry or Hematology Report displays the following information in the header section (Figure 12):

- Report Title:** The report title appears as a page header at the top of the report. **E.g. BLOOD TYPE & Ab SCREEN**
- Collected:** The date and time the specimen was collected. **E.g. 2014-Jun-20 11:38:00** - time is displayed in military time.

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3. **Received:** The date and time the laboratory received the specimen. **E.g.** 2014-Jun-20 11:38:00 - time is displayed in military time.
4. **Reported:** The date and time that the results were composed into a report and released. **E.g.** 2014-Jun-20 13:14:00 - time is displayed in military time.
5. **Source:** The site/source associated with the result. **E.g.** Health Science Centre.
6. **Other Providers:** The names of providers associated with the report. When no Other Providers exist for the report, a dash is displayed instead to indicate no value.

Please note the Clinician name is a hyperlink to allow the user to view details on the provider in a pop-up window when clicked. **E.g.** [ABBOTT, Dr. Beverly](#)

7. **Comments:** Comments associated with the specimen or requisition of the report. Suppressed when no comments exist for the report.
E.g. SOURCE:
LAB SITE: H
SAUNDERS, DR. STACEY
899702837639
8. **Status:** The report status description. **E.g.** Final. See "[CDV Tree Report Status Indicators and Read/Unread Reports](#)" located in the **Patients Summary Tab and CDV Tree** training module for details on report Status for Laboratory reports.
9. **Ordering Provider:** The name of the clinician who ordered the report. Please note the Clinician name is a hyperlink to allow the user to view details on the provider in a pop-up window when clicked. **E.g.** [SAUNDERS, Dr. Stacey](#)
10. **Requisition:** The unique number identifying with the requisition in the source system.
11. **Specimen:** The unique identifier for the specimen in the source system. **E.g.** 20142006:BB00001R

1.8.3 Single Report View: Results Screen

To open a single result from Blood Bank, Chemistry or Hematology, open the cumulative view and click on the Collected date ([Figure 13](#)). The test result is displayed as a single value ([Figure 14](#)) or on a table ([Figure 15](#)) if set up as a panel in Meditech. If the test result displayed as a single value has other tests performed in the same specimen, it will appear as a [Related Reports](#) link on the footer of the report listing the other tests available ([Figure 14](#)). See the [Single Report View: Related Reports](#) section to learn more about viewing Related Reports.

CALCIUM (5 weeks ago)

Click on the collected date to open the report.

CALCIUM Cumulative « Show Newer | Show Older »

	Number	6	5	4	3	2	Ref. Range (Units)
<input type="checkbox"/> Collected		17-May-12 15:34	17-May-12 15:28	17-May-10 15:42	17-May-10 14:58	17-May-09 15:02	
Source		Weste...	Centr...	¹ Healt...	² Healt...	³ Healt...	
<input type="checkbox"/> CALCIUM		§ 2.25	2.15	2.15	↑ ** 50.00	↑ ** 50.00	§

Graph No tests selected

* Abnormal ** Critically Abnormal ↑ High ↓ Low ? No Interpretation § Units or Reference Range differs

Figure 13: Test result example displaying the cumulative view for Calcium (Chemistry category)

CALCIUM Cumulative

CALCIUM

Collected	2017-May-12 15:34:00	Status	Final
Received	2017-May-12 15:34:00	Ordering Provider	KING, Roger
Reported	2017-May-12 15:34:00	Requisition	00005297
Source	Western Memorial Hospital	Specimen	20171205:CH00017R
Other Providers	OBEID, Issam		

Test	Result	Ref. Range (Units)	Abnormality	Status
CALCIUM	2.25	2.25-2.75 (mmol/L)		Final

* Abnormal ** Critically Abnormal ↑ High ↓ Low ? No Interpretation

Performing Site WESTERN MEMORIAL HOSPITAL, 1 Brookfield Avenue Corner Brook, NL

Related Reports ▼

ALBUMIN (2017-May-12 15:34:00)

Click this arrow to expand and see all the tests completed on the specimen.

Figure 14: Calcium report example displaying single test result for Calcium (Chemistry category)



RENAL FUNCTION PANEL					
1	2	3	4	5	
Test	Result	Ref. Range (Units)	Abnormality	Status	
Test 1 — UREA NITROGEN	4.0	3-7 (mmol/L)		Final	
Test 2 — SODIUM	139	135-145 (mmol/L)		Final	
Test 3 — POTASSIUM	4.4	3.5-5.0 (mmol/L)		Final	
Test 4 — CHLORIDE	102	95-110 (mmol/L)		Final	
Test 5 — CO2	* 15	23-31 (mmol/L)	Low	Final	
Comment associated to Test 5 (CO2)					
Test 6 — GLUCOSE	* 12.6	3.5-7.8 (mmol/L)	High	Final	
Please Note change in reference ranges since February 1, 2014					
Casual serum/plasma glucose levels > or = 11.0 mmol/L with symptoms of polydipsia, polyuria, and unexplained weight loss is consistent with diabetes mellitus. Confirmatory laboratory glucose testing (either by fasting serum/plasma glucose, a casual serum/plasma glucose or a 2h serum/plasma glucose in a 75g OGTT) must be done on another day in the absence of unequivocal hyperglycemia accompanied by acute metabolic decompensation					
Test 7 — CREATININE	* 120	37.0-91.0 (umol/L)	High	Final	
Test 8 — ASPARTATE AMINOTRANSFERASE	* 350	25-300 (U/L)	High	Final	
Test 9 — ALANINE AMINOTRANSFERASE	324	55-555 (U/L)		Final	
Test 10 — ALKALINE PHOSPHATASE	118	40-150 (U/L)		Final	
Test 11 — BILIRUBIN;TOTAL	* 39	3.4-20.5 (umol/L)	High	Final	
Test 12 — URATE	* 505	150-350 (umol/L)	High	Final	
Test 13 — PHOSPHATE	** 3.11	0.74-1.52 (mmol/L)	Critical high	Final	
*** CRITICAL RESULT, ACTION REQUIRED ***					
LOCATION CALLED: FLOOR VERBAL REPORT READ BACK BY: DOC TELEPHONED BY: TURDO DATE 290315 TIME: 2155					
Test 14 — CALCIUM	* 2.00	2.15-2.62 (mmol/L)	Low	Final	
Test 15 — PROTEIN	* 59	80-85 (g/L)	Low	Final	
Test 16 — ALBUMIN	* 25	32-48 (g/L)	Low	Final	
* Abnormal ** Critically Abnormal					

Figure 15: Test results example displaying a Renal Function Panel from the Chemistry category

Each column of the results table displays the following information (Figure 15):

- Test:** The test name in bolded font. Each row corresponds to an individual test. E.g. **UREA NITROGEN**
- Result:** The test result value. If the test has been cancelled, the word "Cancelled" is displayed, and the actual test result value is not shown. E.g. **4.0**; * **15**; ** **3.11**.
See section [Cumulative View: Header and Result Value Formatting](#) for details on result format descriptions.
- Ref. Range (Units):** The tests' reported reference range and units displayed in a combined format, with the units displayed in parentheses following the reference range. E.g. 3-7 (mmol/L)
- Abnormality:** If a result is flagged as abnormal, this field displays a description of the abnormality level in a bold font. E.g. Low, High, etc.
- Status:** The report status description. E.g. Final. See ["CDV Tree Report Status Indicators and Read/Unread Reports"](#) located on the **Patients Summary Tab** and **CDV Tree** training module for details on report Status for Laboratory reports.

