

# Cardiac Telemetry Monitoring Transformation

## Go-Live March 18, 2013

### Indication & Duration Specific Orders & Task

Goal: To provide safe & appropriate utilization of Cardiac Telemetry Monitoring for the **Right** indication and **Right** duration

Changes include:

- Cardiac Telemetry Monitoring orders based on indication and duration

The screenshot displays the Careset Cardiac Telemetry Monitoring interface. At the top, patient information is shown: DOGG, SNOOP, Age: 62 years, Gender: Male, Type: Inpatient, DOB: 09/20/1950, Fin#: 2500003555, Loc: C5A, ZZZZ, B, MRN: 1500002645. Below this is a table of orders with columns for Component and Order Details. A yellow box highlights a specific order: Cardiac Telemetry Monitoring. (Stroke), which is checked. A callout bubble points to the 'Off Monitor Status' field in the details view, which is set to 'May be off monitor for tests/procedures'. Another callout bubble points to the 'Detail values' field, which contains 'Must remain on monitor at all times'. The interface also shows a 'No Results' section and a 'Details for Cardiac Telemetry Monitoring. (Stroke)' section with tabs for 'Details' and 'Order Comments'.

Component	Order Details
Telemetry monitoring ordered for the following indications will be discontinued after 48 hours unless a change in the patient's clinical condition supports continuation.	
<input type="checkbox"/> Cardiac Telemetry Monitoring. (Acute Myocardial Infarction)	Indication for Telemetry: Acute Myocardial Infarction
<input type="checkbox"/> Cardiac Telemetry Monitoring. (CHF(Acute and Subacute))	Indication for Telemetry: CHF(Acute and Subacute)
<input type="checkbox"/> Cardiac Telemetry Monitoring. (Complex Major Surgery)	Monitor for 48 HR, Start Date/Time: 01/23/2013 12:33, Stop: 01/25/2013 12:32
<input checked="" type="checkbox"/> Cardiac Telemetry Monitoring. (Stroke)	May be off monitor for tests/procedures, Monitor for 48 HR, Start Date/Time: 01/23/2013 12:34, Stop: 01/25/2013 12:33
<input type="checkbox"/> Cardiac Telemetry Monitoring. (Syncope with Suspected Arrhythmia)	Indication for Telemetry: Syncope with Suspected Arrhythmia
<input type="checkbox"/> Cardiac Telemetry Monitoring. (Thoracic Surgery (Non Cardiac))	Indication for Telemetry: Thoracic Surgery (Non Cardiac)
Telemetry monitoring ordered for the following indications will be discontinued after 24 hours unless a change in the patient's clinical condition supports continuation.	
<input type="checkbox"/> Cardiac Telemetry Monitoring. (Chest Pain/Rule Out MI)	Indication for Telemetry: Chest Pain/Rule Out MI
<input type="checkbox"/> Cardiac Telemetry Monitoring. (Major Surgery)	Indication for Telemetry: Major Surgery
<input type="checkbox"/> Cardiac Telemetry Monitoring. (Nonurgent PCI)	Indication for Telemetry: Nonurgent PCI
<input type="checkbox"/> Cardiac Telemetry Monitoring. (PPM/ICD Lead Implant)	Indication for Telemetry: PPM/ICD Lead Implant
<input type="checkbox"/> Cardiac Telemetry Monitoring. (Syncope of Truly Unknown Origin)	Indication for Telemetry: Syncope of Truly Unknown Origin
<input type="checkbox"/> Cardiac Telemetry Monitoring. (Uncomplicated Ablation of an Arrhythm)	Indication for Telemetry: Uncomplicated Ablation of an Arrhythm
<input type="checkbox"/> Cardiac Telemetry Monitoring. (Other Indication)	
Telemetry monitoring ordered for the following indications will continue until stopped by the ordering provider.	
<input type="checkbox"/> Cardiac Telemetry Monitoring. (Cardiac Surgery During this Admission)	Indication for Telemetry: Cardiac Surgery During this Admission
<input type="checkbox"/> Cardiac Telemetry Monitoring. (Complex Cardiac Disorders-Cardiologists)	Indication for Telemetry: Complex cardiac disorders-cardiologists
<input type="checkbox"/> Cardiac Telemetry Monitoring. (Lifestev)	Indication for Telemetry: Lifestev

