



TRAINING UPDATE

Lab Location: SGMC & WOMC
Department: Chemistry

Date Distributed: 1/20/26
Due Date: 2/3/26
Implementation: 1/11/26

DESCRIPTION OF PROCEDURE REVISION

Name of procedure:
AHC.L49.22 Data Innovations Instrument Manager
Description of change(s):
Added criteria to examples in Addendum 1 for troponin critical value actions. Added Addendum 7, which details the procedure for reviewing and releasing results on the Atellica that require automatic dilution.

Document your compliance with this training update by taking the quiz in the MTS system.

Addendum 1: Troponin Critical Value Actions

This addendum outlines the required actions for managing critical troponin results within DI (Instrument Manager). Actions depend on whether the result is an initial or subsequent critical value and whether significant change criteria are met. Significant change is determined by delta rules defined in the system

Example 1: Normal troponin

Criteria:

- Normal Troponin

Action:

- None. Result is auto-released by DI.

Specimen Worksheet							Patient Information	
P...	Spec...	Specimen ID	Patient Name	Specimen Comple...	Requested Date/Time /	Collection Date/Time		
► R	020040806	TEST,747		Complete	11/9/2020 4:18:35 PM	11/9/2020 4:16:00 PM		
R	020040807	TEST,747		Tests Held	11/9/2020 4:19:05 PM	11/9/2020 4:17:00 PM		
S	REP-0200...			Tests Held	11/9/2020 4:33:10 PM			

Test Worksheet											
Te...	Test St...	Test N...	Result	Referenc...	Units	Result Date/Time	Test Comment(s)	Error Code(s)	Error Name(s)	Previous...	Previous Result Date/...
*											
► VS1	Releas...	TNIH	50		pg/ml	11/9/2020 4:29:02 PM				2801	11/9/2020 4:05:27 PM

Example 2: First (Initial) Critical Troponin

Criteria:

- First critical Troponin

Action:

- Call the critical result to the provider and document the communication in the Test Comment field according to policy.

Specimen Worksheet						Patient Information	
P...	Spec...	Specimen ID	Patient Name	Specimen Comple...	Requested Date/Time /	Collection Date/Time	
R		D20040806	TEST,747	Complete	11/9/2020 4:18:35 PM	11/9/2020 4:16:00 PM	
R		D20040807	TEST,747	Tests Held	11/9/2020 4:19:05 PM	11/9/2020 4:17:00 PM	
S		REP-0200...		Tests Held	11/9/2020 4:33:10 PM		

Test Worksheet											
Te...	Test St...	Test N...	Result	Referenc...	Units	Result Date/Time	Test Comment(s)	Error Code(s)	Error Name(s)	Previou...	Previous Result Date/...
*											
VS1	Held fo...	TNIH	101		pg/ml	11/9/2020 4:33:02 PM	CBACK-;TESTING 1109 1635 4082	ch,DELTA...	ch, HOLD,DELTA	50	11/9/2020 4:29:02 PM

Addendum 1 continued

Example 3: Second Critical Troponin

Criteria:

- Previous critical value is 101–500 pg/mL
- Current value is not double the previous value

Action:

- Enter TROPC in the Test Comment field and release the result.

Specimen Worksheet						Patient Information		
P.	Spec...	Specimen ID	Patient Name	Specimen Comple...	Requested Date/Time /	Collection Date/Time		
R		020040809	TEST_747	Complete	11/9/2020 4:19:36 PM	11/9/2020 4:18:00 PM		
R		020040810	TEST_747	Tests Held	11/9/2020 4:20:36 PM	11/9/2020 4:18:00 PM		
R		020040566	MARTINEZ, AXEL H	Partial	11/9/2020 4:20:38 PM	11/9/2020 2:41:00 PM		

Test Worksheet											
Te...	Test St...	Test N...	Result	Refere...	Units	Result Date/T...	Test Comment(s)	Error Code(s)	Error Name(s)	Previous...	Previous Result Date/
*											
VS1	Held fo...	TNIH	102		pg/dl	11/9/2020 4:43:30 PM	TROPC	CH	CH, HOLD	101	11/9/2020 4:33:02 PM

Example 4: Third Critical Troponin

Criteria:

- Previous critical value is 101–500 pg/mL
- Current value is twice the previous value
- Error Code displays CALL and Error Name displays CALL TROP

Action:

- Call critical result to the provider and document the communication per policy in Test Comment field.

Specimen Worksheet						Patient Information					
P...	Spec...	Specimen ID	Patient Name	Specimen Comple...	Requested Date/Time /	Collection Date/Time	^				
R		020040810	TEST,747	Complete	11/9/2020 4:20:36 PM	11/9/2020 4:18:00 PM					
R		020040812	TEST,747	Tests Held	11/9/2020 4:20:38 PM	11/9/2020 4:18:00 PM					
Test Worksheet											
Te...	Test St...	Test N...	Result	Refere...	Units	Result Date/Time	Test Comment(s)	Error Code(s)	Error Name(s)	Previou...	Previous Result Date/...
*											
VS1	Held fo...	TNIH	340		pg/ml	11/9/2020 4:45:10 PM	CBACK,-,TESTING 11092020 1645 4082 ~PV	ch,CALL,DELT...	CALL TROP,ch, HO...	102	11/9/2020 4:43:30 PM

Addendum 1 continued

Example 5: Fourth Critical Troponin

Criteria:

- Previous critical value is 101–500 pg/mL
- Current value is not twice the previous value (no significant change)
- A TROPC comment was previously entered within the last 8 hours
- No errors other than the critical flag

Action:

- No action required. DI automatically adds TROPC and releases the result.