In addition, any **comments** associated with an individual result are displayed inline, immediately below the result in the result table, in a fixed font (Figure 15).

[Return to menu](#)

1.8.4 Single Report View: Related Reports (found in the Report Footer)

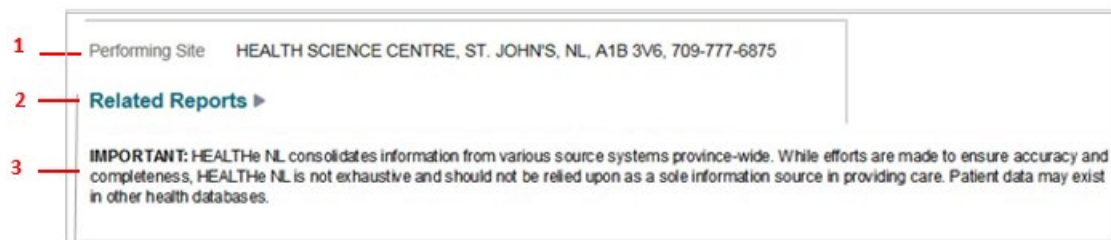


Figure 16: Report Footer example (Blood Bank, Chemistry and Hematology reports)

A Laboratory report displays the following information in the footer section (**Figure 16**):

- 1. Performing Site:** Displays the name, address and telephone number of performing sites for all of the tests displayed. **E.g.** HEALTH SCIENCES CENTRE, ST. JOHN'S, NL, A1B-3V6, 709-777-6875
If more than one site performed tests in the report, they are all listed here. No indication is given for which site performed which specific test.
- 2. Related Reports:** This link allows you to access other tests completed on the specimen without returning to the CDV Tree. To see these reports, click the arrow next to the **Related Reports** name, and all tests will be listed (**Figure 17**). If the link is not present, additional tests were not performed on the specimen. To see an example of a report with Related Reports, see **Figure 18 & Figure 19**.



Figure 17: Related Reports link

- 3. HEALTHe NL Disclosure:** THE HEALTHe NL Disclosure is displayed at the bottom of the report to warn users about the accuracy and completeness of the information.



SODIUM (2 weeks ago)

SODIUM Cumulative

SODIUM

Collected	2016-Jan-14 10:55:00	Status	Final
Received	2016-Jan-14 10:55:00	Ordering Provider	TUTTLE, Dr. Peggy
Reported	2016-Jan-14 10:56:00	Requisition	00026417
Source	Health Science Centre	Specimen	20161401:CH00007R
Other Providers	-		
Comments	SOURCE: LAB SITE: H TUTTLE, DR. PEGGY F 209550674581		

Test	Result	Ref. Range (Units)	Abnormality	Status
SODIUM	140	135-145 (mmol/L)		Final

* Abnormal ** Critically Abnormal

Performing Site HEALTH SCIENCE CENTRE, ST. JOHN'S, NL, A1B 3V6, 709-777-6875

Related Reports

IMPORTANT: HEALTHe NL consolidates information from various source systems province-wide. While efforts are made to ensure accuracy and completeness, HEALTHe NL is not exhaustive and should not be relied upon as a sole information source in providing care. Patient data may exist in other health databases.

Click this arrow to expand and see all the tests completed on the specimen.

Figure 18: Example of a report with Related Reports link

SODIUM (2 weeks ago)

SODIUM Cumulative

SODIUM

Collected	2016-Jan-14 10:55:00	Status	Final
Received	2016-Jan-14 10:55:00	Ordering Provider	TUTTLE, Dr. Peggy
Reported	2016-Jan-14 10:56:00	Requisition	00026417
Source	Health Science Centre	Specimen	20161401:CH00007R
Other Providers	-		
Comments	SOURCE: LAB SITE: H TUTTLE, DR. PEGGY F 209550674581		

Test	Result	Ref. Range (Units)	Abnormality	Status
SODIUM	140	135-145 (mmol/L)		Final

* Abnormal ** Critically Abnormal

Performing Site HEALTH SCIENCE CENTRE, ST. JOHN'S, NL, A1B 3V6, 709-777-6875

Related Reports

LIPID PANEL (FASTING) (2016-Jan-14 10:55:00)

AMYLASE (2016-Jan-14 10:55:00)

CO2 (2016-Jan-14 10:55:00)

CHLORIDE (2016-Jan-14 10:55:00)

POTASSIUM (2016-Jan-14 10:55:00)

IMPORTANT: HEALTHe NL consolidates information from various source systems province-wide. While efforts are made to ensure accuracy and completeness, HEALTHe NL is not exhaustive and should not be relied upon as a sole information source in providing care. Patient data may exist in other health databases.

To access the report, click on any name display.

