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Approval and Periodic Review Signatures

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Approval	Reviewed by Laboratory Manager	12/7/2025	20.0	Lia McFarline	

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Employee Initial Review

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Porter Hospital Laboratory, Middlebury, VT 05753; Critical Value Reporting

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GENERAL

PURPOSE

The Critical Value List is a valuable working tool that specifies which tests and ranges of results
constitute a critical value and require immediate notification of the results to the patient's physician. The list has been approved by the pathologist and by the medical staff of UVM Health
Network/Porter Medical Center/Laboratory. The critical values list can be found as APPENDIX
A of this procedure.

RESPONSIBILITY

It is the responsibility of the technician/technologist to:

- Review and verify patient results in a timely manner.
- Notify the physician or appropriate clinical individual of the critical value immediately and document in the computer that notification has been done. *COM.30000*
- If an inpatient has been discharged, notify the ordering physician.
- Notify the "on call" physician during evening, nights, or weekends. As a courtesy to the 'on call' physician, any information on the original order may be useful (home telephone, diagnosis, address), so have the requisition available when you make the call. If the computer has any prior results on the patient, the physician may also be interested in this information.
- Documentation must include the name (first and last name), the credentials and the location of the Physician, or appropriate clinical individual receiving and reading back the results. The date, time, and your name are automatically documented by computer. COM.30100
- Be sure the results are read back to you by the person receiving the results.
- All critical value notifications will be documented in the computer even if the responsible party is not contacted until the next day.
- Faxing and/or printing report to physician or department is not sufficient notification of a critical value
 - There is no guarantee that report will arrive or that anyone will look at the report. You must call and notify a responsible party of critical value.

PROCEDURE

1. If the critical value is obtained on testing performed at UVMH Porter Medical Center Laboratory, perform the following steps:

If	Then
Critical value is obtained in Blood	• Repeat the test(s) using either the primary tube or a new aliquot of
Banking (Antibody Screen POS)	the patient's sample.
Critical value is in Hematology	Rerun well-mixed sample and/or make a second slide and review.
	Analyzer auto reruns.
Critical value in Microbiology,	Recheck labels, reagents, etc. to verify correct patient sample,
Chemistry, Coag. or Urinalysis	correct reagents, etc.
	• It is up to the discretion of Tech and at request of provider, if it is to
	be repeated

2. For both critical values obtained on testing performed at UVMH Porter Medical Center and Reference Laboratories, determine the patient's location for notification and documentation purposes. If the provider works at two different locations, confirm the ordering department prior to making the phone call. When calling the critical value, prior to providing the appropriate clinical individual with result, request their full name (first and last) and credentials.

If	Then
Patient is an in-house patient	 Call the respective in-house department and state you have critical values that need to be relayed to patient's physician. Results must be given to appropriate clinical individual.
Patient is an HPHRC resident	Notify either the primary care physician or the appropriate clinical individual.
Patient has been discharged	Notify the ordering/on-call physician
Patient is an outpatient and it is during normal office	Call office and appropriate clinical individual.
hours	State that the critical values must be brought to the physician's attention immediately
UVMMC Hematology Oncology	Call the office and give critical result information to the appropriate clinical individual or patient access designee.
Patient is an outpatient and it is before/after normal office hours	Notify the physician on-call.

3. Using the **CommLog** function in the LIS - record the name (first and last name), the credentials and the location of the physician or clinical individual receiving and reading back the results. The date, time, and your name are automatically documented by computer.

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4. If notification cannot be completed within 30 minutes-

- a. Technologist should contact call center again for a second page.
- b. If after 2 attempts, there is no response, then they must call the center one more time asking for an additional person on call to be paged.
- c. Lab will make three attempts. If after the third attempt, there has been no call back, please reach out to the Emergency Department and explain your situation and ask for their help with getting ahold of the provider or patient.
- d. Document all attempts in the Comm log and the start time of first phone call to make sure we are in compliance of starting the communication within 30 minutes of receipt of critical.
- 5. NOTE: The exception to this is CSF cell count/differentials may take up to 1 hr. to report.

