



AHRQ's Initiative To Increase Use of Cardiac Rehabilitation



## Cerner Q&A Session

Kathy Lee Bishop, PT, DPT, CCS,  
FNAP  
Guru Patel



# Chat Function

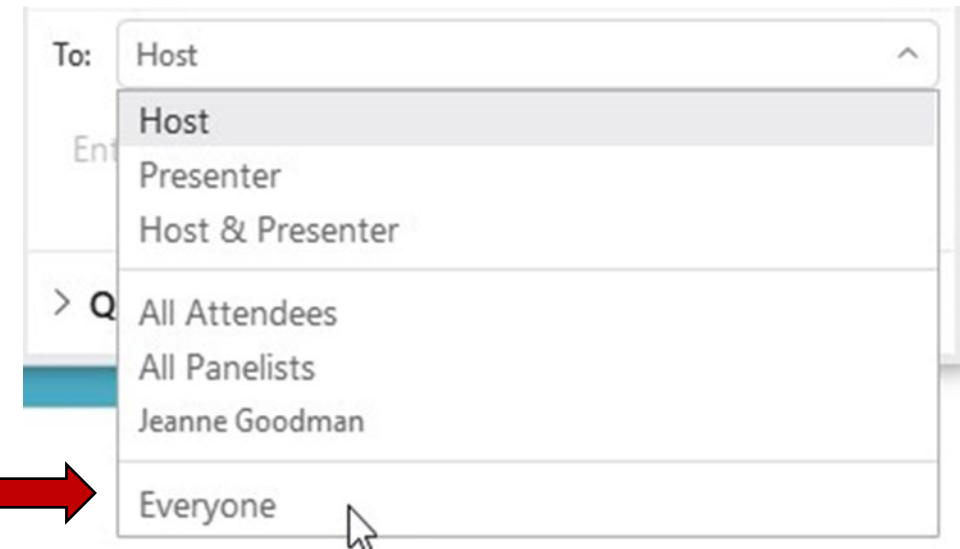
## HOW TO ASK QUESTIONS

To ask a question or make a comment open the chat box



Set the TO: field to **Everyone** so that we can all see your question

Try the chat function now by sending a short greeting to the rest of the group



# Today's Presenters



**Kathy Lee Bishop, PT, DPT, CCS, FNAP**

Board-Certified Cardiovascular and Pulmonary  
Clinical Specialist  
Program Manager, Emory Saint Joseph's Hospital  
Cardiac Rehabilitation Program