No action required. DI automatically adds TROPC and releases the result.						Patient Information	
Specimen Worksheet							
P...	Spec...	Specimen ID	Patient Name	Specimen Comple...	Requested Date/Time /	Collection Date/Time	^
R		020040812	TEST,747	Complete	11/9/2020 4:20:38 PM	11/9/2020 4:18:00 PM	
► R		020040813	TEST,747	Complete	11/9/2020 4:20:38 PM	11/9/2020 4:19:00 PM	

Test Worksheet											
Te...	Test St...	Test N...	Result	Refere...	Units	Result Date/Time	Test Comment(s)	Error Code(s)	Error Name(s)	Previou...	Previous Result Date/...
*											
► VS1	Releas...	TNIH	380		pg/ml	11/9/2020 4:48:36 PM	TROPC		cH, HOLD	340	11/9/2020 4:45:10 PM

Example 6: Fifth Critical Troponin

Criteria:

- Previous critical value is 101–500 pg/mL, but not within significant change criteria
- Current value increased by 250 pg/mL, but previous value is not within the 501–1000 pg/mL range
- No significant change detected
- A TROPC comment exists within the last 8 hours
- No errors other than the critical flag

Action:

- No action required. DI automatically adds TROPC and releases the result.

Specimen Worksheet						Patient Information					
P...	Spec...	Specimen ID	Patient Name	Specimen Comple...	Requested Date/Time /	Collection Date/Time					
R		020040812	TEST,747	Complete	11/9/2020 4:20:38 PM	11/9/2020 4:18:00 PM					
► R		020040814	TEST,747	Complete	11/9/2020 4:21:07 PM	11/9/2020 4:19:00 PM					
Test Worksheet											
Te...	Test St...	Test N...	Result	Refere...	Units	Result Date/Time	Test Comment(s)	Error Code(s)	Error Name(s)	Previou...	Previous Result Date/...
*											
► VS1	Releas...	TNIH	747		pg/ml	11/9/2020 4:49:46 PM	TROPC		cH, HOLD	380	11/9/2020 4:48:36 PM

Addendum 1 continued

Example 7: Sixth Critical Troponin

Criteria:

- Previous critical value is 501 - 1000 pg/mL
- Current value increased by 250pg/mL
- Error Code displays CALL and the Error Name displays CALL TROP

Action:

- Call critical result to the provider and document the communication per policy in Test Comment field

Example 8: Seventh Critical Troponin

Criteria:

- Previous critical value is ≥ 1001 pg/mL
- Current value increased by 1000pg/mL
- Error Code displays “CALL” and the Error Name displays “CALL TROP”

Action:

- Call critical result to the provider and document the communication per policy in Test Comment field

Specimen Worksheet						Patient Information					
P.	Spec.	Specimen ID	Patient Name	Specimen Comple...	Requested Date/Time /	Collection Date/Time					
S		020040608	SLATER,ANTHONY	Complete	11/9/2020 4:40:09 PM	11/9/2020 4:12:00 PM					
R		020040898	TEST,747	Tests Held	11/9/2020 4:41:58 PM	11/9/2020 4:23:00 PM					
Test Worksheet											
Te...	Test St...	Test N...	Result	Ref...	Units	Result Date/Time	Test Comment(s)	Error Code(s)	Error Name(s)	Previous...	Previous Result Date/...
*											
VS1	Held fo...	TNIH	2020		pg/ml	11/9/2020 5:01:45 PM	CBACK-; TEST TESTING 11092020 1704 4082 ~RTV	ch,CALL,DELTA...	CALL TROP,ch, HOLD...	1000	11/9/2020 4:58:44 PM

Addendum 7: Preliminary vs Final Diluted Value (Atellica Only)

Certain Atellica assays require automatic dilution when the initial (preliminary) result exceeds the instrument's measurable range. DI displays specific error messages to guide technologists through the review and release process.

1. Preliminary Dilution Message

When the Atellica generates an initial result that requires dilution, the preliminary value is transmitted to DI with the following error code: **“Test being diluted. Wait for final diluted value.”** This indicates that the instrument has automatically initiated the dilution process, and the result is not final.

Specimen Worksheet									
P...	Spec...	Specimen ID	Patient Name	Specimen Comple...	Requested Date/Time /	Collection Date/Time			
▶		YY1		Tests Held	7/30/2021 8:01:25 AM				
Test Worksheet									
Test In...	Test St...	Test Name	Result	Refere...	Units	Result Date/Time	Test C...	Error Code(s)	Error Name(s)
*									
▶	SA11	Held fo...	HCG	> 1000.0		7/30/2021 8:01:25 AM		Test being diluted. Wait for final diluted value.	Test being diluted. V

2. Final Dilution Message

After the instrument performs the recommended dilution:

- If the diluted value falls within the clinically reportable range, the final result is transmitted normally.
- If the recommended dilution still does not produce a reportable value, the system displays: **“Final Dilution. Release result.”** This message indicates that the instrument has completed all appropriate dilution steps, and the final diluted value is ready for release

Specimen Worksheet						
P...	Spec...	Specimen ID	Patient Name	Specimen Comple...	Requested Date/Time /	Collection Date/Time
		YY3		Tests Held	7/30/2021 8:13:28 AM	
▶		YY6		Tests Held	7/30/2021 8:44:45 AM	

Test Worksheet								
Test In...	Test St...	Test Name	Result	Refere...	Units	Result Date/Time	Test C...	Error Code(s)
*								
▶	SA11	Held fo...	HCG	> 200000.0		7/30/2021 8:44:45 AM		Final dilution. Release result

3. Required Technologist Actions

Once both preliminary and final diluted values appear in DI:

- Release the final diluted result only.
- Reject the preliminary result.
- Do not release both results, as this will cause incorrect reporting in Sunquest.