REFERENCES

• CAP Standards: COM.30000, COM.30100

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REVISION HISTORY

Refer to MediaLab

APPENDICES

• Appendix A: Critical Values Chart

Critical Value Chart

APPENDIX A: Critical Values Chart

Department	Test		Critical – call within 30 minutes		
Blood Bank	Compatibility	I	Any compatibility prob	olems.	
	Transfusion Reactions		Any transfusion reactions indicating incompatibility.		
Chemistry	Acetaminophen		All Ages: ≥150.0 μg/mL		
	Conjugated Bilirubin (Bc)		0-18 yrs	\geq 1.0 mg/dL	
			18 yrs to unspecified	>15.0 mg/dL	
	Calcium		0-1 month	< 6.5 or > 12.0 mg/dL	
			1 month to	< 6.5 or > 11.5 mg/dL	
			unspecified		
	Carbon Dioxi	ide	<10 or >40 mmol/L		
	Creatinine		0-18 yrs	\geq 2.0 mg/dL	
			18 yrs to unspecified	≥15.0 mg/dL	
	Creatinine: D	elta Critical Value	0-18yrs	≥ 0.3 mg/dL higher than previous	
			>18yrs to unspecified	• 5.0 mg/dL with no previous value	
				• 3X higher than the previous (If previous	
				is >1.5mg/dL	
				• $> 4.0 \text{ mg/dL}$ and $> 2.5 \text{ mg/dL}$ higher than	
				previous value	
	Glucose (Seri	um/Plasma)	0-1 day	<40 or >80	
			0 up to 7 days	< 40 or > 180 mg/dL	
			7 days up to 18 yrs	< 50 or > 300 mg/dl	
			18 yrs up to	\leq 55 or $>$ 500 mg/dL	
			unspecified		
	Glucose *Gestational Tolerance test		0 up to 18 yrs	< 50 or > 300 mg/dl	
			10	55 (500 (17	
	Tidhi		18 yrs to unspecified	<55 or >500 mg/dL	
	Lithium		>1.5 mmol/L		
	Magnesium		≤ 1.0 and >4.8 mg/dL >2.00		
	Procalcitonin		>2.00 < 3.0 or ≥6.0 mmol/L		
	Potassium		> 30 mg/dL		
	Salicylate Sodium				
	Total Bilirubin		1 month to	>15 mg/dL	
	Total Billiuolii		unspecified	213 Hig/dL	
	Troponin			Il for first elevated value in a series.	
	Unconjugated Bilirubin (Bu)		0 to unspecified	> 15.0 mg/dL	
	Valproic Valproic		0-18 yrs	$\geq 125 \mu\text{g/mL}$	
			18 yrs to unspecified	> 150 µg/mL	
	Vancomycin Trough		>25 μg/mL	ν 130 μg/III.	
RapidPoint	<u> </u>		> 2.0 mmol/L		
Kapiur Ollit	Lactate Sodium		<125 or >155 mmol/L		
	Potassium		<3 or ≥6 mmol/L		
		Whole Blood		<7.2 or >7.5	
	pH Blood Gases	Arterial	0-7 days	<7.2 or >7.5	
	Gases	Capillary	7d – 6mo	7.2 or 7.55	
		Whole Blood Venous	≥6mo	<7.2 or >7.55	
		Cord Arterial/Venous	0-6mo N/A	<7.2 or >7.5	
	G02			≤7.1	
	pCO2 - whole blood arterial/venous/capillary		0-18 yrs	<20 or >70 mmHg	
	Ionized Calcium		0-6mo	< 0.85 or >1.6 mmol/L	
			6 mo-18yrs	< 0.80 or >1.45 mmol/L	

Critical Value Chart

			≥18 yrs	<0.80 or >1.60 mmol/L	
	Base Excess -	Cord Arterial/Venous	<u>≤-10</u>		
	TCO2 – whole blood		<10 or >40 mmol/L		
	Carboxyhemoglobin (COHb)		> 15%		
Hematology	Hemoglobin		Less than 7mg/dl		
	Hematocrit		0-6 months	< 25 %	
			6 months to	< 21 %	
			unspecified		
	WBCs		< 1.0 or >50.0 K/cmm		
	Absolute (ABS) Neutrophil count (ANC)		< 0.50 K/cmm		
	Platelets		< 21 or > 1200 K/cmm		
	Blasts		>20 %		
	CSF TNC		≥100 /cmm		
Coagulation	INR		≥ 5.0		
Cougulation	PTT		> 100 sec.		
	Fibrinogen		< 90 mg/dL		
	Heparin Leve	l – UFH	> 1.0 IU/mL		
	Heparin Level – LMWH		> 2.0 IU/mL		
Urinalysis	Ketones		3+ (large)		
Microbiology	Blood Cultures		Growth of any organism		
	Fluid Gram stains (CSF)		Growth of any organism		
	CDIF PCR		BOTH Toxigenic CDIF Positive and 027, NAP1, BI strain Positive		
Send Out tests	CSF Gram stains/Cultures		Growth of any organism		
	Mycobacteria TB Complex PCR		Positive		
	Plasmodium (all species) in Blood parasite exam (PBEX) or BinaxNow antigen		Positive		
Point of Care	NOVA Glucometer (0-24 hrs)	Glucose	Refer to Newborn Hy	poglycemic Protocol	
	NOVA Glucose		<40 mg/dL OR >180 mg/dL		
	Glucometer (1- 8 days)		If < 30 confirm via lab draw within 1 hour		
	NOVA Glucose		<50 mg/dL OR >500 mg/dL		
	Glucometer (>/= 8 days to Adult)		If > 500 confirm via lab draw within 1 hour		
	Coagucheck INR XS		\geq 5.0, send to main lab for confirmation		
	Hemocue Hemoglobin		>7.0 g/dL, confirm result if requested		
	Clinitek Urine - Ketones Status+		3+ or 4+		
	Lead Care II	Lead	\geq 45 μ g/dL		