**Guru Patel**

Director, Clinical Informatics  
Office of Quality & Risk  
Emory Healthcare

# Commonly Asked Question Categories

1

**General Process Questions**

2

**Diagnostic Codes:** identifying the correct diagnoses and screening for inappropriate patients

3

**Embedding AR into Order Sets**

4

**Engagement, Buy-in and Training** getting physicians to not only refer, but to promote CR

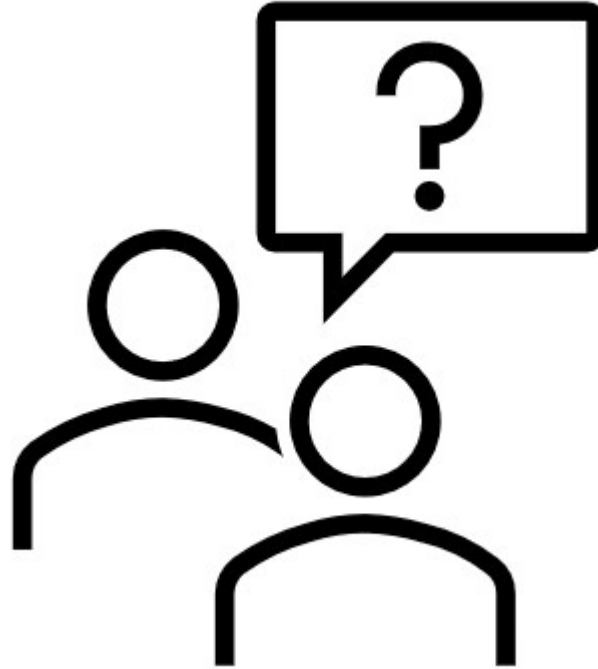
5

**More Process Questions**

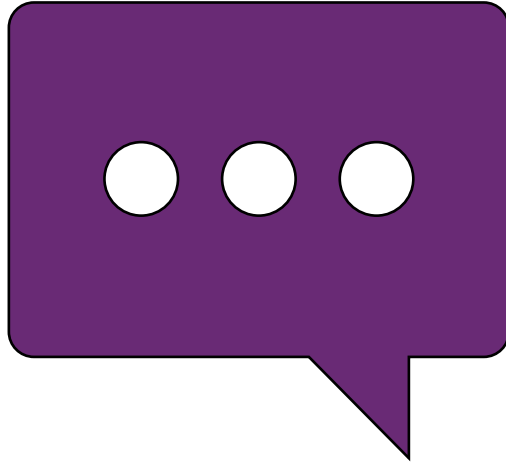
6

**Reports:** methods to run reports from Cerner

# Q&A



# Audience Question



**Question:** In the chat box, tell us one useful insight you will take away from today's Q&A session.

# TAKEheart Resources

## [Module 5 Building and Implementing a Successful Automatic Referral](#)

- Reviewing the important relationship between automatic referral and care coordination.
- Exploring the important factors to think through when designing the EMR specifications for automatic referral to cardiac rehabilitation.
- Creating a testing plan for the newly designed automatic referral system:
  - Defining the testing process
  - Creating success criteria
  - Allowing for adjustments and refinements
  - Preparing for implementation

## [Module 7 Troubleshooting Your Automatic Referral System](#)

- This module builds upon Module 5 which discussed how to build an automatic referral (AR) order set. Expert speakers will cover areas such as how to test the AR order set, prepare for go-live, and developing a data and monitoring plan.
- Topics covered in this module include:
  - Automatic referral testing
  - Staff training
  - Roll-out and reinforcement of automatic referral
  - Evaluation and improvement of automatic referral
  - Extending and spreading automatic referral use

Help us help you!

Please answer the survey questions as you leave the event today

# *Screenshots of Commonly Asked Questions*



# Alert at Discharge

For certain ICD-10 and SNOMED CT codes, when a Card rehab referral order is not present at discharge

The screenshot shows a Cerner alert window titled "Cardiac Rehab Recommended". The window contains the following text:






This patient has an active cardiac diagnosis for which a cardiac rehab referral is considered standard of care. To complete the cardiac rehab referral, click on the 'CARD REHAB' button on the bottom left corner to launch the Cardiac Rehab Referral PowerForm. If cardiac rehab is contraindicated for this patient, select the 'Cardiac Rehab Contraindicated' option and then click sign. You will be prompted to select the primary contraindicated reason from a list before finalizing the order.

Below the text, there is a section titled "Add orders for:" with a checkbox labeled "Cardiac Rehab Contraindicated". A red arrow points to this checkbox.

At the bottom of the window, there are two buttons: "Card Rehab" and "Sign". A red arrow points to the "Card Rehab" button.

# Order Set for CPOE

When a provider wants to order Cardiac Rehab Referral during patient stay

	Component	Status	Dose ...	Details
<b>Cardiac Rehab Referral (Initiated Pending)</b>				
△ Consults				
	 Cardiac Rehab is indicated for the following diagnoses: 1. Coronary Artery Bypass Graft (CABG) 2. Percutaneous Coronary Intervention (PCI, or PTCA) 3. ST elevation Myocardial Infarction (STEMI) 4. Non-ST elevation Myocardial Infarction (NSTEMI) 5. Heart Transplant 6. Valve Replacement (Surgical or Percutaneous, including TAVR) 7. Valve Repair (Surgical or Percutaneous, including Valvotomy or Valvuloplasty) 8. Stable Angina 9. Stable, Chronic Congestive Heart Failure with systolic dysfunction (NOT FOR HOSPITALIZED PATIENTS) 10. Other cardiac diagnoses may be covered by non-Medicare insurers			
<input type="checkbox"/>	  Cardiac Rehab Referral			
<input type="checkbox"/>	  Cardiac Rehab Contraindicated			

# Cardiac Rehab Referral Order Process

Once a provider selects the referral order, they have an option to complete the rehab form

The screenshot shows a Cerner alert window titled "Cardiac Rehab Referral Order" with a timestamp of "12/09/2021 17:48 EST". The window contains the Cerner logo and a message: "To complete the cardiac rehab referral, click on the 'Card Rehab' button on the bottom left corner to launch the Cardiac Rehab Referral PowerForm. To exit out of this window without ordering cardiac rehab, check the 'Cancel' box and click the 'OK' button." Below the message is an "Alert Action:" section with a checkbox labeled "CANCEL Cardiac Rehab Referral". At the bottom of the window, there are two buttons: "Card Rehab" on the left and "OK" on the right. A red arrow points to the "Card Rehab" button.

