

Subject	RMHLB.100.200 - Critical Lab Results					
Department / Location	Not Set					
Owner	Jerri Frost (Spvr - RMH Lab)					
Reviewer(s)	Mgr - Lab Ops East/South Region, Physician - Lab & Pathology					
Approver(s)	Richland Document Approval, Bruce Wellman (Physician - Lab & Pathology)					
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Additional Scope:						

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Purpose:

To define which verified laboratory test result indicates a severe illness or a life threatening condition. An alert value result requires laboratory staff to initiate notification to the ordering physician, RN, or LPN. Verification by a read back process will be done to assure accuracy and will be documented. All critical results must be communicated within one hour of completion.

Procedure:

- 1. Critical test results will be received by a physician, RN, or LPN. Once received, these telephoned critical test results will be repeated back to the individual relaying the results to verify accuracy
- 2. The read back for critical laboratory results will be documented in the laboratory LIS and include the initials of the provider or nurse and the time.
- 3. Certain tests have standing orders/protocols to direct patient treatment. In these instances, calling the physician is not required

Inpatients:

Report to the patient's attending physician, RN, or LPN

Outpatients:

- Lab staff will notify the physician by telephone. If the physician is not available, laboratory staff will notify the on-call physician covering
- Nursing home and home health patients: Lab staff will notify the responsible agency nursing home of critical Lab results by telephone

<u>Note</u>: Once a physician has been notified of the initial critical result, they may give a specific order to only be notified if a certain level is reached

Laboratory results considered critical: (See next page)

Laboratory Results Considered Critical:

Α.	Ch	nemistry:							
	1	Glucose	< 50.0	> 400.0	mg/dl				
	2	Sodium	< 120.0	> 150.0	MEQ/L				
	3	Potassium	< 3.0	> 6.0	MEQ/L				
	4	Chloride	< 85.0	> 120.0	MEQ/L				
	5	Troponin I		> 0.10	ng/ml				
	6	Therapeutic drugs		above the therapeutic lin	nit				
	7	Calcium	< 7.5	> 12.0	mg/dl				
	8	Magnesium	< 1.0	> 4.0	mg/dl				
	9	Neonatal Bili		> 15.0	mg/dl				
В.	Не	ematology							
	1	WBC	< 2,000.0	> 40,000.0					
	2	HGB	< 7.0		gm/dl				
	3	PLT	< 30,000	>1,5000,000					
C.	M	icrobiology							
	1	Positive Blood culture or CSF culture (on ALL patients)							
	2	Positive CSF Gram Stain (on ALL patients)							
	3	Positive MRSA or VREC cu	ultures	(Inpatients only - Call Nu	rsing Unit)				
	4	Positive CRE	(Inpatients o	only - Call Nursing Unit)					
	5	Positive ESBL	(Inpatients of	only - Call Nursing Unit)					
D.	Bl	Blood Bank							
	1	Positive Direct Coombs on Cord Blood							
	2	Auto or Alloantibodies on Type and Screen							
	3	Incompatible Crossmatch							
E.	ΑE	BG's:							
	1	рН	< 7.25	> 7.55					
	2	PCO2	< 20.0	> 60.0	mmHg				
	3	PO2	< 40.0		mmHg				
F.	Co	pagulation							
	1	PT-INR's:		> 5.0					
	2	PTT		> 150	seconds				

Electronic Approval on File

Larry Zhao, MD Medical Director, CRMH