

**Chapter VI: Results**

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### ***Results Tab Overview***

The **Results** chart section is where you can view clinical results for selected patients. It is comprised of the **Display** window and the **View Control Panel**.

The **Display** window of the **Results** chart section displays results in the form of numbers, text, and graphs, based on the type of result and the display format you select in the **View Control Panel**. The **Display** window's title bar reflects the **Since** and **Result Selection** filters you select. If more dates or results are available than can be displayed at one time, scroll bars allow you to scroll the dates or results into view.

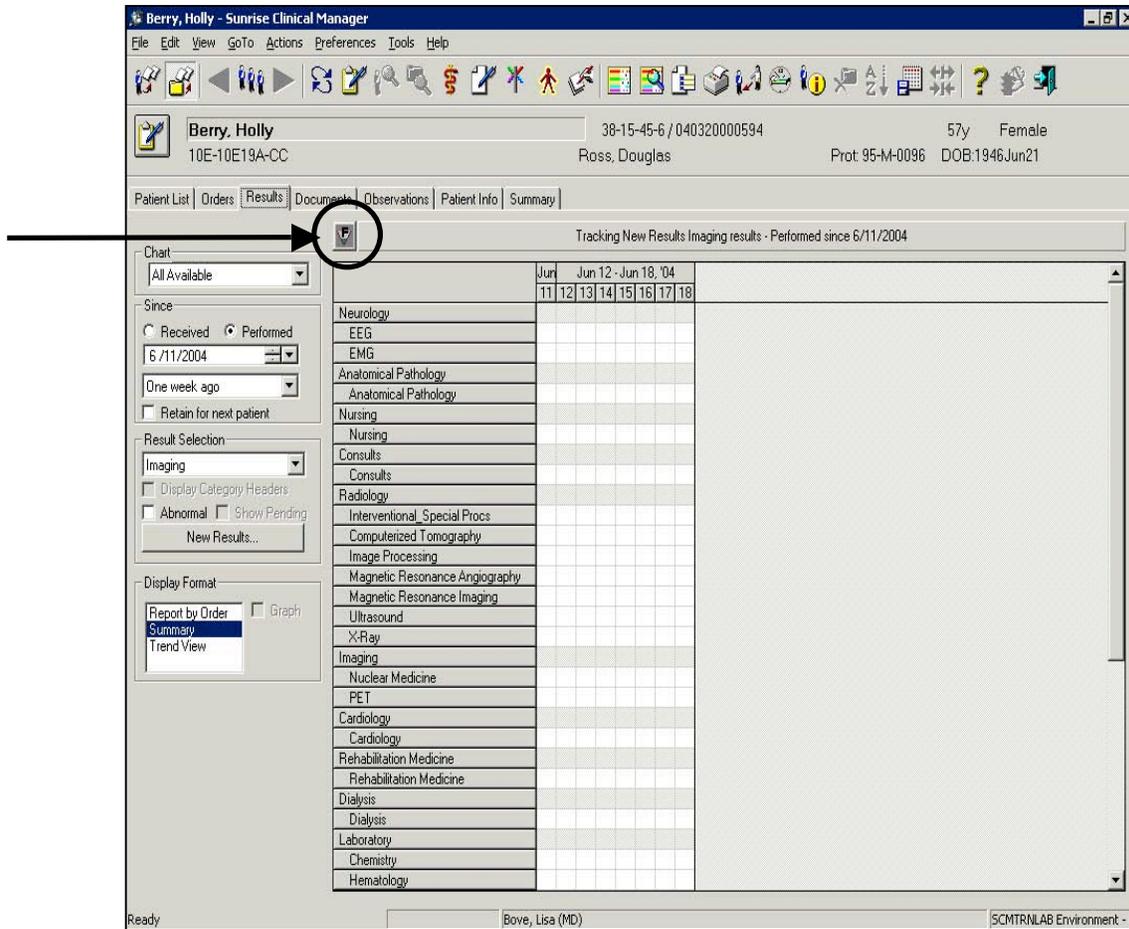
The **View Control Panel**, to the left of the **Display** window, is where you set your criteria for displaying results. CRIS uses results filters to show only those types of results that match the filter criteria. A filter enables you to focus on selected results by "filtering out" results that don't meet the filter criteria. For example, if you choose a Radiology filter, only the results from the Radiology department display.

To display the **Results** chart section, click the **Results** tab, or from the **Go To** menu, choose **Chart Section**, then **Results**.

### ***Filters***

You can specify which results you want to see by screening or *filtering* which results are to be displayed. A *filter* is a collection of one or more result categories or items; for a result to be displayed, it must fall into the specified category or match the specified result item. A filter enables you to focus on selected results by "filtering out" results that don't meet the filter criteria. For example, you can create a filter to display only lab results or only x-rays.

