

Telemetry Safety Bundle: Practice Standards & Communication

<u>Purpose</u>: The Telemetry Safety Bundle will set a standard of care for HCA Healthcare Divisions and Facilities that provide telemetry monitoring of heart rhythms for patients.

Scope: This guidance applies to all patients requiring ECG monitoring via wireless telemetry and not intended for bedside or holter monitoring.



Responsibility: Telemetry monitoring must administered under physician/provider order and placed on a patient within 30min of arrival. Furthermore, the temporary interruption (bathing, cleaning, etc.) and discontinuation must also be permitted only under the order of a physician/provider.

Considerations: Telemetry monitoring must be further administered by trained individuals, who are competent in the application/maintenance of telemetry devices as well as cardiac monitoring and rhythm interpretation.

<u>Accuracy</u>: Accurate electrode placement cannot be overemphasized as essential to the accurate identification of monitored rhythms. For arrhythmia monitoring, V1 is commonly utilized because of its helpfulness in distinguishing Ventricular Tachycardia from aberrancy (wideatrial tachycardia).

Staff Roles and Responsibilities

Registered Nurses

Ensure patient is appropriately monitored at all times. If RN chooses to delegate any element of responsibility, tasks must be performed by a caregiver who has documented &demonstrated competency.

- ✓ Telemetry must be placed on patient within
 30 minutes of newly admitted/transferred patient.
- Telemetry patients should not travel off telemetry or off the unit without an RN, unless authorized by a physician/provider order.
- Telemetry application should be performed with 2 patient identifiers, telemetry box number, and rhythm transmission confirmation completed by RN.
- ✓ Notification and confirmation of telemetry monitoring should be documented by the RN as "Initiation of Cardiac Telemetry Monitoring" in the Manage/Refer/Contact/Notify screen within the EHR.
- ✓ For continuous monitoring, ensure that ECG electrodes are changed every 48 hours.
- ✓ Interpretation will be documented by the RN, no less than once per shift.

Telemetry Technicians

- Ensure telemetry boxes are cleaned and lead wires are free of damage.
- Upon transmission confirmation from RN, a printed strip will be completed and provided for initial cardiac rhythm interpretation.
- ✓ Notify Primary RN promptly of rhythm changes and/or alarms requiring intervention. Document method of notification and time of alarm resolution.
- Record alarm notification and communication in a facility-specific Telemetry Notification Log.
- Ensure that all ECG leads are connected at all times.
- Ensure immediate notification of battery changes as soon as screen displays low battery warning.
 Most devices only have 1 hour remaining once warning is displayed on screen.
- Customization of alarm settings outside of default parameters is only permitted with a provider order.
- Ensure by verbal or written communication with RN that temporary discontinuation of telemetry has been approved with physician/provider order.
- Maintain constant count of available telemetry boxes and those assigned to patients.

See back for additionalinformation



Communication Escalation Matrix

Alert Type	Agent	Documentation of Notification	Documentation of Response/ Resolution (close the loop)	Communication	Tracing/ Retrieving	Technology
Leads off - signal <u>still</u> transmitting Leads off - tele <u>NOT</u> transmitting	Telemetry Tech Primary RN	M/R/C/N screenby Telemetry	M/R/C/Nscreen by RN	Phone call/iMobile	EHR	EHR
	Telemetry Tech	Tech		Phone		
	Primary RN		M/R/C/Nscreen by RN	call/iMobile If <u>unanswered</u> via standard escalation pathway - Call "Telemetry Alert"	EHR	EHR
	,					
	Charge RN	M/R/C/Nscreen				
	Response Team	by Telemetry Tech				
Battery	Telemetry Tech	M/R/C/N	M/R/C/Nscreen by RN	Phone call/iMobile	EHR	EHR
	Primary RN	screenby Telemetry Tech				
Non-Lethal Rhythm	Telemetry Tech		M/R/C/N screen byRN	Phone call/iMobile	EHR	EHR
	Primary RN	M/R/C/N				
	Charge RN	screenby Telemetry Tech	RNNotifies Provider	If <u>unanswered</u> – Call a"Telemetry Alert" or "Rapid Response"		
Lethal Rhythm	Telemetry Tech	M/R/C/N screen by Telemetry Tech	M/R/C/Nscreen by RN	CallaCode	EHR	EHR
	Primary RN					
	Charge RN			AND		
	Code Team		RN Notifies Provider	Phone call/iMobile		

