

# From the Office of Clinical Informatics ECG Management Ambulatory & Inpatient Provider ECG Review September 14, 2020

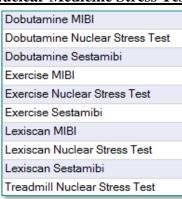
On September 28, 2020 ECG Management will Go-Live to increase the efficiency in which ECG tests are imported into the medical record. ECG Management is a tool that allows ECG tracings to be transferred electronically into Cerner and are immediately available within the patient chart for Providers to review. This flyer outlines steps to review an ECG and Stress Test results within the patient record in Power Chart.

# ECG Management

ECG Management is an order driven workflow and <u>MUST</u> begin with order entry. New **standardized** ECG and Stress orders have been created (**exception: EMMC Exercise Stress** order) to decrease time spent searching for member organization specific orders and to minimize order entry errors. Previous orders for ECG and Stress Test have been removed from the orders catalog and new orders can be found

on Quick Order MPages or by using the order search function.

- ECG and Stress Test Orders
  - **CV ECG** used for patients over 18 years of age.
  - **CV ECG Pediatric** used for patients under 18 years of age.
  - CV ECG Medicare Initial Wellness Visit
  - CV Exercise Stress Test
  - <u>Nuclear Medicine Stress Test</u>



Poc Testing	≣•⊗
CV ECG Pediatric	
CV ECG.	
Medicare Screening	=• 📀
CV ECG Medicare Initial Wellness Visit	

## Echocardiogram w/Stress Test

Dobutamine Stress Echocardiogram Exercise Stress Echocardiogram Stress Echocardiogram Treadmill Stress Echocardiogram

<u>NOTE</u>: All ECG, Echo Stress and Nuclear Med orders placed prior to September 28, 2020 or added to personal favorite folders must be canceled/DC and replaced with the new orders that can be found on the Quick Orders MPage for the new workflows in ECG Management to work properly.

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## Provider Workflow to review ECG within the patient chart

- **<u>STEP 1</u>**: Enter the appropriate **CV ECG** order for your patient.
- **STEP 2:** Clinical staff will obtain the ECG and transfer the study to Power chart
- **STEP 3:** ECG is viewable in the Diagnostic component on the workflow MPage.
- **<u>STEP 4</u>**: Click the CV ECG hyperlink to open the **ECG Viewer**.
- **<u>STEP 5</u>**: Maintain current state ECG review documentation within a dyndoc note.

() - 🔒	Provider View	v
Ambulatory 2018	×	Primary Care Quick Orders $\times$
	Ŧ	Diagnostics
Diagnostics	^	Name
Quick Visit		▼ Cardiovascular
Care Team		CV ECG

<u>NOTE</u>: Ambulatory Only - ECG results will populate the ordering providers Message Center when the final interpretation is complete.

# ECG Viewer Tools and Views

Patient Profile 7	Views Make	e Active   ED R	eview & Close   I	relim & Close   Mark	ECG As Abno	rmal 🝷			
⊿ Patient TESTING, LUKE	06/22/2020 5:39	EDT 🛛 🗆 Mo	n, 06/22/2020 5:37	'EDT 📔 🗌 Mon, 06/.	22/2020 5:35 ED	OT Mon, 06/22/2020	) 5:34 El	DT   Mon, 06/22/2020 5:33 EDT   Thu, 06/11/2020 13:47	7 EDT 🔡 🧊 🕩
Sex Male	Acquired	06/02/2020 1	4:46:21 Nor		ID: 2101129	DOB: 10/24/1959 Aq	or 60 1	Varre Sov Mala	+
Date of Birth Sat, 10/24/1959	Acquireu.	00,03,2020	14.40.51 Nan	e. Loke TESTING	10.2191120	000. 10/24/1939 Ag	Je. 00		•
Age Then 60 years	Vent rate		73 BPM	Interpretation	History				<b>†</b>
Age Now 60 years	PR int		214745 ms						
MRN 2191128				Atrial fibrillation					<u>^</u>
Encounter Ty Emergency	QRS dur		104 ms	ED REVIEW	sion, lateral le	eadsST <-0.04mV, I a\	VL V5	V6	
⊿ Allergies (1)	QT/QTc	401	442 ms	PRELIM					
Drug No Known Medica	P-R-T axes	2147	-7 53	ED REVIEW					
⊿ Current Medications (5)	Avg RR								
naproxen (Al 220 mg = 1 TAB, F	-		822 ms						
amLODIPine 10 mg = 1 TAB, P(			442 ms						$\overline{}$
daratumuma 1,120 mg, IV, Even			428 ms				_		
daratumuma 1,120 mg, IV, Even				ABNORMAL ECG					
acetaminoph 500 mg = 1 TAB, F									
⊿ Historical Procedures (3)									- 4
Tue, 06/23/20 CV ECG / Signed									
Tue, 05/05/20 CV ECG / Signed									
Thu, 04/30/2 CV ECG / Signed			1						
	I				aVR			I V1	爻
	1 lpm	-lhan	mult		~~~~~		~~~		+
								y	