The **Filter** icon displays at the top left corner of the **Display** window to indicate that the results are filtered.



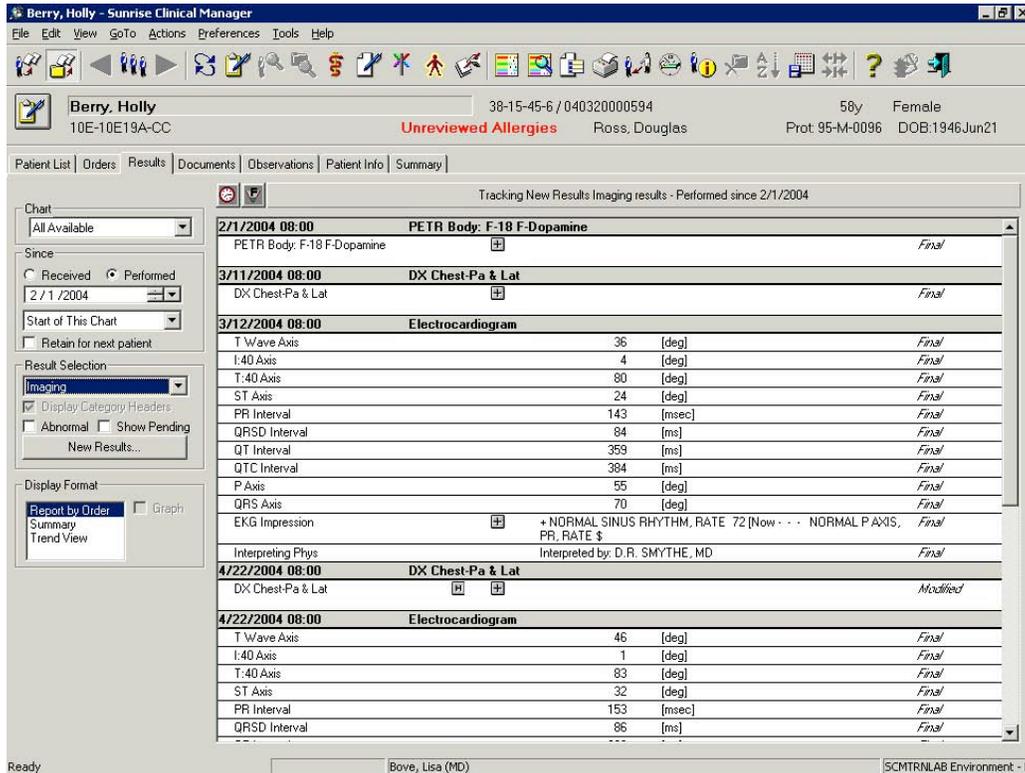
Screen 1: Filtered Results

**View Control Panel (Filter) Definitions**

- **Chart: All Available** refers to all information for all visits. **This Chart** is limited to this visit.
- **Since:** Used to specify a date range for viewing. When you know exact dates, enter the start date in the **Since** field. If there is an end date, enter the date in the **To** field. You can also use pre-defined timeframes from the drop-down list such as one week ago or one month ago. You should not use both options at the same time. Note: If a time frame is used it will change the Since date.
- **Result Selection:** This option lets you view **ALL** information by department or category. Other categories are also available:
  - Imaging
  - Laboratory
  - Transfusion Medicine
  - Chemistry
  - Hematology
  - Microbiology

**Display Format:** This option gives you multiple ways to view information which may appear as a **Report, Summary** or grid for trending data.

**Report by Order View** - Displays results sorted by date and time, and each result with the associated order as its header.



Screen 2: Results View by Order

When you double-click a cell in the spreadsheet, the selected results display in **Report by Order** view, and include the performed date/time, all numeric and textual information, the result reference range (if available), and the abnormality.

