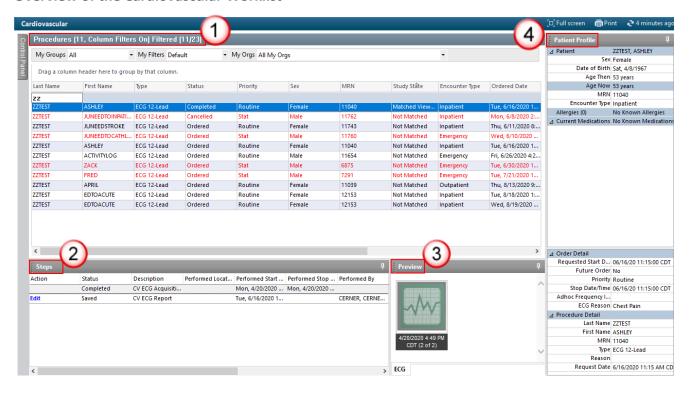


**HOSPITAL INFORMATION SYSTEM (HIS)** 

### **PRESCRIBERS**

#### **Overview of the Cardiovascular Worklist**



Section	Description
	Displays a list of ECG procedures and the information relevant to each procedure. This acts as
	the driver component for the other three panes. It is possible to change the informational fields
	(columns) and the order in which they are displayed.
2. Procedure	Displays the list of intra-procedural steps that are associated with the procedure selected in the
Steps List	Procedure List. A step could be acquiring an ECG or completing a final report.
3. Preview Pane	Displays thumbnail previews of images associated with the selected procedure. View an image
	or report in the appropriate image viewer by double-clicking that thumbnail in the Preview
	Pane.
4. Patient Profile	Displays contextual patient information relevant to the selected procedure. The Patient Profile
	is made up of two parts, the Patient Profile and the Details pane. The Patient Profile consists of
	demographic information, allergies, medications, and current and historical procedures for the
	patient. The Details pane displays details associated with a selected component of the Patient
	Profile. For example, if you select a historical procedure from the Patient Profile, the summary
	findings from the final report for the procedure is displayed in the Details pane, along with a
	link to open a read-only copy of the final report.



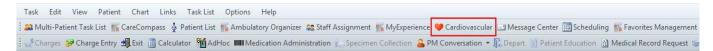




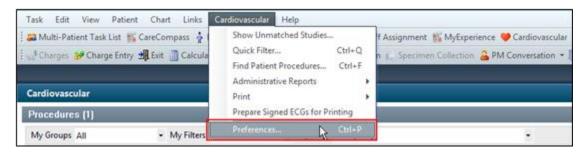
HOSPITAL INFORMATION SYSTEM (HIS)

#### **Initial Set Up**

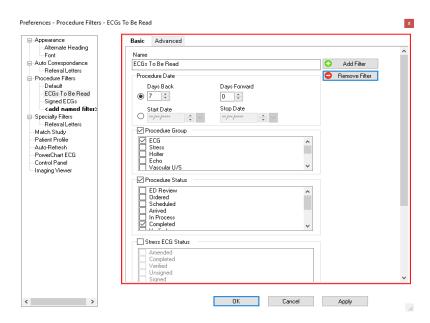
- 1. Log into PowerChart or FirstNet using your username and password.
- 2. Launch the Cardiovascular worklist by clicking the Cardiovascular icon on the menu bar.



3. The default worklist appears. From the **Cardiovascular** menu item that now appears at the top of screen, scroll to **Preferences** and select it.



4. Select the Add Filter button. Enter a name and the filter parameters, then select OK to save.



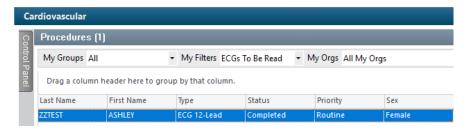




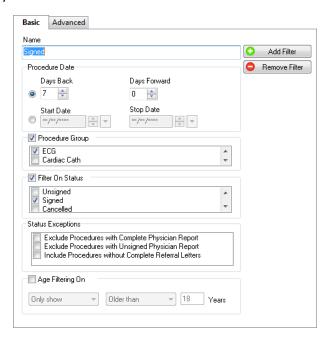


HOSPITAL INFORMATION SYSTEM (HIS)

5. Go back to the Cardiovascular worklist and change your **My Filters** dropdown from **Default** to **ECGs To Be Read**. You should now see a list of ECG waiting to be interpreted and signed.