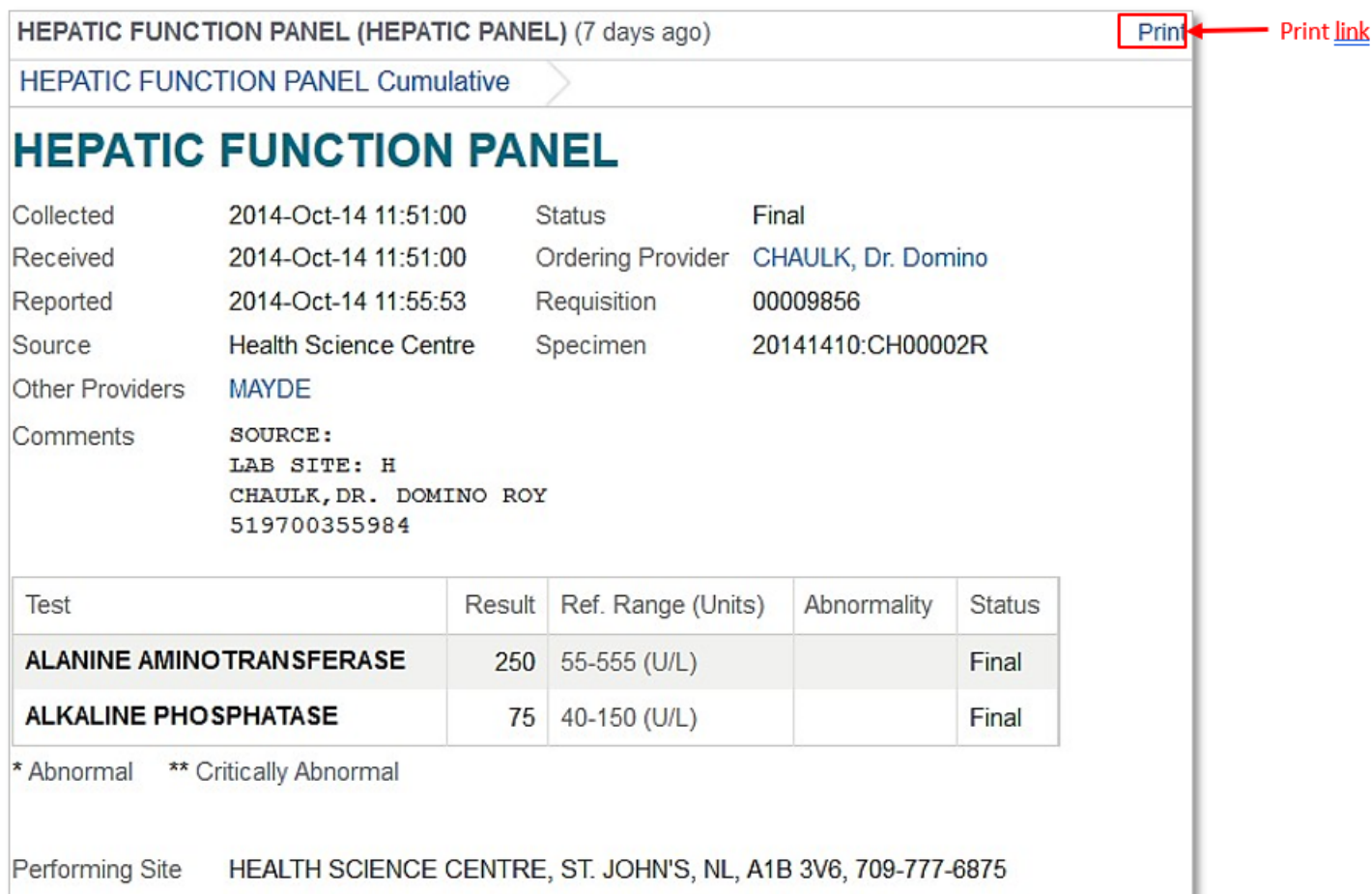
These are all the reports available for the specimen.

Figure 19: Example of a report with Related Reports link

[Return to menu](#)

1.8.5 Single Report View: Printing

A single report is printable via the [Print](#) link in the upper right of the page when viewing a report (**Figure 20**).



HEPATIC FUNCTION PANEL (HEPATIC PANEL) (7 days ago) [Print](#) Print [link](#)

HEPATIC FUNCTION PANEL Cumulative

HEPATIC FUNCTION PANEL

Collected	2014-Oct-14 11:51:00	Status	Final
Received	2014-Oct-14 11:51:00	Ordering Provider	CHAULK, Dr. Domino
Reported	2014-Oct-14 11:55:53	Requisition	00009856
Source	Health Science Centre	Specimen	20141410:CH00002R
Other Providers	MAYDE		
Comments	SOURCE: LAB SITE: H CHAULK, DR. DOMINO ROY 519700355984		

Test	Result	Ref. Range (Units)	Abnormality	Status
ALANINE AMINOTRANSFERASE	250	55-555 (U/L)		Final
ALKALINE PHOSPHATASE	75	40-150 (U/L)		Final

* Abnormal ** Critically Abnormal

Performing Site HEALTH SCIENCE CENTRE, ST. JOHN'S, NL, A1B 3V6, 709-777-6875

Figure 20: Single Report with Print link

When the [Print](#) link is clicked, a PDF output of the current report is displayed in a new window (**Figure 21**).

Report Title

Version description of the report

The header incorporates patient identity with an HCN (if available), Gender, Name, and Date of Birth.

Please note, header and footer are included on every page of the printed output.

Note that the printed output does not include colouring for abnormal or critical results.

Source description

HEALTHe NL Disclosure

PDF popup toolbar

Hovering over the print window floats the PDF popup toolbar within the window (depending on client PDF plug-in installed).

The printed output includes the complete data set (i.e. if there is more than one page of results, the output includes all pages, not just the page on screen when launched).

Latest Version: **HEPATIC FUNCTION PANEL** Health Science Centre

HCN	519700355984	Patient Name	ZZBLACKMORE, WENDYEHR
Sex	F	Date Of Birth	1970-Feb-04
Collected	2014-Oct-14 11:51:00	Status	Final
Received	2014-Oct-14 11:51:00	Ordering Provider	CHAULK, Dr. Domino
Reported	2014-Oct-14 11:55:53	Requisition	00009856
Source	Health Science Centre	Specimen	20141410:CH00002R
Other Providers	MAYDE		

Comments

SOURCE:
LAB SITE: H
CHAULK, DR. DOMINO ROY
519700355984

Test Name	Result	Ref. Range (Units)	Abnormality	Status
ALANINE AMINOTRANSFERASE	250	55-555 (U/L)		Final
ALKALINE PHOSPHATASE	75	40-150 (U/L)		Final

Additional Information
Performing Site HEALTH SCIENCE CENTRE, ST. JOHN'S, NL, A1B 3V6, 709-777-6875

IMPORTANT: HEALTHe NL consolidates information from various source systems province-wide. While efforts are made to ensure accuracy and completeness, HEALTHe NL is not exhaustive and should not be relied upon as a sole information source in providing care. Patient data may exist in other health databases.