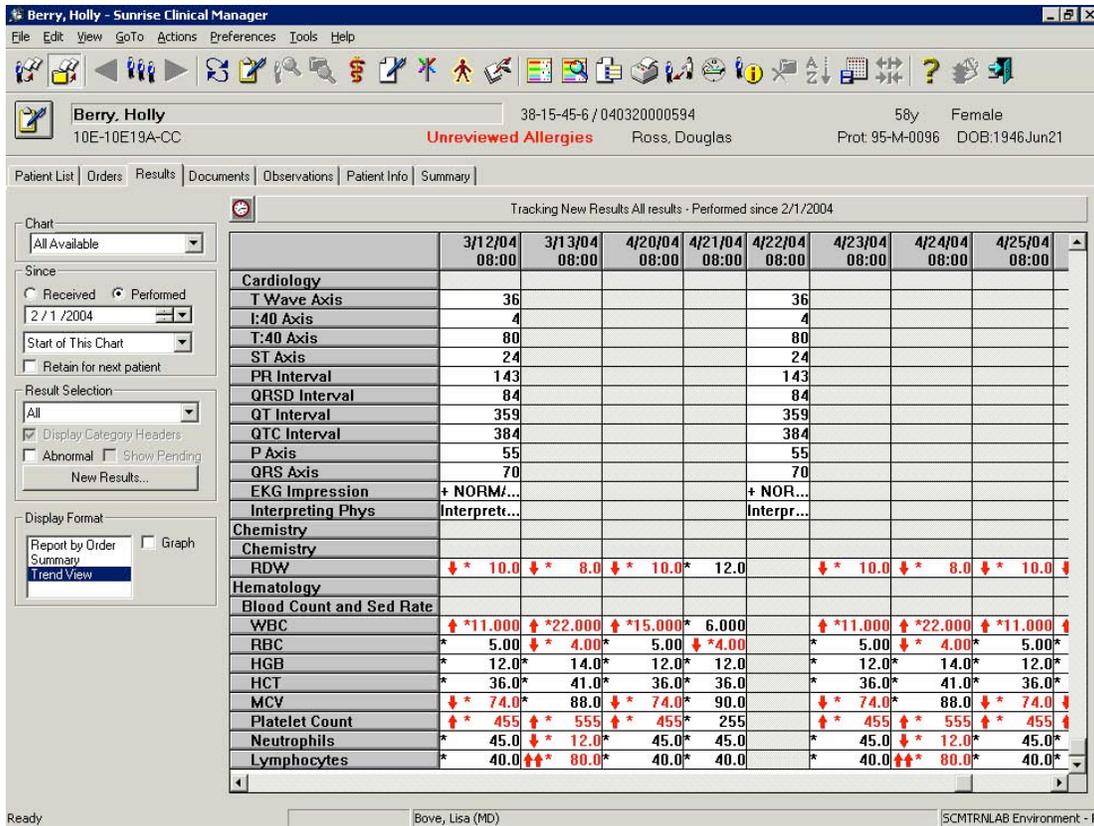
**Summary View**

The **Summary** view displays an overview of results for a selected patient, based on the options you have selected in the **Chart, Since, and Result Selection** sections in the **View Control Panel**. The **Summary** view does not provide detailed result information, but rather whether or not specific results exist for a given date. The information displays in a grid with dates at the top and result categories on the left side.

**Screen 3: Results Summary View**

**Trend View**

The **Trend** view displays results in a grid or spreadsheet format. This view is most useful for viewing and comparing numeric results. The result category headings are listed down the left side of the display window. Abnormal results display in red to call attention to them; arrows indicate whether the result is above or below the normal range.



Screen 4: Results Trend View

An ellipsis (...) is displayed if text results in the **Trend** view don't fit in a column. You can resize the column to view the text results. An asterisk is displayed if there is a result associated with that order that is not being displayed in the **Trend View**.

### Working with Graphs

You can view results in a graph format when you select **Trend View** from the **View Control Panel** and check the **Graph** check box. The line graph does not display when the result item you choose contains text or if results do not exist.

The screenshot shows the 'Berry, Holly - Sunrise Clinical Manager' interface. At the top, there's a menu bar (File, Edit, View, GoTo, Actions, Preferences, Tools, Help) and a toolbar with various icons. Below that, patient information is displayed: Berry, Holly, 38-15-45-6 / 040320000594, 58y, Female, Prot: 95-M-0096, DOB: 1946Jun21. There are tabs for Patient List, Orders, Results, Documents, Observations, Patient Info, and Summary. The 'Results' tab is active, showing a table of lab results for 'Tracking New Results All results - Performed since 2/1/2004'. The table includes columns for dates from 3/12/04 to 4/25/04 and rows for Hematology (RDW), Blood Count and Sed Rate (WBC, RBC, HGB, HCT, MCV), and Platelet Count (Neutrophils, Lymphocytes). A graph titled 'Platelet Count' is displayed below the table, showing data points for KAUJ from February to May 2004. The graph has a yellow background and a blue line connecting the data points. A shortcut menu is visible over the graph, listing options like 'Normal Range', 'Highlight Abnormal', 'Mark Data Points', 'Plotting Method', 'Grid Lines', 'Color', 'Font Size', 'Undo Zoom', 'Maximize', and 'Print/Export'.

