259.259 Critical Value Reporting

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Next Periodic Review test catologue

Needed On or Before 12/5/2026 Organization Porter Medical Center

Effective Date 12/9/2024

Author

Deborah S. Mack, BSMT (ASCP), C(LQM)

Approval and Periodic Review Signatures

Туре	Description	Date	Version	Performed By	Notes
Approval	Lab Director	12/5/2024	13.0	Vlada Alexeeva, MD Vlada Alexeeva MD	
Approval	Lab Administrator	11/20/2024	13.0	Lia McFarline	

Signatures from prior revisions are not listed.

Approvals and periodic reviews that occurred before this document was added to Document Control may not be listed.

Prior History

Critical Value Reporting

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Effective Date: November 10, 2010

Employee Initial Review

Employee's Name	Date of Initial Review by the Employee	Employee's Initials	Employee's Signature
Michelle Brutowski Brut Koski	414	M	Yichelle Brotkoski
Penny Depew		 	Panny De Dew
Becky McArdle	5/20/11	BA	Bed Mr.AM.
Kathleen Moore	12/23/10	Kem	Keethleen Moore
Liza Pellerin	12/23/10	LHP	Liza Ll Pellerin
	10/042		
Kim Richards	Vim Richardo	V12	Kim Richardo
Sue Bergmans,	2/25/10	B	Sur & Bergman
Kris Beaudin,	00010	18	Ruslue Bearder
Christine Cook	12/23/10	Of	Christine Colo
Steve Cooper	05/20/2011	BO	without on
Lisa Hauenstein			
Don Guptill	12-23-10	DW	D. Fustis
Larry Lawson	12-24-10	1/2	Jane Janes
Karen Lykins	05/24/11	KSC	Harens. huleur
Beverly Rivers	12/25/2016	BHL	B42
Ray Rovi	23 Dec 10	a	Bell.
Dawn Smith	Jan 12 2011	Ses .	Vaus Diniet
Nancy Wolmuth	12/24/10	nω	Vancy Volmath
Wendi Turner	1a 23 10	WT	Wendi Jum
Brian Lee	5-4-11	BL	Bin tee

Critical Value Reporting

Document Number: GEN-001-Proc-Ver.2

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Employee Initial Review

Employee's Name	Date of Initial Review by the Employee	Employee's Initials	Employee's Signature
Karen Rouse	5-12-11	KP	Kaun Rausa
Hearthen Flavel		hif	Hearty gearell
Kathlein HVChro	7/25/12	193	Cattles Hucher
Joshu Peppman	- 9/5/12	RM	
Linda Hampter	9/8/12	L.H	Rings Hanptin
Allison Heibles		I AH	allison Heith
DOOTHY STULL	11/27/12	DS	Worther Que Deur
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Porter Hospital Laboratory, Middlebury, VT 05753; Critical Value Reporting

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Version History

Version	Status	Туре	Date Added	Date Effective	Date Retired
13.0	Approved and Current	Major revision	11/19/2024	12/9/2024	Indefinite

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Critical Values

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Critical Values

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 Nurse, Medical Assistant, Physician, or Primary Care Giver of the critical value and document in the computer that notification has been done. 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 Nurse, Medical Assistant, Physician, or Primary Care Giver receiving and reading back the results. The date, time, and your name are automatically documented by computer. Be sure the results are read back to you by the person receiving the results. If notification cannot be completed within 30 minutes, technologist should contact call center again for a second page. 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. 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. Document in Comm log, all of your attempts 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. The exception to this is CSF cell count/differentials. These may take up to one hour to report. All critical value notifications will be documented in the computer even if the responsible party is not contacted until the next day.

Critical Values

		Procedural Inst	ructions	
	Step	Action		
		If the critical value is obtained on testing performed at UVMHN Porter Medical Center Laboratory, immediately verify the result.		
		If	Then	
		Critical value is obtained in Blood Banking(Antibody Screen POS)	• Repeat the test(s) using either the primary tube or a new aliquot of the patient's sample.	
	1	Critical value is in Hematology	Rerun well-mixed sample and/or make a second slide and review. Analyzer auto reruns.	
		Critical value in Microbiology, Chemistry, Coag	 Recheck labels, reagents, etc. to verify correct patient sample, correct reagents, etc. It is up to the discretion of Tech and at request of provider, if it is to be repeated. 	
		Reference Laboratories, determine th	esting performed at UVMHN Porter Medical Center and e patient's location for notification and documentation alue, prior to providing caregiver with result, request	
		caregivers full name (first and last) an		
		If	Then	
	2	Patient is an in-house patient	 Call the respective in-house department and state you have critical values that need to be called to patient's physician. Results must be given to nursing staff. 	
Procedure for Critical Values		Patient is an HPHRC resident	 Notify both the primary care physician and the resident's nurse. 	
		Patient has been discharged	Notify the ordering/on-call physician.	
			Patient is an outpatient and it is during normal office hours	 Call office and notify nursing staff. State that the critical values must be brought to the physician's attention immediately.
		Patient is an outpatient and it is before/after normal office hours	Notify the physician on-call.	
	3	and the location of the Nurse, Medica	Ising the CommLog function in the LIS - record the name (first and last name), the credentials and the location of the Nurse, Medical Assistant, Physician, or Primary Care Giver receiving and reading back the results. The date, time, and your name are automatically documented by computer.	
		-	within 30 minutes, technologist should contact call	
	4	call the center one more time askin make three attempts. If after the thout to the Emergency Department getting ahold of the provider or patthe start time of first phone call to communication within 30 minutes of	fter 2 attempts, there is no response, then they must g for an additional person on call to be paged. Lab will aird attempt, there has been no call back, please reach and explain your situation and ask for their help with tient. Document in Comm log, all of your attempts and make sure we are in compliance of starting the of receipt of critical differentials. These can take up to an hour to report.	

