

Order Names in Cerner:

Troponin hs 0hr (reflex to 2hr, 4hr) (ED)
Troponin hs 0hr + 2hr (reflex to 4hr)
Troponin hs one-time

Result Field names (DTAs) in Cerner:

Troponin High Sensitivity
2 hr Delta Troponin High Sensitivity
4 hr Delta Troponin High Sensitivity

Significant range of delta's troponin results values

hsTrop 0hr (baseline)	Delta Result Field	Significant Delta from baseline
<100 ng/L	2 hr Delta Troponin High Sensitivity	≥ 10 ng/L
	4 hr Delta Troponin High Sensitivity	≥ 15 ng/L
≥100 ng/L	2 hr Delta Troponin High Sensitivity	≥ 10 %
	4 hr Delta Troponin High Sensitivity	≥ 15 %

Order Name	Trop 0hr order	Reflex Logic on Trop 0hr	Trop 2hr order	Reflex Logic on Trop 2hr	Trop 4hr order	Hard Stop/Rule	Action
Troponin hs 0hr (reflex to 2hr, 4hr) (ED)	Trop hs 0hr	Male: <5 ng/L Female: <5 ng/L	N/A	N/A	N/A	Within 24 hr from original order dt/tm (excludes canceled orders)	Display alert displaying the original order dt/tm, result values and scheduled orders. Also saying if Trop one time is available, if needed
		Male: 5-34 ng/L Female: 5-13 ng/L	Trop hs 2hr (post 2 hr based on Trop hs 0hr collect dt/tm)	Δ <5 ng/L	N/A		
		Male: >34 ng/L Female: >13 ng/L	Trop hs 2hr (post 2 hr based on Trop hs 0hr collect dt/tm)	Δ ≥5 ng/L	Trop hs 4hr (post 2 hr based on Trop hs 2hr collect dt/tm) Trop hs 4hr (post 4 hr based on Trop hs 0hr collect dt/tm) Trop hs 4hr (post 4 hr based on Trop hs 0hr collect dt/tm)		
Troponin hs 0hr + 2hr (reflex to 4hr)	Trop hs 0hr	N/A	Trop hs 2hr (post 2 hr based on Trop hs 0hr collect dt/tm)	Same as above	Same as above		
Troponin hs one time	Troponin hs one time	N/A	N/A	N/A	N/A	N/A	N/A

Result Examples in Powerchart

Male patient – Trop 0hr <100 ng/L

Results	09/22/2022 9:01 EDT	09/22/2022 10:58 EDT	09/22/2022 13:08 EDT
Cardiac Markers			
Troponin High Sensitivity	7	21	42 (H)
2 hr Delta Troponin High Sensitivity		14 (H)	
4 hr Delta Troponin High Sensitivity			35 (H)

Result	Specimen	Action List
Troponin High Sensitivity 7 ng/L (NML)		
Normal Low 5 Normal High 34		
Critical Low Critical High >200		
Date/Time September 22, 2022 9:01 EDT		
Contributor System PowerChart		
Accession Number 000002022265000008		
Service Resource JS Abbott IM Orders		
Status Auth (Verified)		

Result	Specimen	Action List
2 hr Delta Troponin High Sensitivity 14 ng/L (HI)		
Normal Low Normal High <=10		
Date/Time September 22, 2022 10:58 EDT		
Contributor System PowerChart		
Accession Number 000002022265000009		
Service Resource JS Abbott IM Orders		
Status Auth (Verified)		

Result	Specimen	Action List
4 hr Delta Troponin High Sensitivity 35 ng/L (HI)		
Normal Low Normal High <=15		
Date/Time September 22, 2022 13:08 EDT		
Contributor System PowerChart		
Accession Number 000002022265000010		
Service Resource JS Abbott IM Orders		
Status Auth (Verified)		

Sex specific 99% URL –
Male = 35 ng/L
Female = 14 ng/L

Positive predictive value of 70% for MI if baseline ≥ 100 ng/L

if baseline < 100ng/L if baseline ≥ 100 ng/L
Sig. 2h Δ is 10 ng/L Sig. 2h Δ is 10%
Sig. 4h Δ is 15ng/L Sig. 4h Δ is 15%

Male patient – Trop 0hr >100 ng/L

Results	09/22/2022 9:30 EDT	09/22/2022 11:35 EDT	09/22/2022 13:42 EDT
Cardiac Markers			
Troponin High Sensitivity	120 (H)	150 (H)	210 * (H)
2 hr % Delta Troponin High Sensitivity		25 (H)	
4 hr % Delta Troponin High Sensitivity			75 (H)

Result	Specimen	Action List
Troponin High Sensitivity 120 ng/L (HI)		
Normal Low 5 Normal High 34		
Critical Low Critical High >200		
Date/Time September 22, 2022 9:30 EDT		
Contributor System PowerChart		
Accession Number 000002022265000012		
Service Resource JS Abbott IM Orders		
Status Auth (Verified)		

Result	Specimen	Action List
2 hr % Delta Troponin High Sensitivity 25 % (HI)		
Normal Low Normal High <=10		
Date/Time September 22, 2022 11:35 EDT		
Contributor System PowerChart		
Accession Number 000002022265000013		
Service Resource JS Abbott IM Orders		
Status Auth (Verified)		

Result	Specimen	Action List
4 hr % Delta Troponin High Sensitivity 75 % (HI)		
Normal Low Normal High <=15		
Date/Time September 22, 2022 13:42 EDT		
Contributor System PowerChart		
Accession Number 000002022265000014		
Service Resource JS Abbott IM Orders		
Status Auth (Verified)		