# Cardiac Rehab Referral Form For Provider

Provider fills out the form to create referral order

**Cardiac Rehab Referral**

Performed on: 12/09/2021 15:12 EST By: Patel, Guru S

**Primary Diagnosis during recent hospitalization or within the past 12 months**

- Coronary Artery Bypass Graft (CABG)
- Percutaneous Coronary Intervention (PCI, or PTCA)
- ST Elevation Myocardial Infarction (STEMI)
- Non-ST Elevation Myocardial Infarction (NSTEMI)
- Heart transplant
- Valve Replacement (Surgical or Percutaneous, including TAVR)
- Valve Repair (Surgical or Percutaneous, including Valvotomy or Valvuloplasty)
- Stable Angina** (Different insurers vary in their definition of stable angina. You may be contacted later by cardiac rehab staff to provide additional details)
- Stable, Chronic Congestive Heart Failure (NOT FOR HOSPITALIZED PATIENTS)
- Other

**Regarding Stable Chronic Congestive Heart Failure as a Primary Diagnosis**  
Choose this option only if all of the following Medicare Reimbursement Criteria are met:  
- Patient is not currently hospitalized  
- Patient has not had a cardiovascular hospitalization or procedure within the last six weeks  
- Patient has EF less than or equal to 35%  
- NYHA class II, III, or IV symptoms despite being on optimal heart failure therapy for at least 6 weeks

**NYHA symptom class** [Dropdown] **Most recent EF** [Input] **Does the patient have a VAD?**  Yes  No

**Please select corresponding ICD-10 Code**

<b>Coronary Artery Bypass Graft (CABG)</b>	<b>Valve Replacement (Surgical or Percutaneous, including TAVR)</b>
[Dropdown]	[Dropdown]
<b>Percutaneous Coronary Intervention (PCI or PTCA)</b>	<b>Valve Repair (Surgical or Percutaneous, including Valvotomy or Valvuloplasty)</b>
[Dropdown]	[Dropdown]
<b>ST elevation Myocardial Infarction (STEMI)</b>	<b>Stable Angina</b> [Dropdown]
[Dropdown]	[List of ICD-10 codes for Angina]
<b>Non-ST elevation Myocardial Infarction (NSTEMI)</b>	
[Dropdown]	
<b>Heart Transplant</b>	
[Dropdown]	

**If none of the above diagnoses apply please enter other Primary Diagnosis Plus the Primary ICD-10 Code here**

[Text Input]

**NOTES:**  
- You may be contacted later by cardiac rehab staff to provide diagnosis codes related to conditions that led to the valve repair.  
- Different insurers vary in their definition of stable angina. You may be contacted later by cardiac rehab staff to provide additional details.  
- To use this code, patient must have stable, chronic heart failure (not acute heart failure), and heart failure must be with reduced systolic function (not isolated diastolic heart failure).

**ATTENTIONS:**

In Progress

# Cardiac Rehab Contraindications

For patients where rehab is contraindicated, provider must select one of the choices

The screenshot displays a medical software interface for a 'Cardiac Rehab Referral (Initiated Pending)'. The interface includes a table with columns for Component, Status, Dose, and Details. Under the 'Consults' section, a list of 10 diagnoses is provided, indicating when cardiac rehab is indicated. Below this, a list of order types is shown, with 'Cardiac Rehab Contraindicated' selected. A red arrow points to the 'Order Sentences' section, which lists various contraindications for cardiac rehab.