**On/Off Monitor status required**

## Level B Medications

- Medications with Cardiac Telemetry requirements and optional recommendations
- Patient will receive 24 hours of cardiac telemetry monitoring

No Warning for Cardiac Telemetry required

Prescriber may choose to order

Examples:  
Hydralazine Inj

Cardiac Telemetry Monitoring **REQUIRED** warning

Alert will fire to the prescriber and an order for cardiac telemetry will be placed for 24 hours then reassessed

Examples:  
Amiodarone inj  
Diltiazem inj  
Dobutamine  
Verapamil Inj

Cardiac Telemetry Monitoring **OPTIONAL** warning

Alert will fire to the prescriber, and the prescriber can decide if monitoring is needed

Examples:  
Labetalol, Inj  
Metopropol, Inj  
Propranolol, Inj

Alert message will appear if Telemetry is “Needed” or “May be Needed”

Discern: (1 of 1)

**Telemetry Order Is Needed**

Patient does not have a current order for telemetry.

The medication(s) DOBUTamine (Dobutrex) **requires** 24 hours of monitoring upon initiation. A new telemetry order will be generated.

OK

Discern: (1 of 1)

**Telemetry Order May be Needed**

Patient does not have a current order for telemetry.

The medication(s) meTOPROLOl (Lopressor) Inj *may* require 24 hours of monitoring upon initiation based upon patient condition.

Mark the order below if you wish to order telemetry for this patient.

Add Order for:

Telemetry for Administration of Antiarrhythmic Drug

OK

Changes to the Cardiac Telemetry monitoring requirement/recommendations have been incorporated into the CCHS Formulary (medication reference resource).

Cardiac Telemetry Assessment form will help guide nurses for safe discontinuation of the monitor or the need for further provider evaluation.

**Cardiac Telemetry Assessment**

This patient is due to have monitoring discontinued per protocol in 1 hour. Many patients who are started telemetry monitoring have no clear indication for continued monitoring. But a significant change in clinical status could change that; as always, clinical judgment should prevail.

Vitals	BP	Pulse	RR
02/13 13:25	150/100	88	22
OCHS_ORVM_TLMY_SM_TMPL			

**Vital Signs Documented Within the Past 8 Hours**

**Vital Signs Obtained Within the Past 1 Hour**

- Blood Pressure: 150 mmHg / 100 mmHg
- Pulse: 88 bpm
- Respiratory Rate: 22 br/min

**Within the past 8 hours, has your patient had:**

- Systolic blood pressure under 95 mmHg:  Yes  No
- Heart rate >120 or <45 beats per minute:  Yes  No
- Respiratory rate >28 or <8:  Yes  No
- A significant change in clinical status with serious arrhythmias or clinical deterioration:  Yes  No

OK to remove telemetry and CMR has been notified

If patient does not meet criteria for safe discontinuation a message will appear for the nurse to contact the provider for further evaluation.

**Within the past 8 hours, has your patient had:**

- Systolic blood pressure under 95 mmHg:  Yes  No
- Heart rate >120 or <45 beats per minute:  Yes  No
- Respiratory rate >28 or <8:  Yes  No
- A significant change in clinical status with serious arrhythmias or clinical deterioration:  Yes  No

Patient does not meet criteria to automatically discontinue telemetry. Contact physician to evaluate need for new order.

### Additional task for the nurse to follow-up with the Provider

**Cardiac Telemetry Follow Up**

Contact provider to discuss patient's assessment results and determine need for new order.

- Provider Contacted:
- Cardiac Telemetry Follow Up:
  - New order obtained for cardiac telemetry
  - No further need for Cardiac Telemetry

## For More Information, Contact:

- Andrew J. Doorey, MD, FACC, *Attending Physician, Christiana Care Cardiology Consultants*
- Robert Dressler, MD, MBA, *Vice-Chair and Director of Patient Safety, Quality and PI, Dept of Medicine*
- Tamekia L. Thomas, MSN, RN, PCCN, *Critical Care Educ. Coord. Nursing Educ. & Dev*
- Susan C. Felicia, RN, BSN, AAS, PCCN, *5E Staff Dev Specialist*
- Meredith Hollinger, PharmD, *Clinical Pharmacy Specialist, Cardiology, Pharmacy*
- Joyce Witkowski, RN, *Senior Clinical Analyst, Information Technology*
- Sharon Kleban, *Senior Systems Analyst, Information Technology*