Prepared for Dr. Peter Seely (peterseely) on 2014 October 21 11:22:07

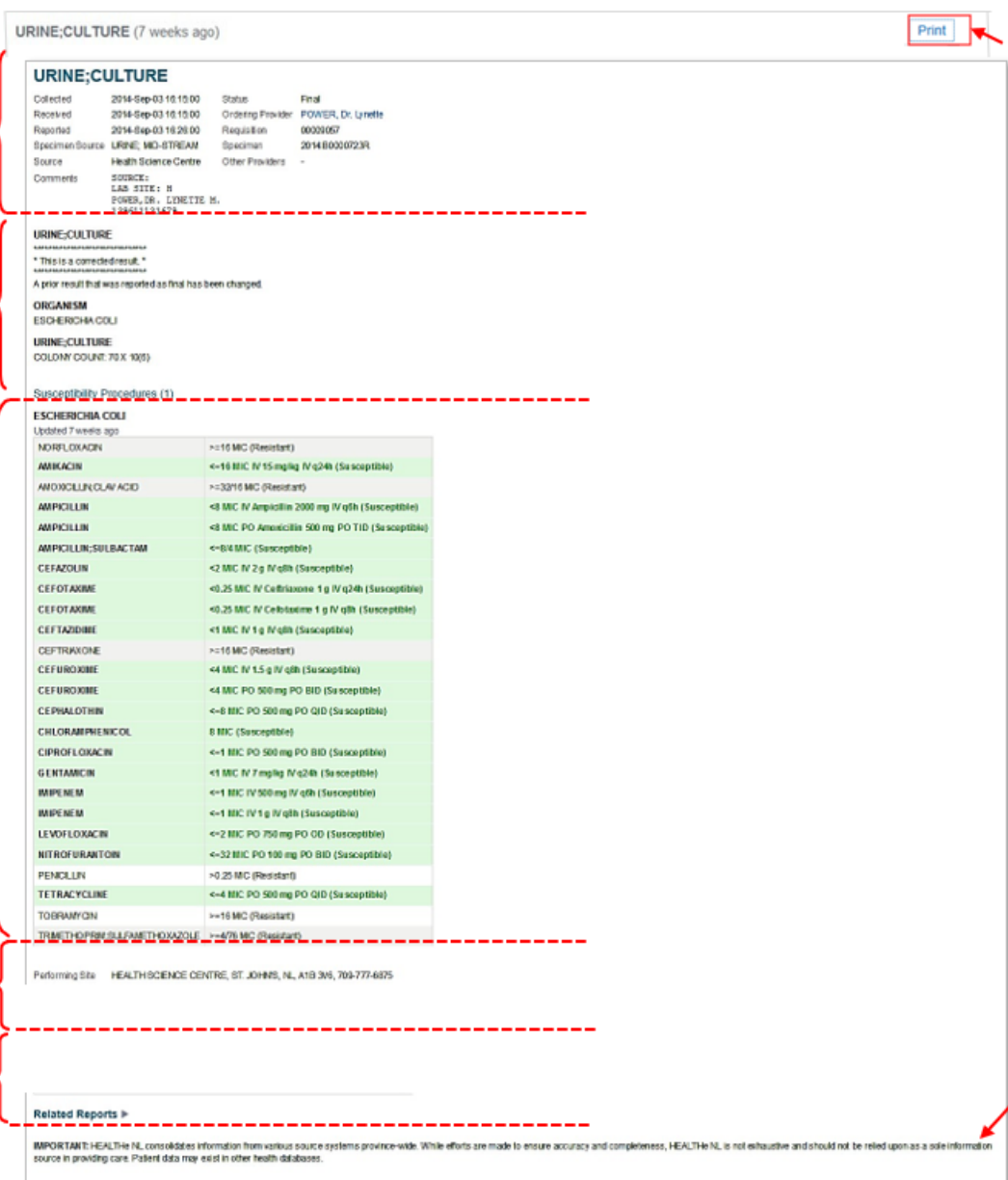
Page 1 of 1

Figure 21: PDF Output displaying Preview of the Report

NOTE: Printing is disabled when accessing the report from an iPad® due to the limited number of printers supported by iOS®.

2. Microbiology Reports

Microbiology reports are textual reports. When a user clicks a Microbiology report link in the CDV Tree, the report is displayed in the Report View (*Figure 22*).



1. Report Header

URINE;CULTURE (7 weeks ago)

URINE;CULTURE

Collected	2014-Sep-03 16:15:00	Status	Final
Received	2014-Sep-03 16:15:00	Ordering Provider	POWER, Dr. Lynette
Reported	2014-Sep-03 16:26:00	Requisition	00030057
Specimen Source	URINE; MID-STREAM	Specimen	2014E000023R
Source	Health Science Centre	Other Providers	-
Comments	SOURCE: LAB SITE: H POWER, DR. LYNETTE H. 201409031615		

2. Results Section

URINE;CULTURE

* This is a corrected result. *

A prior result that was reported as final has been changed.

ORGANISM

ESCHERICHIA COLI

URINE;CULTURE

COLD/MY COUNT: 70 X 10(5)

3. Susceptibility Results Section

Susceptibility Procedures (1)

ESCHERICHIA COLI

Updated 7 weeks ago

NORFLOXACIN	>=16 MIC (Resistant)
AMIKACIN	<=16 MIC IV 15-mg/kg IV q24h (Susceptible)
AMOXICILLIN/CLAV ACID	>=32/16 MIC (Resistant)
AMPCILLIN	<8 MIC IV Ampicillin 2000 mg IV q6h (Susceptible)
AMPCILLIN	<8 MIC PO Amoxicillin 500 mg PO TID (Susceptible)
AMPCILLIN/SULBACTAM	<=8 MIC (Susceptible)
CEFAZOLIN	<2 MIC IV 2 g IV q6h (Susceptible)
CEFOTAXIME	<0.25 MIC IV Ceftriaxone 1 g IV q24h (Susceptible)
CEFOTAXIME	<0.25 MIC IV Ceftriaxone 1 g IV q6h (Susceptible)
CEFTAZIDIME	<1 MIC IV 1 g IV q6h (Susceptible)
CEFTRAXONE	>=16 MIC (Resistant)
CEFUROXIME	<4 MIC IV 1.5 g IV q6h (Susceptible)
CEFUROXIME	<4 MIC PO 500 mg PO BID (Susceptible)
CIPROFLOXACIN	<=8 MIC PO 500 mg PO BID (Susceptible)
CHLORAMPHENICOL	8 MIC (Susceptible)
CIPROFLOXACIN	<=1 MIC PO 500 mg PO BID (Susceptible)
GENTAMICIN	<1 MIC IV 7 mg/kg IV q24h (Susceptible)
IMPENEM	<=1 MIC IV 500 mg IV q6h (Susceptible)
IMPENEM	<=1 MIC IV 1 g IV q6h (Susceptible)
LEVOFLOXACIN	<=2 MIC PO 750 mg PO QD (Susceptible)
NITROFURANTOIN	<=32 MIC PO 100 mg PO BID (Susceptible)
PENICILLIN	>=0.25 MIC (Resistant)
TETRACYCLINE	<=4 MIC PO 500 mg PO QID (Susceptible)
TOBRAMYCN	>=16 MIC (Resistant)
TRIMETHOPRIM/SULFAMETHOXAZOLE	>=4/76 MIC (Resistant)

4. Report Footer

Performing Site: HEALTHSCIENCE CENTRE, ST. JOHN'S, NL, A1B 3X9, 709-777-6825

5. Related Reports

Related Reports >

IMPORTANT: HEALTHe NL consolidates information from various source systems province-wide. While efforts are made to ensure accuracy and completeness, HEALTHe NL is not exhaustive and should not be relied upon as a sole information source in providing care. Patient data may exist in other health databases.