Component	Status	Dose ...	Details
<b>Cardiac Rehab Referral (Initiated Pending)</b>			
△ Consults			
Cardiac Rehab is indicated for the following diagnoses: 1. Coronary Artery Bypass Graft (CABG) 2. Percutaneous Coronary Intervention (PCI, or PTCA) 3. ST elevation Myocardial Infarction (STEMI) 4. Non-ST elevation Myocardial Infarction (NSTEMI) 5. Heart Transplant 6. Valve Replacement (Surgical or Percutaneous, including TAVR) 7. Valve Repair (Surgical or Percutaneous, including Valvotomy or Valvuloplasty) 8. Stable Angina 9. Stable, Chronic Congestive Heart Failure with systolic dysfunction (NOT FOR HOSPITALIZED PATIENTS) 10. Other cardiac diagnoses may be covered by non-Medicare insurers			
<input type="checkbox"/>			Cardiac Rehab Referral
<input checked="" type="checkbox"/>			Cardiac Rehab Contraindicated

**Order Sentences**

Order sentences for: Cardiac Rehab Contraindicated

- (None)
- Acute or decompensated heart failure, .
- Contagious infectious diseases, .
- Metastatic malignancy, .
- Neurologically impaired (dementia, etc.), .
- Uncontrolled/brittle diabetes, .
- Unstable aneurysms, .
- Untreated end stage renal failure, .
- Other

# Completed Communication Power Form

## Cardiac Rehabilitation: Communication Power Form

The screenshot displays a web-based form titled "Pre Cardiac Rehab Patient Contact". The form is divided into several sections:

- Header:** "Pre Cardiac Rehab Patient Contact" with a green background.
- Text:** "Emory Healthcare's Cardiac Rehabilitation Program received an electronic order and has attempted to schedule a cardiac rehabilitation appointment." (highlighted in yellow).
- Form Fields:**
  - "Was the patient able to be contacted regarding scheduling Cardiac Rehab?" with radio buttons for "Yes" (checked), "Unable to Contact Attempt 1", "Unable to Contact Attempt 2", and "Unable to Contact Attempt 3".
  - Instructions: "Check Yes and sign form when all attempts at contacting patient Cardiac Rehab have been completed. This will remove Cardiac Rehab." (highlighted in yellow).
  - Buttons for "Cardiac Rehab Unable to Contact Attempt 1", "Other Cardiac Rehab Unable to Contact Attempt 1", "Cardiac Rehab Unable to Contact Attempt 2", and "Other Cardiac Rehab Unable to Contact Attempt 2".
  - Section: "Pre Cardiac Rehab Interview - TESTPATIENT, SALMON PINK" with a green header.
  - Section: "Pre Cardiac Rehab Requirements" with a yellow background and a list of checkboxes:
    - No stress test or physician follow-up required
    - Stress test required by the physician before starting program, patient notified by our office, but patient has not scheduled stress test with physician office
    - Stress test required by the physician before starting program, patient notified by our office, but patient does not want to have a stress test
    - Stress test completed and reviewed
    - A follow up outpatient physician office visit is required prior to starting cardiac rehabilitation
    - Patient instructed to call Emory Cardiac Rehab Program at 678-843-7533 after stress test is complete
  - Section: "Patient To Participate in Cardiac Rehab Program" with a dropdown menu.
  - Section: "Cardiac Rehab Appt Scheduled" with a date field and a dropdown menu.
  - Section: "Cardiac Rehab Appt Scheduled" with a date field and a dropdown menu.

# Completed Documentation in Cerner Note

The screenshot displays the Cerner EHR interface. On the left is a navigation menu with options like 'Plan of Care Inpatient', 'Results Review', 'IView', 'Medication List', 'Orders', 'Orders Summary', 'Problems and Diagnoses', 'Document Viewing', 'Clinical Notes', 'Allergies', 'Clinical Trials', 'Correspondence', and 'Discern Advisor CathPCI Form Bro...'. The 'Clinical Notes' section is highlighted. The main area shows a tree view of 'Documents by Specialty' under 'Cardiology' and 'CARDS Cardiac Rehab'. Two documents are listed: '2/29/2016 17:49 Sloan, Stephanie - "Cardiac Rehab Referral"' (highlighted) and '2/29/2016 15:52 Sloan, Stephanie - "Cardiac Rehab Referral"'. The right pane shows the details for the selected document.