Telemetry Notification and EscalationPathways:

- Monitoring Telemetry Technicians should notify the Primary RN promptly of any cardiac arrhythmias, rhythm changes, and/or alarms requiring intervention.
- Rhythm changes, life-threatening arrhythmias, and/or loss of signal will be responded to in an immediate manner.
 - Record of alarm notifications & communications should be captured by the Telemetry Technician on the facility-specific Telemetry Notification Log, and documented by the RN in the Manage/Refer/Contact/Notify screen in EBCD.
 - The Manage/Refer/Contact/Notify screen is not an assessment screen, therefore provisioning of Telemetry Technicians is an option.
- Defined communication escalation pathways should be utilized to ensure timely notification and treatment as indicated.
 - Use of overhead paging as an escalation strategy should follow facility-specific policy.
 - Overhead paging can be a minimally effective intervention, and should be used as a last line of defense.
- If an alert exceeds the third level of the defined escalation pathway or remains unmanaged, a "Near Miss" should be reported and investigated per facility specific procedures.



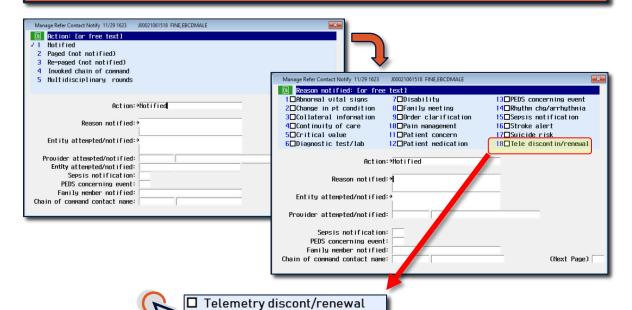


Telemetry Safety Bundle: Documentation Changes

RN Documentation of Telemetry Start Initiation - Current State

Manage Refer Contact Notify 12/09 1053	J00021061518 FINE,EBCDMALE	E					
Entity attempted/notified:	[or free text]						
l□Assisted living facility	7□Court representative	13□Infection control					
2□Case management	8□Employer representative	14□Law enforcement					
3□Child protective services	9□Environmental services	15□Listed emergency contact					
4□Cardiac rehab	10□Family member	16□Meals on wheels					
5□Chaplain	11□Funeral home	17□Mental health therapist					
6□Coroner	12☐Home health	18□or <f9> For More Options</f9>					
Action:⇒Notified							
Reason notified:	→Telemetry start confirmed	Free text entries					
Entity attempted/notified:	⇒Telemetry Tech - Stefanie Fi	ne Free text entries					
Provider attempted/notified:							
Sepsis notification: PEDS concerning event:							
Family member notified:		<u> </u>					
Chain of command contact name:		(Next Page)					

RN Documentation of Telemetry Start Initiation – <u>Future</u> Changes (Anticipated with 2021.2 release)