HEALTHe NL Disclosure

Figure 22: Microbiology Report example

2.1. Microbiology Reports: Report Header

1	URINE; CULTURE		
2	Collected	2014-Sep-03 16:15:00	8 — Status Final
3	Received	2014-Sep-03 16:15:00	9 — Ordering Provider POWER, Dr. Lynette
4	Reported	2014-Sep-03 16:26:00	10 — Requisition 00009057
5	Specimen Source	URINE; MID-STREAM	11 — Specimen 2014:B0000723R
6	Source	Health Science Centre	12 — Other Providers -
7	Comments	SOURCE: LAB SITE: H POWER, DR. LYNETTE M. 139611131679	

Figure 23: Microbiology Report Header example

A Microbiology report displays the following information in the header section (*Figure 23*):

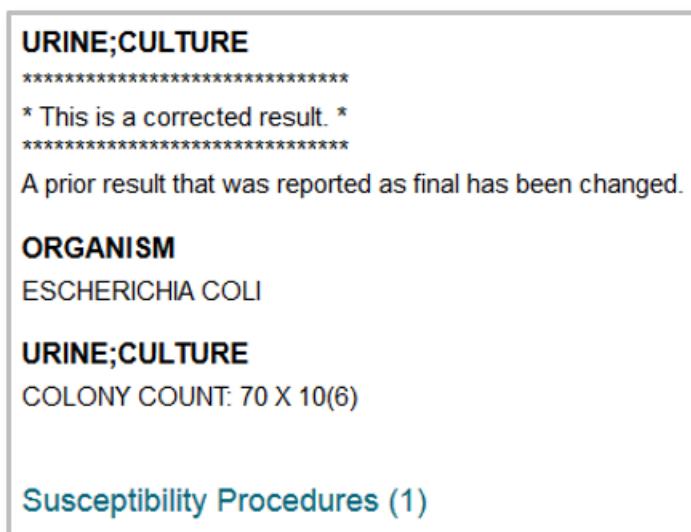
- Report Title:** The report name appears as a page header at the top of the report. **E.g.** URINE; CULTURE
- Collected:** The date and time the specimen was collected. **E.g.** 2014-Sep-03 16:15:00 - time is displayed in military time.
- Received:** The date and time the laboratory received the specimen. **E.g.** 2014-Sep-03 16:15:00 - time is displayed in military time.
- Reported:** The date and time that the results were composed into a report and released. **E.g.** 2014-Sep-03 16:15:00 - time is displayed in military time-
- Specimen Source:** The description of the specimen source. **E.g.** URINE; MID-STREAM
- Source:** The site associated with the result. **E.g.** Health Science Centre
- Comments:** Comments associated with the report. Suppressed when no comments exist for the report.
E.g. SOURCE:
LAB SITE: H
POWER, DR. LYNETTE M.
139611131679
- Status:** The report status description. **E.g.** Final. See [Microbiology Reports: Report Status](#) for details on report Status for Microbiology reports.
- Ordering Provider:** The name of the clinician who ordered the report. Please note the Clinician name is a hyperlink to allow the user to view details on the provider in a pop-up window when clicked. **E.g.** [POWER, Dr. Lynette](#)
- Requisition:** The unique number identifying with the requisition in the source system. **E.g.** 00009057
- Specimen:** The unique identifier for the specimen in the source system. **E.g.** 2014:B0000723R
- Other Providers:** The names of providers associated with the report. Please note the Clinician name is a hyperlink to allow the user to view details on the provider in a pop-up window when clicked. **E.g.** [ABBOTT, Dr. Beverly](#)

When no Other Providers exist for the report, a dash is displayed instead to indicate no value.

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2.2. Microbiology Reports: Results Section

The Results section displays the report's textual observations. These textual observations may be preceded by section headings in bold font ([Figure 24](#)). Please note the textual observations are displayed as stored, with the exception of "GRAM STAIN" report observations, where certain leading characters are suppressed for display.



} Results Section with Bold section heading with textual observation

Figure 24: Microbiology Parent Results Panel

Individual observation statuses are not displayed on the Microbiology reports.

Following the observations, the heading "**Susceptibility Procedures (n)**" is displayed. This is a count of any child susceptibility reports related to this report, which are shown in the susceptibility results section. See [Microbiology Reports: Susceptibility Results Section](#) for details.

If a report has been cancelled, the Microbiology report is not shown. Instead, the following is displayed:

Unavailable
Cancelled. Report is not available.

If a report has been retracted (pull back a report from view), the report's header is displayed, but the textual report is not shown. Instead, the following is displayed:

Unavailable
Retracted – please refer to the Meditech source system to view the report.

2.3. Microbiology Reports: Susceptibility Results Section

The Susceptibility Result Section is displayed as a panel containing in one column the Drug Name and in the other column the textual observation/ result. These textual observations indicate the susceptibility of an organism to a particular drug or drugs (**Figure 25**).

Organism Name — **ESCHERICHIA COLI**
Updated Date Age — Updated 7 weeks ago

NORFLOXACIN	>=16 MIC (Resistant)
AMIKACIN	<=16 MIC IV 15 mg/kg IV q24h (Susceptible)
AMOXICILLIN;CLAV ACID	>=32/16 MIC (Resistant)
AMPICILLIN	<8 MIC IV Ampicillin 2000 mg IV q6h (Susceptible)
AMPICILLIN	<8 MIC PO Amoxicillin 500 mg PO TID (Susceptible)
AMPICILLIN;SULBACTAM	<=8/4 MIC (Susceptible)
CEFAZOLIN	<2 MIC IV 2 g IV q8h (Susceptible)
CEFOTAXIME	<0.25 MIC IV Ceftriaxone 1 g IV q24h (Susceptible)
CEFOTAXIME	<0.25 MIC IV Cefotaxime 1 g IV q8h (Susceptible)
CEFTAZIDIME	<1 MIC IV 1 g IV q8h (Susceptible)
CEFTRIAZONE	>=16 MIC (Resistant)
CEFUROXIME	<4 MIC IV 1.5 g IV q8h (Susceptible)
CEFUROXIME	<4 MIC PO 500 mg PO BID (Susceptible)
CEPHALOTHIN	<=8 MIC PO 500 mg PO QID (Susceptible)
CHLORAMPHENICOL	8 MIC (Susceptible)
CIPROFLOXACIN	<=1 MIC PO 500 mg PO BID (Susceptible)
GENTAMICIN	<1 MIC IV 7 mg/kg IV q24h (Susceptible)
IMIPENEM	<=1 MIC IV 500 mg IV q6h (Susceptible)
IMIPENEM	<=1 MIC IV 1 g IV q8h (Susceptible)
LEVOFLOXACIN	<=2 MIC PO 750 mg PO OD (Susceptible)
NITROFURANTOIN	<=32 MIC PO 100 mg PO BID (Susceptible)

Drug Name
 Displayed in bold font if the organism was found to be susceptible to this drug; the table row background is also subtly highlighted. Otherwise, the drug name is displayed in normal font.

Textual observation/ result
 Textual Observation /Result may be comprised of route, dose and cost information, followed by the susceptibility description in parentheses.
 If the organism is susceptible to the drug, the result is coloured in green bold font; the table row background is also subtly highlighted. Otherwise, the result and row are displayed in normal font.