6. Additionally, create a filter for **Signed** ECGs. This is useful for amending any previously read ECGs, if necessary.



7. Changing the **My Filters** dropdown from **Default** to **Signed** should show the list of previously signed ECGs.









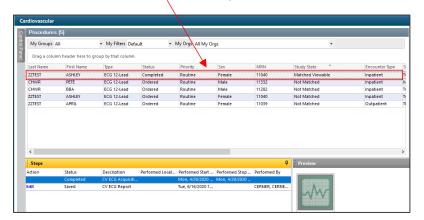
HOSPITAL INFORMATION SYSTEM (HIS)

#### Viewing ECG, Holter, and Stress Test

Once the procedure is completed, you will need to find the study you want to read. To be able to view a study, it must be in a **COMPLETED**, **UNSIGNED**, or **ED REVIEW** status. These procedures can be viewed from multiple places within Cerner, including the Cardiovascular Worklist, MPAGES, and Results Review.

### Through Cardiovascular Worklist

- 1. Launch the Cardiovascular worklist by clicking Cardiovascular on the menu bar.
- 2. From the Cardiovascular Worklist, double-click the patient's order to launch the ECGViewer.



#### Through Results Review

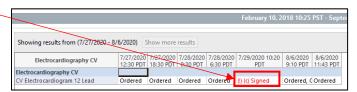
1. Navigate to the Blue Menu located on the left of the screen and click



2. Click on the Electrocardiography CV section of the Navigator



3. Double-click the Completed, Unsigned, ED Review, or Signed order status to launch the ECG Viewer.





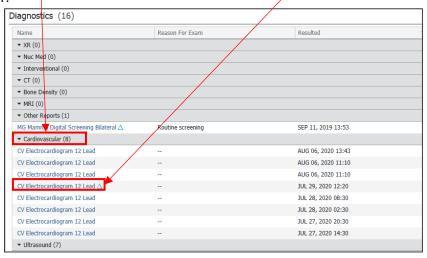




**HOSPITAL INFORMATION SYSTEM (HIS)** 

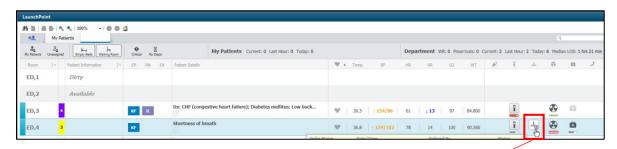
### Through Workflow or Summary MPages

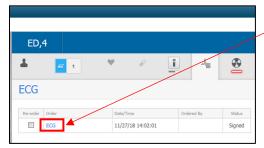
- 1. Click on Prescriber View on the Blue Menu to open the prescriber view.
- 2. Scroll through the Component List and select Diagnostics (0)
- 3. Expand the Cardiovascular section and double-click the CV Electrocardiogram 12 Lead link to launch the ECG Viewer.



### Through FirstNet's LaunchPoint

From FirstNet's Launch Point, select the waveform icon and then select the ECG order(s) to launch the ECG viewer.





