## WORK INSTRUCTION

Franciscan Health System

R-W-AD-0597-00

# CRITICAL VALUES – FIRST CRITICAL TROPONIN OR CK-MB

St. Clare Hospital Lakewood, WASt. Anthony Hospital Gig Harbor, WA

St. Elizabeth Hospital Enumclaw, WA□ PSC

## **PURPOSE**

To provide instructions for calling critical troponin (TnI) and/or CK-MB results when the Tni and/or CK-MB are critical for the first time during an encounter, or if the patient had prior critical levels but they had returned to baseline and are now critical again.

#### **BACKGROUND**

"Fliers" are false positive results due to fibrin strands that form when tubes aren't properly mixed at the time of the blood draw. While rare (~0.007%), these fliers occur during the first (and sometimes second) immunoassay performed on the DXI and Access, which is often a troponin and/or a CK-MB and can cause critically high results. Thus, all first time critical TnI and CK-MB values must be confirmed by re-spinning and re-running the specimen to ensure accurate results.

#### RELATED DOCUMENTS

R-PO-AD0551 Critical Value Policy – Laboratory

R-PR-AD0550 Critical Value Process
R-W-CH1825 DXI & Access CK-MB
R-W-CH1826 DXI & Access Troponin
R-PO-AD0730 Error Management Policy

## **STEPS**

# Patient with critically high Tnl and/or CK-MB

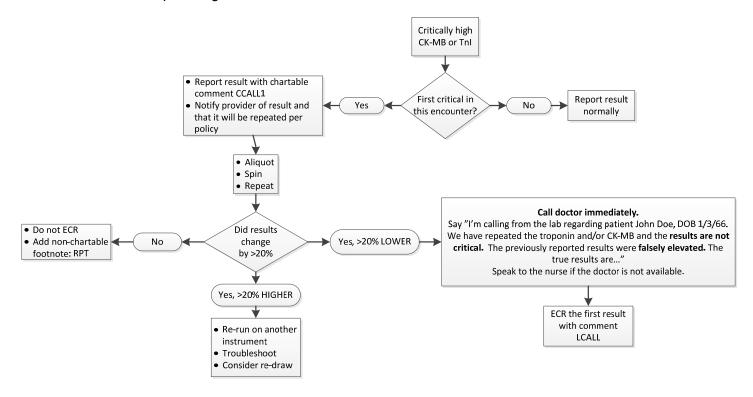
- 1) Check RES for prior results.
- 2) If this is the first critically high TnI and/or CK-MB in this admission or encounter (or if the patient had prior critical levels but they had returned to baseline and now are critical again) proceed with the following:

### First time critically high Tnl and/or CK-MB

- 1) Call the provider and report the results.
- 2) Tell the provider, "per lab policy, all first time critical troponin and CK-MB results are repeated for confirmation. I will notify you if the results are different."
- 3) Aliquot the specimen, spin it, and re-run the assay(s). If possible, begin re-spinning and re-running the specimen as you attempt to call in order to avoid delays. Ask your co-workers for help if necessary. This repeat needs to be done as quickly as possible.

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- 4) Document your critical call in Cerner as chartable comment CCALL1 "CRITICAL VALUE(S) for \_ CALLED/READ BACK to \_ (LOC:\_) at \_ by \_. Per laboratory policy, all first critical troponin and/or CK-MB results will be repeated. The provider will be notified of any discrepant results."
- 5) If the new results increase by more than 20%, there may be an issue with the instrument. Re-run the specimen on a different instrument. Consider asking for a re-draw and/or troubleshooting the instrument to determine the cause.
- 6) If the new results are within 20% and still critical, enter non-chartable comment RPT ("verified by repeat analysis") on TnI and/or CK-MB.
- 7) If the troponin and/or CK-MB repeat testing shows that the true results are not critically high (the results are lower by >20% and there is a change in interpretation (critical to indeterminate or critical to negative), call the <u>doctor</u> immediately and say "I'm calling from the lab regarding patient John Doe, DOB 1/3/66. We have repeated the troponin and/or CK-MB tests and the results are **not critical**. The previously reported results were **falsely elevated**. The true results are ---." Do your best to speak directly with the doctor. If the doctor is unavailable, report the information to the nurse and ask her to notify the doctor immediately.
- 8) Ask for a read back. ECR the first results and footnote chartable comment LCALL "\_\_\_\_ notified with read back at hrs on / / ."
- 9) If you are told that a patient with a flier had an invasive procedure because of the false positive result, call the on call clinical pathologist.



DOCUMENT	APPROVAL	Purpose of I	Document / Reason	for Change:	
New document for new procedure					
☐ No significant change to process in above revision. Per CAP, this revision does not require further Medical Director approval.					
Committee Approval Date	Date: 2/27/1  □ N/A – revision specific document only one facility	of department-	Medical Director Approval (Electronic Signature)	Karie Wilkinson, MD 3/11/14	

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