Figure 25: Microbiology Child Results Section (Child observations)

To view report-level comments on the related report, it must be opened individually using the Related Reports function. See the [Microbiology Reports: Related Reports](#) section for more details on how to view report-level comments.

2.4. Microbiology Reports: Report Footer

Performing Site	HEALTH SCIENCE CENTRE, ST. JOHN'S, NL, A1B 3V6, 709-777-6875
-----------------	--

Figure 26: Microbiology Report Footer

[Return to menu](#)

A Microbiology report displays the following information in the footer section (**Figure 26**):

- **Performing Site:** Displays the name, address and telephone number of performing sites for all of the tests displayed. **E.g.** HEALTH SCIENCES CENTRE, ST. JOHN'S, NL, A1B-3V6, 709-777-6875

2.5. Microbiology Reports: Related Reports

At the bottom of the Microbiology report view, there may be a section titled "**Related Reports**." When viewing a Microbiology report, if there are reports related, this section displays links to view those reports individually. Note that these reports do not appear in the CDV tree as they are "children" or part of the main Microbiology report (which does appear in the CDV tree) (**Figure 27**).

By default, the Related Reports section is collapsed. To expand the Related Results section and view the reports contained within, click the Expand icon ►. To collapse the section, click the Collapse icon ▼.

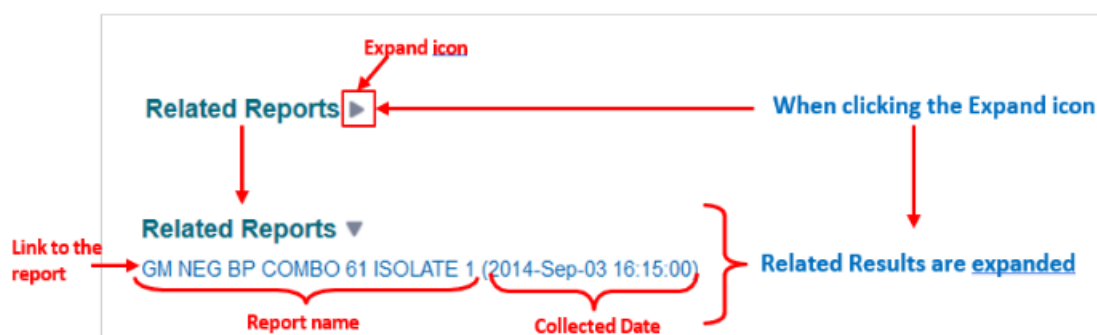


Figure 27: Related Reports section - Related results expanded and collapsed.

Each entry in the **Related Reports** section is a link to a report. When an entry in the **Related Reports** section is clicked, that report is opened in the standard Microbiology Report View to display the textual report (**Figure 28**).



URINE;CUL I URN: (4 months ago)

Print

GM NEG BP COMBO 61 ISOLATE 1

Collected2014-Sep-03 16:15:00StatusFinal

Received2014-Sep-03 16:15:00Ordering ProviderPOWER, Dr. Lynette

Reported2014-Sep-03 16:26:00Regulation0000057

Specimen SourceURINE, MD-SITREAMSpecimen201409030723R

SourceHealth Science CentreOther Providers-

Comments

Breakpoints established by Clinical and Laboratory Standards Institute 2010-124, 2014. Reported drugs are selected as ideal drug and route options. Additional results available by telephone request for tolerance, allergy, treatment failure, polymicrobial infection, uncommon organisms or outbreak investigation. Consider an infectious diseases consultation for any serious or complicated infections. Dosage suggestions based on standard indication for 70kg non-obese adult without kidney or liver failure. Consider a pharmacy consultation for appropriate dosing and drug level monitoring. Susceptible means inhibited by standard antibiotic dosage. Susceptible Dose Dependent means inhibited by maximal antibiotic dosage only. Intermediate means inhibited only in body sites which concentrate antibiotic level (ie, urine). Resistant means not inhibited. Regional Medical Microbiologist Peter Daley MD FRCPC 777-7102.

ORGANISM

ESCHERICHIA COLI

NORFLOXACIN

>=16 MIC (Resistant)

AMIKACIN

<=16 MIC IV 15 mg/kg IV q24h (Susceptible)

AMOXICILLIN-CLAV ACID

>=32/16 MIC (Resistant)

AMPCILLIN

<8 MIC IV Ampiclin 2000 mg IV q4h (Susceptible)
<8 MIC PO Amoxiclin 500 mg PO TID (Susceptible)

AMPCILLIN-SULBACTAM

<=8/4 MIC (Susceptible)

CEFAZOLIN

<2 MIC IV 2 g IV q8h (Susceptible)

CEFOTAXIME

<0.25 MIC IV Ceftriaxone 1 g IV q8h (Susceptible)
<0.25 MIC IV Ceftriaxone 1 g IV q8h (Susceptible)

CEFTAZIDIME

<1 MIC IV 1 g IV q8h (Susceptible)

CEFTRIAXONE

>=16 MIC (Resistant)

CEFURIXIME

<8 MIC IV 1.5 g IV q8h (Susceptible)
<4 MIC PO 500 mg PO BID (Susceptible)

CEPHALOTHIN

<=8 MIC PO 500 mg PO QID (Susceptible)

CHLORAMPHENICOL

8 MIC (Susceptible)

CIPROFLOXACIN

<=1 MIC PO 500 mg PO BID (Susceptible)

GENTAMICIN

<1 MIC IV 7 mg/kg IV q4h (Susceptible)

IMPENEM

<=1 MIC IV 500 mg IV q6h (Susceptible)
<=1 MIC IV 1 g IV q6h (Susceptible)

LEVOFLOXACIN

<=2 MIC PO 750 mg PO QD (Susceptible)

NITROFURANTOIN

<=32 MIC PO 100 mg PO BID (Susceptible)

PENICILLIN

>0.25 MIC (Resistant)

TETRACYCLINE

<=4 MIC PO 500 mg PO QID (Susceptible)

TOBRAMYCIN

>=16 MIC (Resistant)

TRIMETHOPRIM-SULFAMETHOXAZOLE

>=676 MIC (Resistant)

Susceptibility Procedures (0)

IMPORTANT: HEALTH e NL consolidates information from various source systems province-wide. While efforts are made to ensure accuracy and completeness, HEALTH e NL is not exhaustive and should not be relied upon as a sole information source in providing care. Patient data may exist in other health databases.

Any report-level comments received on the individual related report are displayed in the header section; whereas these are not displayed when viewing the "main Microbiology report" (only the main report's report-level comments are visible).

To print the report-level comment(s) click here.