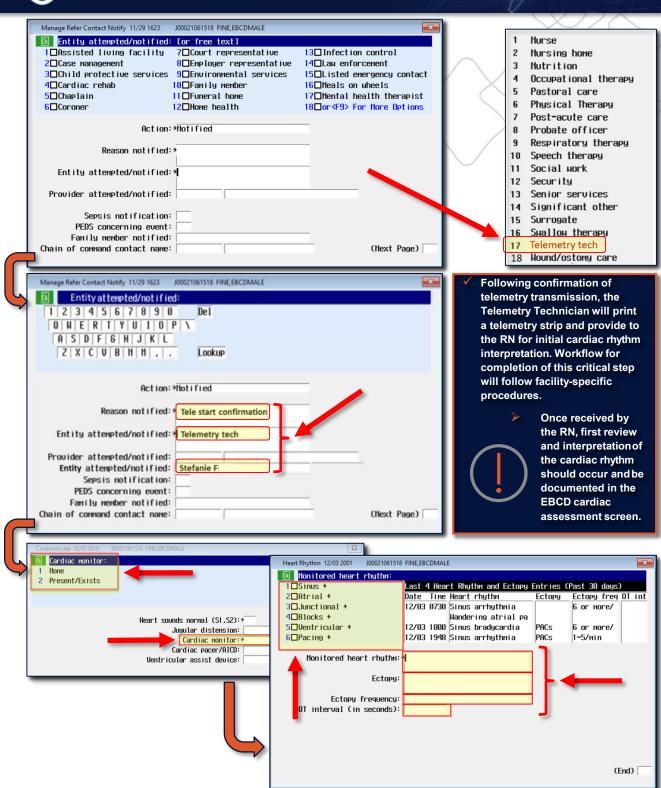




□ Telemetry start confirmation

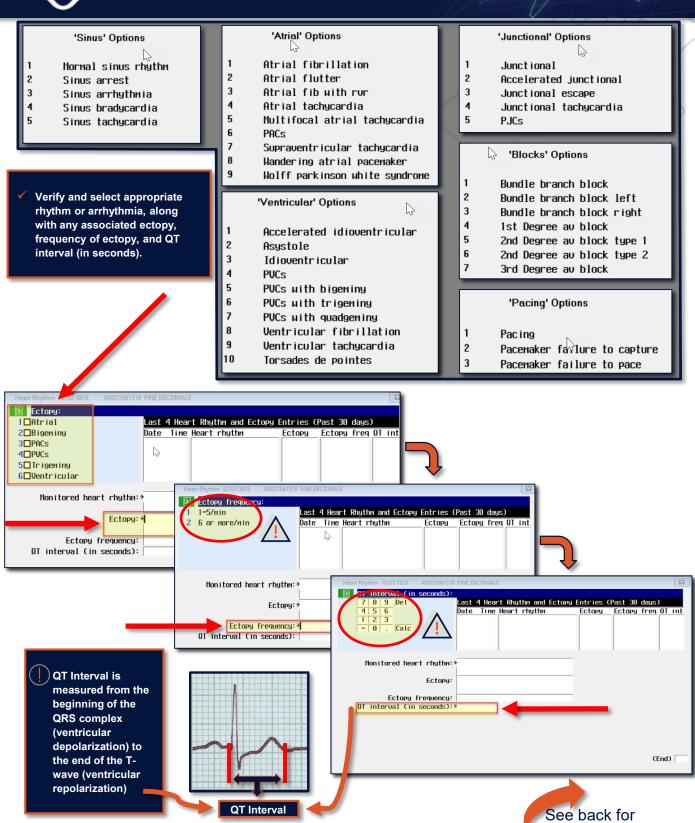


Documentation – Notification





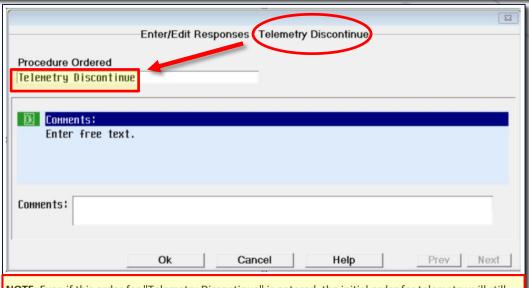
Documentation – Cardiac Rhythm





Documentation – Telemetry Discontinue

Remember to manually discontinue patient from telemetry



NOTE: Even if this order for "Telemetry Discontinue" is entered, the initial order for telemetry will still be active until manually discontinued by a nurse/provider.

Integration of Telemetry Reporting into Safety Huddle

- Effectively discussing cardiac telemetry monitoring at facility safety huddle can assist in preventing serious safety events.
- Integration into facility safety huddles will present an opportunity to validate appropriate and safe monitoring practices, thus helping to prevent serious safety events.
- > Safety huddle reporting of Telemetry can easily be integrated using the "STEPS" framework.

*	-S-	-T-	-E-	-P-	-s- ▼
	Safety Events	Throughput	Environment/Exposure	People	Service Recovery
✓	Alerts without a response	✓ Telemetry monitor box	✓ Rooms/areas/	✓ Telemetry	✓ Interdisciplinary issues regarding
✓	Missed telemetry order	capacity Missing	experiencing a lapse in remote telemetry	Technician Staffing	monitoring –MD, PT/OT, RN, etc.
√	Lapses in Monitoring	telemetry box(es)	monitoring		