	3/12/04 08:00	3/13/04 08:00	4/20/04 08:00	4/21/04 08:00	4/22/04 08:00	4/23/04 08:00	4/24/04 08:00	4/25/04 08:00
RDW	↓ * 10.0	↓ * 8.0	↓ * 10.0	* 12.0		↓ * 10.0	↓ * 8.0	↓ * 10.0
<b>Hematology</b>								
<b>Blood Count and Sed Rate</b>								
WBC	↑ * 11.000	↑ * 22.000	↑ * 15.000	* 6.000		↑ * 11.000	↑ * 22.000	↑ * 11.000
RBC	* 5.00	↓ * 4.00	* 5.00	↓ * 4.00		* 5.00	↓ * 4.00	* 5.00
HGB	* 12.0	* 14.0	* 12.0	* 12.0		* 12.0	* 14.0	* 12.0
HCT	* 36.0	* 41.0	* 36.0	* 36.0		* 36.0	* 41.0	* 36.0
MCV	↓ * 74.0	* 88.0	↓ * 74.0	* 90.0		↓ * 74.0	* 88.0	↓ * 74.0
Platelet Count	↑ * 455	↑ * 555	↑ * 455	* 255		↑ * 455	↑ * 555	↑ * 455
Neutrophils	* 45.0	↓ * 12.0	* 45.0	* 45.0		* 45.0	↓ * 12.0	* 45.0
Lymphocytes	* 40.0	↑ * 80.0	* 40.0	* 40.0		* 40.0	↑ * 80.0	* 40.0

Screen 5: Graphed Results

You can display a shortcut menu when a graph is displayed. The options in the shortcut menu allow you to customize the graph by selecting a plotting method, grid lines, and font size. You can check or uncheck options in the shortcut menu to display a normal range for the graph, to mark data points, and to specify whether the graph should be displayed in color. You can also zoom in on the graph, maximize the graph, print, or export the graph file from the shortcut menu.

- ✓ Normal Range
- ✓ Highlight Abnormal
- Mark Data Points
- Plotting Method ▶
- Grid Lines ▶
- ✓ Color
- Font Size ▶
- Undo Zoom
- Maximize
- Print/Export

Screen 6: Graph Shortcut Menu

**To view results in graph format:**

1. In the **Display Format** section of the **View Control Panel**, choose **Trend View**.
2. Select a row in the trend grid.
3. Click the **Graph** check box. The graph appears in the lower half of the **Display** window.
4. To change the graph format, click the right mouse button, and select the format options you want from the shortcut menu.

**Remove Filter**

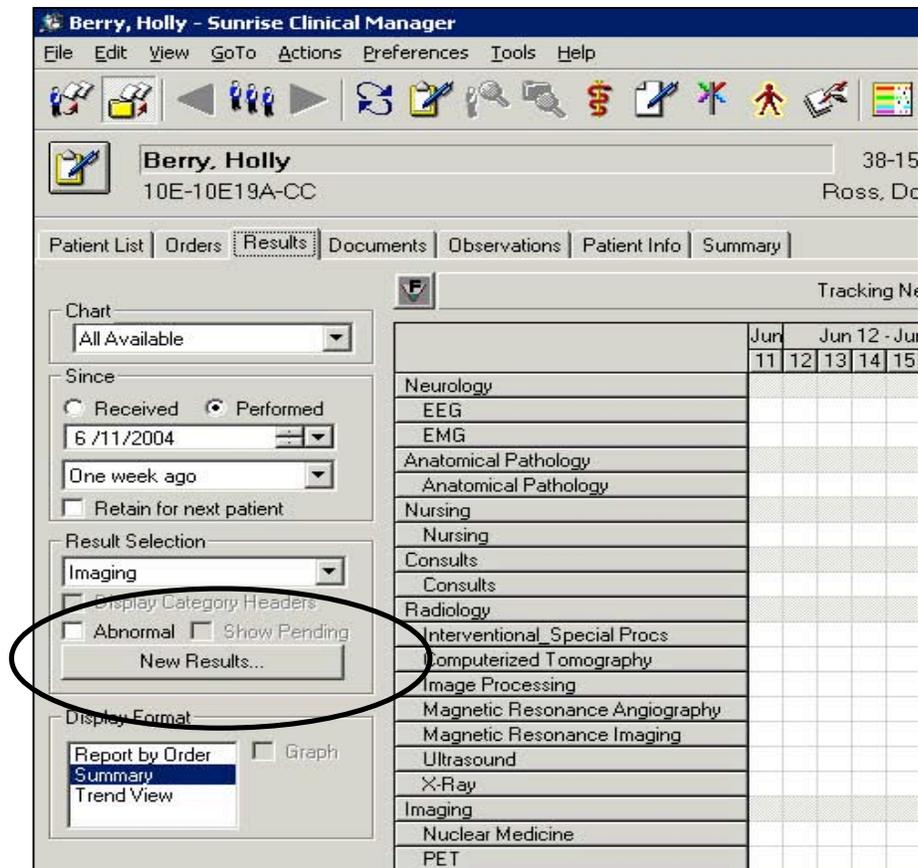
Once a filter is applied, you can remove it or change to another filter. To remove a filter, change the selection back to **All**.