Figure 28: Microbiology Report - Related reports

The report sections displayed when viewing an individual-related report are identical to when viewing the main Microbiology report (see the sections above). However, since this is an individual Related Report view, outside the context of the result section and susceptibility report section being viewed together, the report is displayed textually instead of as a panel.

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2.6. Microbiology Reports: Report Status

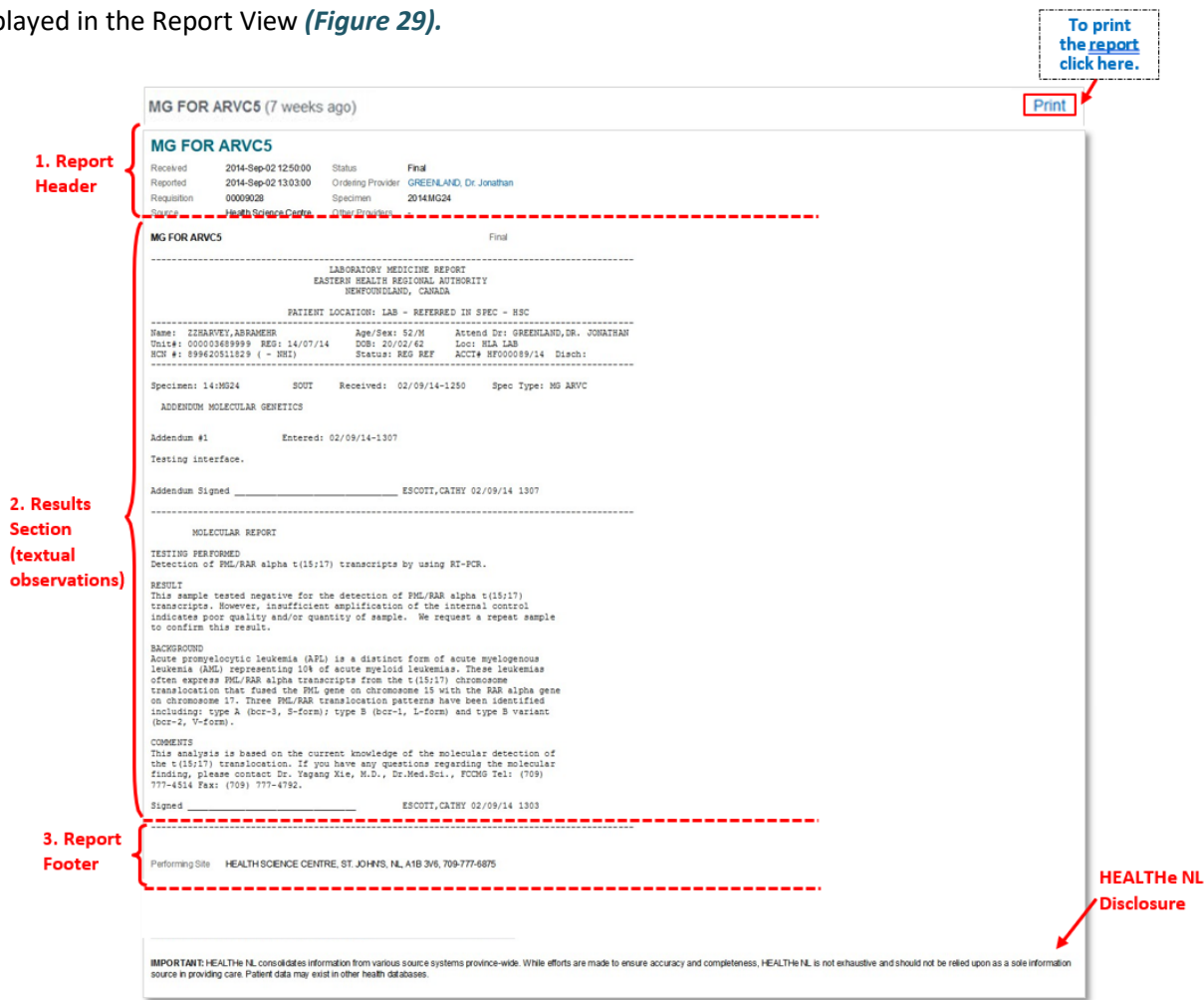
The following report statuses are valid for a Microbiology report. It is displayed in the report header section.

Report Status	Description	CDV Tree Report Display
Preliminary	Preliminary results, results are not final yet.	Italicized font
Final	Final results; results stored and verified.	Normal font
Cancelled	No results available; Order cancelled.	Strikethrough font
Retracted	Report has been retracted and cannot be viewed.	Gray styling font

The bodies of the reports with "Cancelled" or "Retracted" status are not displayed. Individual result statuses are not displayed for Microbiology results.

3. Pathology Reports

Pathology reports are textual reports. When a user clicks a Pathology report link in the CDV Tree, the report is displayed in the Report View (*Figure 29*).



The screenshot shows a pathology report titled "MG FOR ARVC5 (7 weeks ago)". The report is divided into three main sections, each annotated with a red bracket and label:

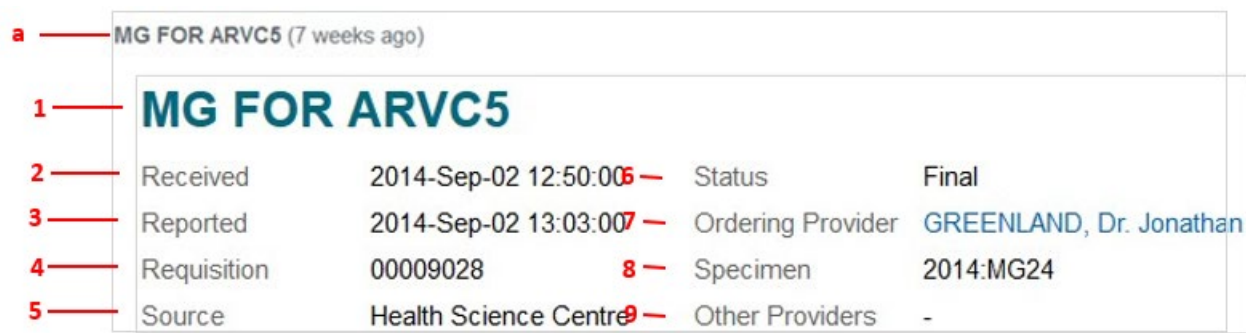
- 1. Report Header:** This section includes the report title "MG FOR ARVC5" and a table of metadata:

Received	2014-Sep-02 12:50:00	Status	Final
Reported	2014-Sep-02 13:03:00	Ordering Provider	GREENLAND, Dr. Jonathan
Requestion	00009028	Specimen	2014MG24
- 2. Results Section (textual observations):** This section contains the main body of the report, including patient information (Name: ZHARVY, ABRAMER, Age/Sex: 52/M, Attend Dr: GREENLAND, DR. JONATHAN), specimen details (Specimen: 14:MG24, SOUT, Received: 02/09/14-1250, Spec Type: MG ARVC), and the molecular report text. The text describes the detection of PML/RAR alpha t(15:17) transcripts and provides a detailed background on Acute promyelocytic leukemia (APL) and the t(15:17) translocation.
- 3. Report Footer:** This section includes the "Performing Site" (HEALTHSCIENCE CENTRE, ST. JOHN'S, NL, A1B 3V6, 709-777-6875) and a disclaimer at the bottom: "IMPORTANT: HEALTHe NL consolidates information from various source systems province-wide. While efforts are made to ensure accuracy and completeness, HEALTHe NL is not exhaustive and should not be relied upon as a sole information source in providing care. Patient data may exist in other health databases."