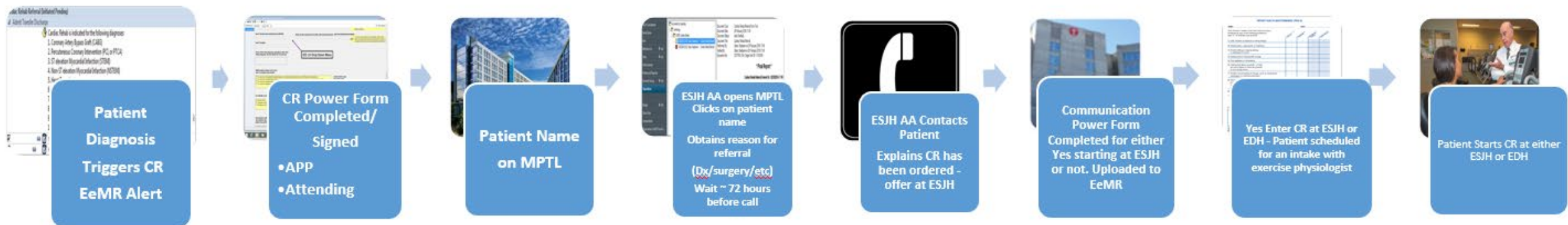
Document Type: Cardiac Rehab Referral Form-Text  
Document Date: 29 February 2016 17:49  
Document Status: Auth (Verified)  
Document Title: Cardiac Rehab Referral  
Performed By: Sloan, Stephanie on 29 February 2016 17:49  
Verified By: Sloan, Stephanie on 29 February 2016 17:49  
Encounter info: 2237798, EUH, Single Visit OP, 1/15/2016 -

**\* Final Report \***

Cardiac Rehab Referral Entered On: 02/29/2016 17:49  
Performed On: 02/29/2016 17:49 by Sloan, Stephanie

**Cardiac Rehab Referral**  
*Primary Diagnosis Requiring Cardiac Rehab:* Coronary Artery Bypass Graft (CABG)  
*CABG ICD-10 Req Cardiac Rehab:* Z95.1: Prior CABG  
*Cardiac Rehab Stress Test Required:* No, a stress test is not required before entering the program  
rate range of 20-30 bpm above resting heart rate  
*Cardiac Rehab Time Frame:* Less than 2 weeks  
*This physician verifies that this patient should be enrolled in Phase 2 Cardiac Rehabilitation and co  
necessary. Once Phase 2 is complete, the patient may participate in a Phase 3 or 4 program if des*

# Workflow



If patient does not want CR at ESJH or EDH – 40 Regional CRP Documentation in Communication Power Form – External CRP Contact Information Given to Patient



# Communication

## Cardiac Rehabilitation: Communication Power Form

**Pre Cardiac Rehab Patient Contact**

Emory Healthcare's Cardiac Rehabilitation Program received an electronic order and has attempted to schedule a cardiac rehabilitation appointment.

Was the patient able to be contacted regarding scheduling Cardiac Rehab?

Yes  Unable to Contact Attempt 3  
 Unable to Contact Attempt 1  
 Unable to Contact Attempt 2

Check Yes and sign form when all attempts at contacting patient. Cardiac Rehab have been completed. This will remove Cardiac Rehab from the patient's chart.

**Pre Cardiac Rehab Interview - TESTPATIENT, SALMON PINK**

**Pre Cardiac Rehab Interview**

**Pre Cardiac Rehab Requirements**

No stress test or physician follow-up required  
 Stress test required by the physician before starting program, patient notified by our office, but patient has not scheduled stress test with physician office  
 Stress test required by the physician before starting program, patient notified by our office, but patient does not want to have a stress test  
 Stress test completed and reviewed  
 A follow up outpatient physician office visit is required prior to starting cardiac rehabilitation  
 Patient instructed to call Emory Cardiac Rehab Program at 678-843-7633 after stress test is complete

**Cardiac Rehab Unable to Contact Attempt 1**

**Other Cardiac Rehab Unable to Contact Attempt 1**

**Cardiac Rehab Unable to Contact Attempt 2**

**Other Cardiac Rehab Unable to Contact Attempt 2**

**Patient To Participate in Cardiac Rehab Program**

**Cardiac Rehab Appt. Scheduled**  **Cardiac Rehab Appt. Scheduled**