***New Results***

You can display new results from the **Results** tab.

**To view new results from the Results tab:**

1. Click the **New Results** button. The **New Results** dialog box will display.
2. To clear the flag, click **Clear Flag** on the **New Results** dialog box. Otherwise, click **Don't Clear Flag**.



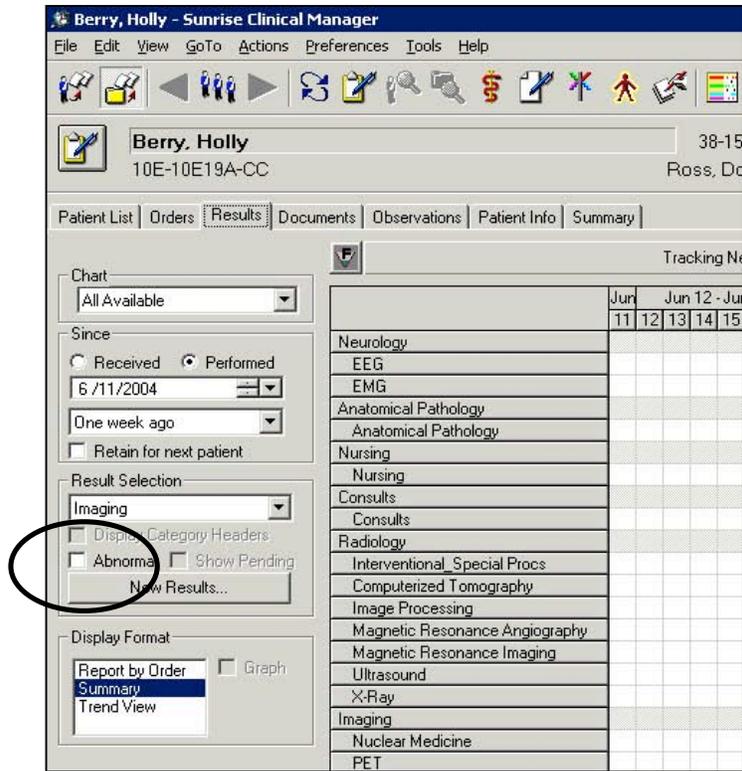
Screen 7: New Results Button

### ***View Abnormal Results***

You can limit the display in the **Results** tab to abnormal results only.

#### **To display abnormal results only from the Results tab:**

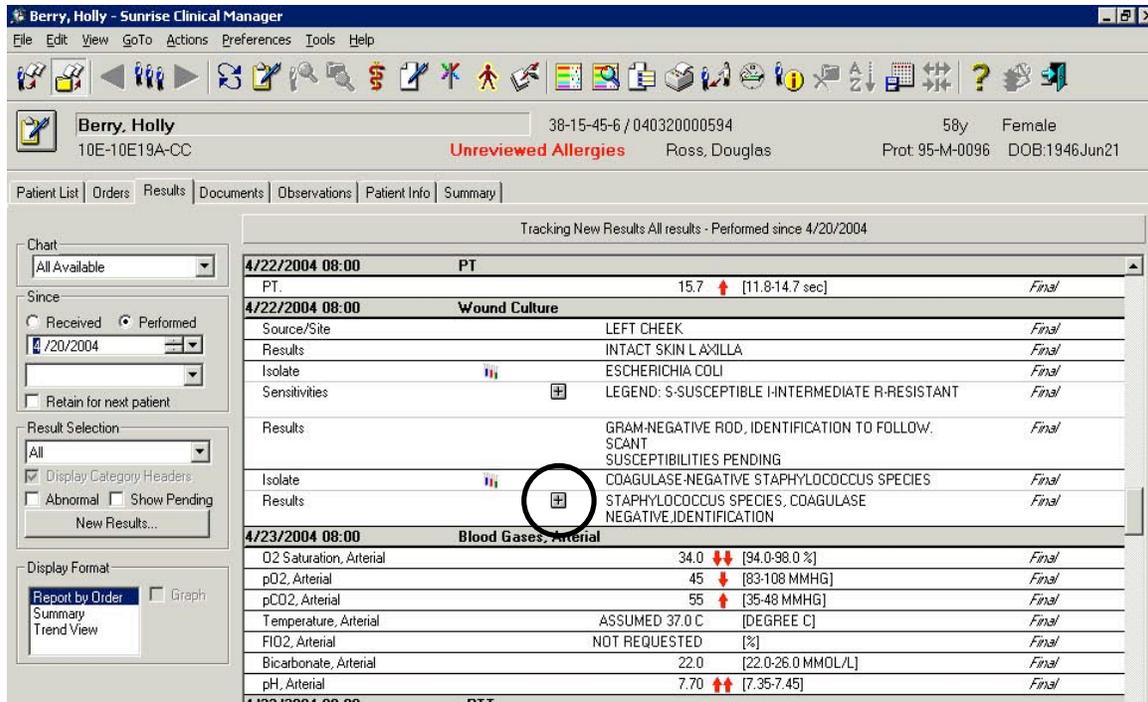
1. Click the **Abnormal** checkbox. Only abnormal results will display.
2. To view all results, uncheck the **Abnormal** checkbox.