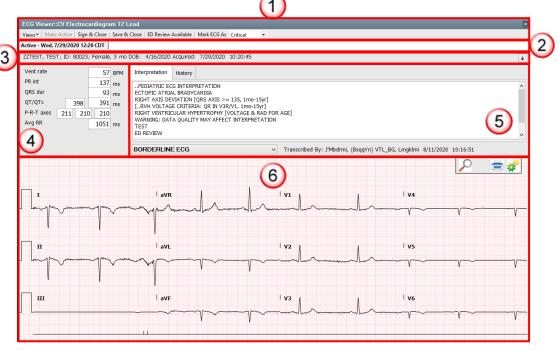






**HOSPITAL INFORMATION SYSTEM (HIS)** 

Overview of ECG Viewer



Section	Description
1 - ECG toolbar	Views list Views*: Includes options for 12-Lead ECG, Median Beats 3x4, and Median Beats Overlay  Make Active Make Active: Click any other tab (prior or newer ECG waveform) in the ECG toolbar and click  Make Active to make that specific ECG active  Sign and Close Sign & Close  Save and Close Save & Close  Mark ECG As Mark ECG As: Sets the criticality the procedure in ECG Management
2 - ECG Tabs with Dates and Times	Includes the ECG tabs with dates and times when a current or prior ECG was performed. A tab is displayed for each individual ECG in a patient record beginning at date of implementation of solution moving forward. Click a tab or click the previous button (<) or next button (>) to view different ECGs.
3 - Patient Demographics	Click the expand button to show more details. Click the collapse button to hide the details.
4 - ECG Discrete Data	Displays discrete data values derived from the ECG cart algorithm.
5 - ECG Interpretation and History	Displays interpretation data and History tab that displays historical save/sign information.
6 - ECG Waveform	ECG waveform is displayed. Calipers can be utilized for both vertical and horizontal measurements. The following buttons are on the ECG Waveform toolbar: Magnify: Toggle on/off by selecting the button Compare: Click the compare button to compare an available patient ECG with current Print: Sends to a local printer Settings: Expand ECG Waveform viewing options. Click the settings button again to collapse the viewing options. The settings button includes the following options:

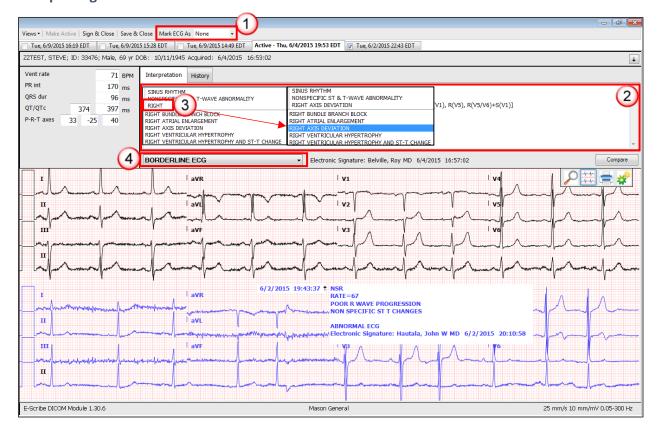






HOSPITAL INFORMATION SYSTEM (HIS)

### **Interpreting ECG**



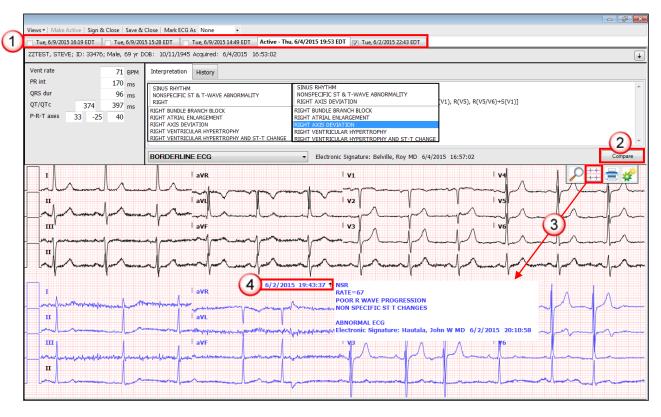
- **1. Normalcy Indicator** This box contains the normalcy indicator (None, Abnormal, Critical) assigned to the ECG. This can be determined by the Classification Statements previously selected, or by the Reading Provider manually changing the value.
- **2. Interpretation Box -** The interpretation box will be populated with a preliminary interpretation from the cart, as well as the preliminary / wet read interpretation from the ED Physician or Mid-Level, if present. If there is a preliminary interpretation, the signature line will display "Transcribed by <Name>" instead of the usual "Unconfirmed Report."
- **3. Predictive Statements -** To use predictive text statements, simply start typing. The predictive search engine will suggest different options based on frequency of use. Select the desired statement from the list using the mouse or using the "Down Arrow" key.
- **4. Classification Statements** This box contains a general classification of the interpretation from the cart. Clicking on the dropdown arrow allows the Reading Provider to change this classification.