## Patient Profile

- Located in the left margin
- Contains basic patient demographic information along with Allergies, Current Medications, and Historical Procedures.

Patient	Patient Profile	-12
	<ul> <li>Patient</li> </ul>	TESTING, MADISON
Profile	<ul> <li>Allergies (3)</li> </ul>	
file	<ul> <li>Current Medications (5)</li> </ul>	
_	<ul> <li>Historical Procedures (4)</li> </ul>	
_		

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#### Views

- Change fiducial measurements
- Unable to change views for ECGs acquired on Phillips and Welch Allyn carts.
- > Comparison ECG toolbar
  - Click box to the left of a previous ECG date to compare to the active ECG.

Active - Tue, 07/21/2020 14:15 EDT Tue, 07/21/2020 13:39 EDT Tue, 07/21/2020 13:27 EDT Tue, 07/21/2020 12:26 EDT Tue, 07/21/2020 11:57 EDT Tue, 07/21/2020 10:52 EDT

## Gears Icon

- **Gain** feature allows you to change the ECG gain.
- **Filter** unavailable for ECGs acquired on Phillips and GE carts.
- **Lead Layout** allows you to change the format of the leads on the ECG.

## Print Icon

• **Print** the ECG populated in the ECG Viewer to a designated printer.

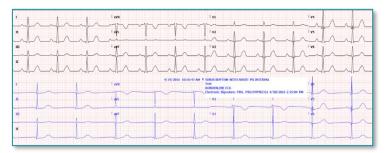
## Compare Icon

- A comparison ECG must be selected in the **Comparison Toolbar** for this button to populate.
- Allows for comparison of two ECGs within the ECG viewer, current ECG is on top with a previous ECG on bottom.
- The blue text box is a textual comparison, and is movable so the wave form underneath is not hidden.

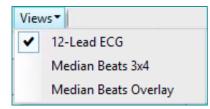
## Calipers Icon

- **Calipers** are quickly drawn by holding left mouse click anywhere on the waveform, dragging the mouse, and then releasing the left click. Multiple calipers can be drawn.
- Calipers can be moved by selecting the dashed line and dragging the entire caliper to a new location.

Gain O 5	● 10 ○ 20	O 40	mm/mV	*
Filter None	○ 40 Hz	○ 150 Hz		-
● 3x4 ○ 6x2	○ 3x4+1 ○ 12x1	○ 3x4+3		<u>^</u>
0 0.2	0 1241			+







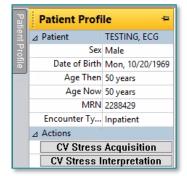
- Calipers can be resized by selecting the solid blue lines and dragging them closer together or farther apart vertically or horizontally.
- Right click on a caliper to view other options or to remove.

# Zoom In/Out

- To Increase/decrease the size of the ECG click the + and icons.
- To zoom in on a specific part of the ECG, click on the desired area and slide the mouse wheel up or down.

# Reviewing the results of an Exercise Stress Test

- **<u>STEP 1</u>**: Navigate to **Diagnostics** component within the patient chart.
- **<u>STEP 2</u>**: Click the CV Exercise Stress Test hyperlink.
- **<u>STEP 3</u>**: Click **Patient Profile** in the upper left corner.
- **<u>STEP 4</u>**: Click the **Pin** icon to keep the Patient Profile open.
- **<u>STEP 5</u>**: Click **CV Stress Acquisition** to view information imported from the stress machine.
- **<u>STEP 6</u>**: Click **CV Stress Interpretation** to review the Cardiologist's interpretation.



<u>NOTE</u>: Exercise Stress Tests performed at EMMC, Stress Echo Stress and Nuclear Medicine Stress and can be reviewed using the current workflow.

For questions regarding process and/or policies, please contact your unit's Clinical Educator or Clinical Informaticist. For any other questions please contact the Customer Support Center at: 207-973-7728 or 1-888-827-7728.