Screen 8: Abnormal Results Checkbox

**Viewing Expanded Results**

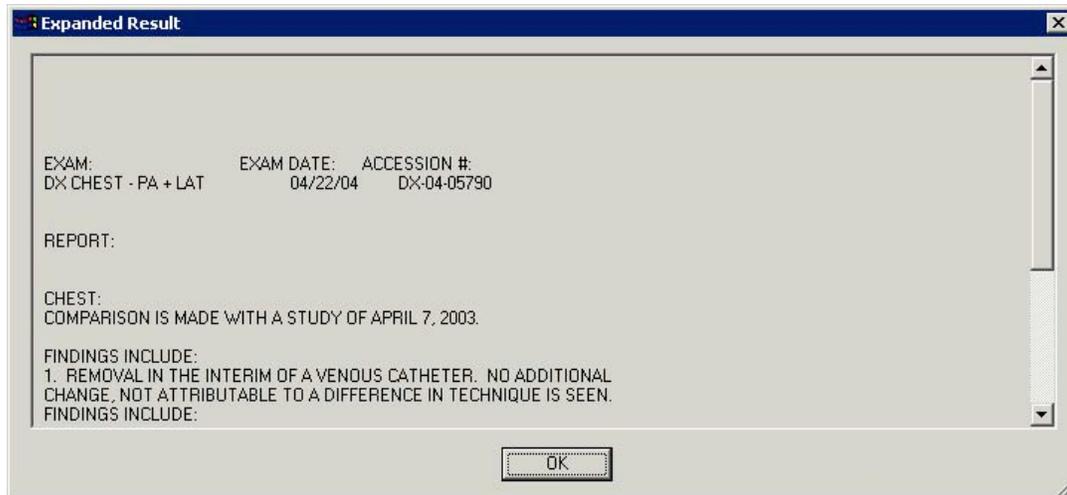
If a result contains more information than can be displayed at one time in the **Display** window of the **Results** chart section, you can view the complete result in the **Expanded Result** dialog box.



Screen 9: Expanded Results Icon

**To view an expanded result:**

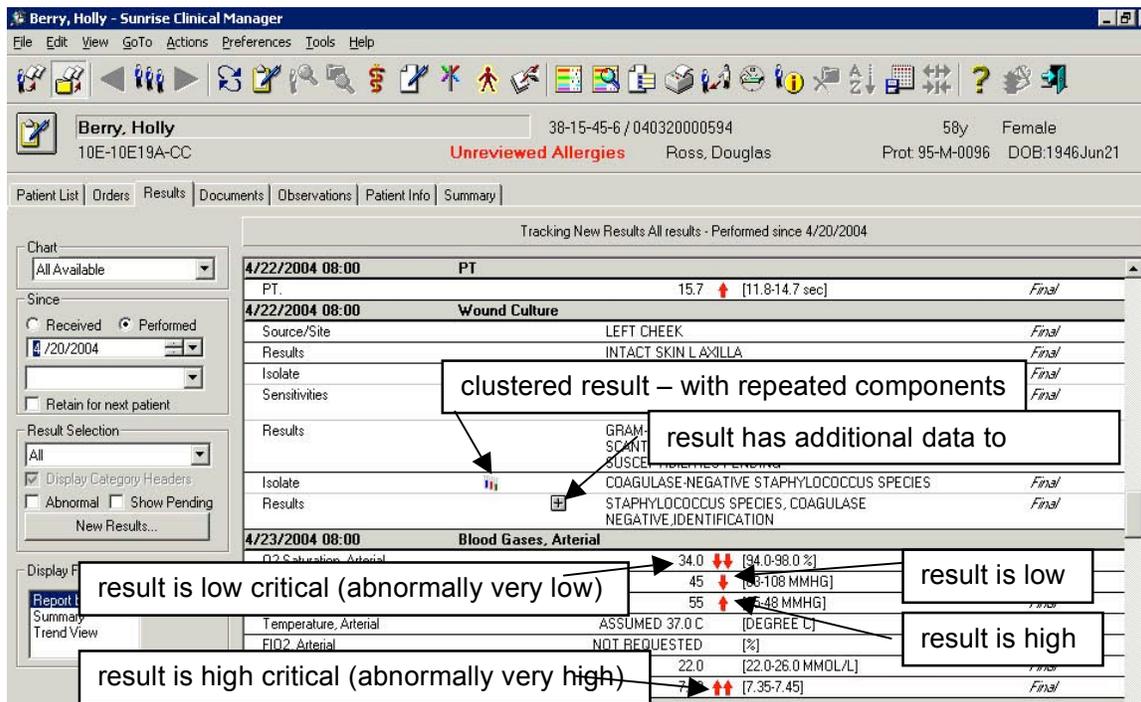
1. In the **Results** chart section, click the **Expanded Result** icon. The **Expanded Result** dialog box opens and displays the text of the result. If available, an indication of where the result falls in the range is also displayed (for example, normal, abnormally high, etc.).