**HOSPITAL INFORMATION SYSTEM (HIS)** 



- **1. Comparison View -** Prior ECGs can be located using the tabs along the top of the viewer. Selecting a prior ECG will activate the comparison tool.
- **2.** To perform a serial comparison between ECGs, select the **Compare** button on the right. A comparison text box will be added along with the comparison text.
- **3.** To perform a beat comparison (or side by side comparison) toggle the button while the prior ECG is checked.
- **4.** Hide/move the comparison interpretation by clicking on the arrow.



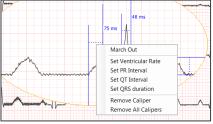




**HOSPITAL INFORMATION SYSTEM (HIS)** 



- **1. Zoom** Toggle the zoom/magnification with the zoom button. Alternatively, if using a mouse with a scroll wheel, slide the wheel up or down to zoom in or out without having to select the magnifying glass icon.
- **2.** Calipers Calipers can be quickly drawn by holding a left click anywhere on the waveform, dragging the cursor, and then releasing the left click. Multiple calipers can be drawn, even while using the Magnifying Glass option. Move Calipers by selecting the dashed line and dragging the caliper to a new location. Resize Calipers by selecting the solid blue lines and dragging them closer together or farther apart.
- **3.** Right clicking on a Caliper provides the option to either remove the Caliper, or to set fiducial measurements.



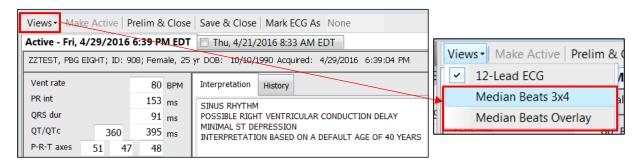






**HOSPITAL INFORMATION SYSTEM (HIS)** 

**4. Fiducial Measurements -** When an ECG is taken, the fiducial measurements are automatically marked on the ECG. The ECG Viewer gives you the ability to view and change these measurements. To view Fiducial Measurements, select either the **Median Beats 3x4** or the **Median Beats Overlay** option from the **Views** drop down.



#### Median Beats 3x4 View



#### Median Beats Overlay View



**Setting Fiducial Measurements** - Zoom into the wave form, draw a caliper, right click on that caliper, and select the appropriate measurement as desired. Updated measurements will display in bolded text in the ECG Viewer.

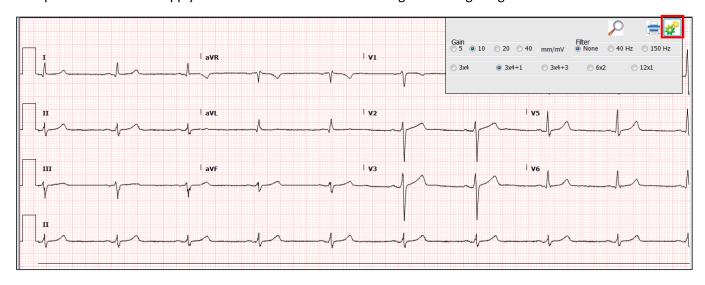






HOSPITAL INFORMATION SYSTEM (HIS)

**Gain and Filter** - By default, the ECG Viewer displays a **3x4** ECG with a **Gain** value of 10 mm/mV and a **Filter** value of **None**, but these settings can be adjusted using the cog wheel icon. These changes are a user preference and will apply to all ECGs viewed until the settings are changed again.



#### **Signing ECG**

After interpreting the ECG, make sure to save your changes by selecting either **Sign & Close** or **Save & Close** when done.

- If you are you are ready to finalize the ECG, select Sign & Close.
- If you are not ready to finalize the ECG, select Save & Close.

Please note, if you are not a finalizing provider, the **Sign & Close** option should display either **ED Review & Close** or **Unsign & Close** instead.