Additional annotations include a red "Print" button in the top right corner and a red arrow pointing to the "HEALTHe NL Disclosure" link at the bottom right.

Figure 29: Pathology Report example

3.1. Pathology Reports: Report Header



a	MG FOR ARVC5 (7 weeks ago)			
1	MG FOR ARVC5			
2	Received	2014-Sep-02 12:50:00	Status	Final
3	Reported	2014-Sep-02 13:03:00	Ordering Provider	GREENLAND, Dr. Jonathan
4	Requisition	00009028	Specimen	2014:MG24
5	Source	Health Science Centre	Other Providers	-

Figure 30: Pathology Report Header

A Pathology report displays the following information in the header section (*Figure 30*):

- a) At the top of the header is displayed the **Report Name** and **age of the report**. The age of the report is calculated with the date from the report in the CDV tree. It appears in brackets next to the Report title. **E.g. MG FOR ARVC5 (7 weeks ago)**
1. **Report Title**: The report name appears as a page header at the top of the report. **E.g., MG FOR ARVC5**
2. **Received**: The date and time the laboratory received the specimen. **E.g.,** 2014- Sep-02 12:50:00 - time is displayed in military time.
3. **Reported**: The date and time that the results were composed into a report and released. **E.g.,** 2014-Sep-02 13:03:00 - time is displayed in military time.
4. **Requisition**: The unique number identifying with the requisition in the source system. **E.g.** 00009028
5. **Source**: The site associated with the result. **E.g.,** Health Science Centre
6. **Status**: The report status description. **E.g.** Final. See [Pathology Reports: Report Status and Result Status](#).
7. **Ordering Provider**: The name of the clinician who ordered the report. Please note the Clinician name is a hyperlink to allow the user to view details on the provider in a pop-up window when clicked. **E.g.,** [GREENLAND, Dr. Jonathan](#)
8. **Specimen**: The unique identifier for the specimen in the source system. **E.g.** 2014:MG24
9. **Other Providers**: The names of providers associated with the report. Please note the Clinician name is a hyperlink to allow the user to view details on the provider in a pop-up window when clicked. **E.g.** [ABBOTT, Dr. Jonathan](#)

NOTE: When no Other Providers exist for the report, a dash "-" is displayed instead to indicate no value.

3.1.1 Pathology Reports: Results Section

The Results section displays the textual report. It includes a result status displayed on the top-right of the Results panel (*Figure 31*).

MG FOR ARVC5

Final

Result
status

LABORATORY MEDICINE REPORT
EASTERN HEALTH REGIONAL AUTHORITY
NEWFOUNDLAND, CANADA

PATIENT LOCATION: LAB - REFERRED IN SPEC - HSC

Name: ZZHARVEY, ABRAMEHR	Age/Sex: 52/M	Attend Dr: GREENLAND, DR. JONATHAN
Unit#: 000003689999 REG: 14/07/14	DOB: 20/02/62	Loc: HLA LAB
HCN #: 899620511829 (- NHI)	Status: REG REF	ACCT#: HF000089/14 Disch:

Specimen: 14:MG24 SOUT Received: 02/09/14-1250 Spec Type: MG ARVC

ADDENDUM MOLECULAR GENETICS

Addendum #1 Entered: 02/09/14-1307

Testing interface.

Addendum Signed _____ ESCOTT, CATHY 02/09/14 1307

MOLECULAR REPORT

TESTING PERFORMED
Detection of PML/RAR alpha t(15;17) transcripts by using RT-PCR.

RESULT
This sample tested negative for the detection of PML/RAR alpha t(15;17) transcripts. However, insufficient amplification of the internal control indicates poor quality and/or quantity of sample. We request a repeat sample to confirm this result.

BACKGROUND
Acute promyelocytic leukemia (APL) is a distinct form of acute myelogenous leukemia (AML) representing 10% of acute myeloid leukemias. These leukemias often express PML/RAR alpha transcripts from the t(15;17) chromosome translocation that fused the PML gene on chromosome 15 with the RAR alpha gene on chromosome 17. Three PML/RAR translocation patterns have been identified including: type A (bcr-3, S-form); type B (bcr-1, L-form) and type B variant (bcr-2, V-form).

COMMENTS
This analysis is based on the current knowledge of the molecular detection of the t(15;17) translocation. If you have any questions regarding the molecular finding, please contact Dr. Yagang Xie, M.D., Dr.Med.Sci., FCCMG Tel: (709) 777-4514 Fax: (709) 777-4792.

Signed _____ ESCOTT, CATHY 02/09/14 1303

Figure 31: Pathology Report Results section

If a report has been cancelled, the Pathology report is not shown. Instead, the following is displayed:

Unavailable
Cancelled. Report is not available.

If a report has been retracted (pull back a report from view), the report's header is displayed, but the textual report is not shown. Instead, the following is displayed:

Unavailable
Retracted – please refer to the Meditech source system to view the report.

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If a report is being corrected, the report's header is displayed, but the textual report is not shown. Instead, the following is displayed:

Unavailable
Correction in progress - report is not available.

3.1.2 Pathology Reports: Report Footer

A Pathology report displays the following information in the footer section (*Figure 32*):

Performing Site: Displays the name, address and telephone number of performing sites for all of the tests displayed. **E.g.,** HEALTH SCIENCES CENTRE, ST. JOHN'S, NL, A1B-3V6, 709-777-6875

Performing Site HEALTH SCIENCE CENTRE, ST. JOHN'S, NL, A1B 3V6, 709-777-6875

Figure 32: Pathology Report Footer

3.1.3 Pathology Reports: Report Status and Result Status

The following are valid **report statuses** for a Pathology Report. The report status is displayed in the report header section.

Report Status	Description	CDV Tree Report Display
Final	Final results; results stored and verified.	Normal font
Cancelled	No results available; Order cancelled.	Strikethrough font
Correction in progress	Report has been corrected and cannot be viewed.	Italicized font
Retracted	Report has been retracted and cannot be viewed.	Gray styling font

The bodies of the reports with Cancelled status are not displayed. The **result status** is displayed on the top-right of the Results section when viewing a Pathology report.

The following are valid result statuses for Pathology Reports.

Status	Description
Final	Final test result; result stored and verified.