Screen 10: Expanded Result Screen

**Symbols**

The following symbols and icons indicate the various types of results:



**Table 1: Results Tab Symbols**

**Re-order from Results Tab**

You can re-order tests and procedures directly from the Results tab.

**To re-order from the Results tab**

1. Right-click on the test result that you want to re-order.
2. Select **Reorder**. A message will display to let you know that there are required fields that need to be completed on the order form.



**Screen 11: Re-order Sample Message**

3. Click **OK**. The **Order Entry Form** will display.
4. Complete the form to re-order the test or procedure.
5. Click **OK**. The order will be placed on the Summary Pane of the Order Entry Worksheet.

6. Click on the **Order Entry** icon.



Screen 12: Order Entry Icon

7. Click **Submit**. The order will be submitted.

### ***Personalize Your Results View***

#### **Change and save time scale for viewing results**

You can change the time scale for the dates in the **Summary View** on a per-patient basis. There are up to four options:

- Days
- Weeks
- Months
- Years

**Note:** Depending on the date specified in the **Since** field, some of the selections in the **Actions** menu may be disabled. For example, if the value in the **Since** box is less than one month, **Months** and **Years** are disabled. If the value in the **Since** box is more than 6 months (such as a year ago), **Days** is disabled.

#### **To change the time scale:**

1. Display the **Results** chart section.
2. In the **View Control Panel**, select **Summary** from the **Display Format** list.
3. In the **Since** group box, select or enter how far back you want to display results.
4. From the **Actions** menu, select **Modify Time Scale** and then choose the interval you want. You can save the time scale for viewing a patient's results in the **Summary** view of the **Results** chart section. The time scale remains as you have selected for that patient, until you select and save a different interval..

#### **To save the current time scale:**

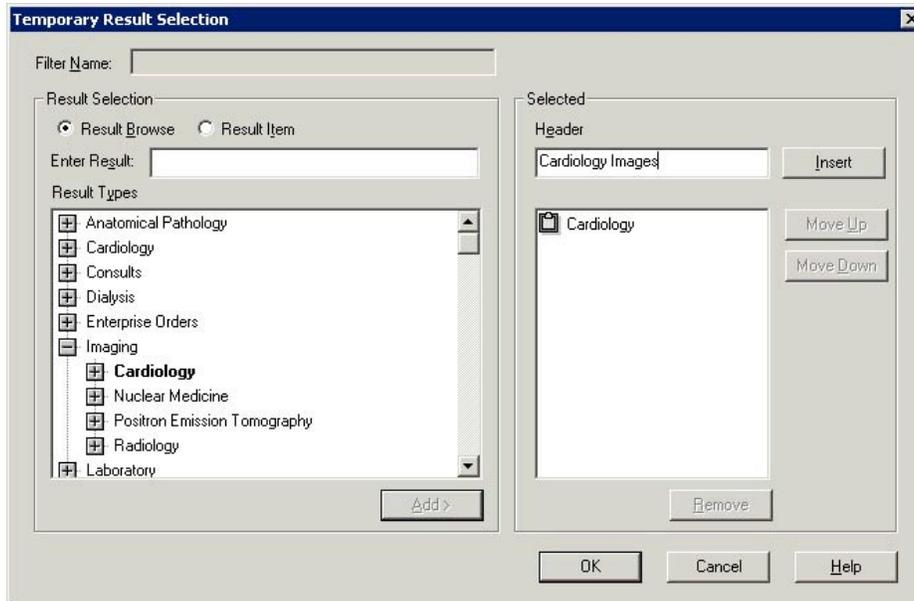
1. Do one of the following:
  - a. Click the **Save Time Scale** icon on the toolbar.
  - b. From the Preferences menu, select **Save Time Scale**.
2. The Save Time Scale icon displays at the top left corner of the Display window to indicate that you have saved a time scale.

### Creating a temporary result selection filter

The **Temporary Result Selection** dialog box allows you to select results to be displayed in the view on a one-time or temporary basis. This filter is cleared and not saved after you log off or select another filter.

To create a temporary selection filter:

1. From the Result Section filter, select <Temporary Selection...>. The Temporary Result Selection window displays.



Screen 12: Temporary Results Selection Window

### Setting your preferences for viewing results

The **Personal Results View Options** dialog box allows you to set up customized, personal preferences for the **Results** chart section. By setting your preferences, you can see the information important to you in the **Results** chart section. The three tabs in this dialog box allow you to:

- Create and maintain filters for the types of results you want to view (**Result Selection** tab).
- Create graph filters (**Graph Selection** tab).
- Specify the default result selection filter and display format for the chart section (**Display Format** tab).

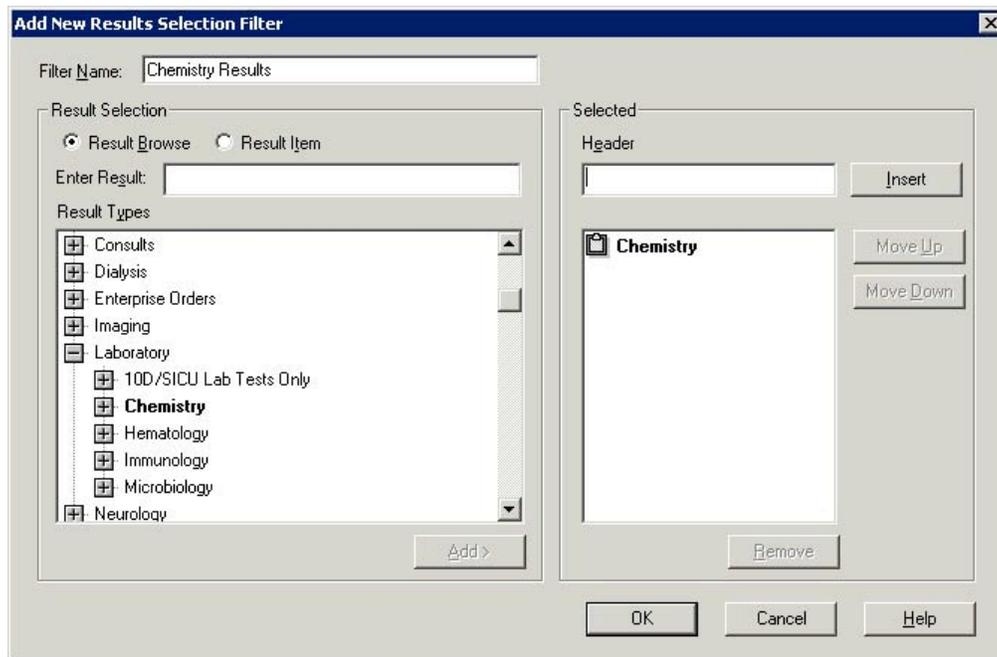
#### Results Selection Tab

The **Result Selection** tab of the **Personal Results View Options** dialog box displays the current result selection filters. In this dialog box, you can add, change, or delete filters, and choose a default filter for when you display the **Results** chart section. If you do not choose a default filter, the filter **All** (which

cannot be deleted or modified) is the default. You can create a new filter and make it the default, or you can make an existing filter the default.

**To add a result selection filter:**

1. From the **Preferences** menu, select **Results**. The **Personal Results View Options** dialog box opens.
2. Click the **Result Selection** tab.
3. To create a new filter, click **Add New**. The **Add New Results Selection Filter** dialog box opens.



**Screen 13: Add New Results Filter Window**

4. Type a name for your new results filter in the **Filter Name** field.
5. In the **Result Selection** group box, do one of the following:
  - a. Click **Result Browse**. The **Browse** shows a tree structure of result groups and items. Select the group or item you want included in the filter. To select sequential groups or items, hold down Shift and click on each choice. To select non-sequential groups or items, hold down Ctrl and click on each choice.
  - b. Click **Result Item**. Enter part or the entire name of the item you want to include in the filter. When you enter part of the name and pause, an alphabetical list of items that begin with the characters you entered displays in the browse window.
6. Select a category or item and click **Add** to place the selected item(s) in the **Selected** list. To delete any groups or items from the **Selected** list, select the category or item and click **Remove**.
7. Click **OK** to return to the **Result Selection** tab.

8. If you want to make the new filter the default, click **Set as Default**.
9. Click **Close** to save the filter and return to the **Results** chart section. The new filter appears in the **Result Selection** drop-down list in the **View Control Panel**. If you selected the filter as the default, it will be used the next time you log on and display the **Results** chart section.