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Critical Values

	Step Action
References	CAP Standards: COM.30000, COM.30100
Appendices	Appendix A: Critical Value Chart
Document Author	Edited By: Ashley LaBerge, MLS (ASCP)
Revision History	Refer to Medialab
Approval Documentation	Available upon request

Appendix A: Critical Values Chart

		ix A: Critical Values Ch	_	
Testing	Alerting	Test		itegory:
Area	Category		Complete Alert	
				<mark>) minutes</mark>
Blood Bank	Always Red	Compatibility	Any compatibilit	• •
		Transfusion	Any transfusion reactions indicating incompatibility.	
Cl	Al D. J	Reactions		
Chemistry	Always Red	Direct Bilirubin	0-1 year = ≥ 1.0 mg/dl 1+ year = > 15.0 mg/dL	
	Always potentially	Total Bilirubin		
	life-threatening,		Above: 15 mg/dL	
	even if patient is	Carbon Dioxide Creatinine	Below: 10 mmol	/L
	actively being	Creatillile	Critical Value	
	treated		<u>Offical value</u>	
			$0-18y: \ge 3.0 \text{ mg/d}$	IL
			. 10 . 170	
			>18y: ≥ 15.0 mg/c	dL
			Delta Critical Va	lue
			Deita Chilean Va	<u></u>
			0-18y: ≥ 1.0 mg/d previous	L higher than
			>18y: > 5.0 mg/d	L with no R 3X higher than
			the previous OR	
			> 2.5 mg/dL high	
			value	
		Digoxin	Above: 2.0 ng/m	L
		Glucose	0-1 Day: Below	1 Day to
			40 mg/dL	Unspecified:
				Below 50 mg/dL
			0-1 Day: Above	1 Day to
			180 mg/dL	Unspecified:
				Above 500 mg/dL
		Lithium	Above: 1.5 mmo	
		Lactate	>2.0 mmol/L	
		рН	Below: 7.0	
		Blood Gases (ALL	Above: 7.6	
		AGES)		
		Ionized Calcium Blood	0-6 Months:	>/= 6 Months:
		Gas	<0.8 or >1.4	<0.8 or >1.6
		Potassium	mmol/L 6 months to 1	mmol/L All other ages:
		1 Otassium	YR:	Below: 3.0
			Below: 3.0	mmol/L
			mmol/L	
			6 months to 1	All other ages:
			YR: Above: 6.1	Above: 6.0 mmol/L
			Above: 6.1 mmol/L	mmot/L
		Sodium	Below: 125 mm	ol/L
			Above: 155 mm	ol/L
			Above: 155 mm	ol/L

	1 st Time in a Cardiac Series	Troponin	Above: 60ng/L	
	Always Red	Acetaminophen	Above: 100 μg/n	nL
	Most dangerous when first detected, but providers should have these results as condition is being treated.	Calcium	0-1 month: Below 6.5 mg/dL	1 month- Unspecified: Below 6.5 mg/dL
			0-1 month: Above 12.0 mg/dL	1-month- Unspeficied: Above 11.5 mg/dL
		Magnesium	Below: 1.0 mg/d	L
			Above: 4.8 mg/d	L
		Salicylate	Above: 30 mg/d	L
		Valproic	Above: 150 μg/n	nL
		Vancomycin Peak	Above: 50 μg/mI	
		Vancomycin Trough	Above: 25 μg/mI	
Coagulation	Always Red	INR	Greater than or	Equal to 5.0
		PTT	Above: 100 sec.	
		Fibrinogen	Below: 90 mg/dL	
		Heparin Level – UFH	Above: 1 IU/mL	
		Heparin Level – LMWH	Above: 2 IU/mL	

Testing	Alerting	Test	1	
Area	Category			
Hematology	Always Red	Hemoglobin	Below	: 7 g/dl
		Hematocrit	0-6 months	Below: 25%
			>6 months	Below: 21%
		CSF, Total Nucleated Cells	≥ 10	0/μL
		Leukocytes	Below:	1,000 /μL
		Abs. Neutrophil	Below:	<500 /μl
		Leukocytes		50,000 /μL
		Platelets		1,000/μL 200,000/μL
		Blast cells	>2	0%
Microbiology	Always Red	Blood cultures	Growth of an	y organism(s)
		Gram stain	Positive gram stains from: CSF & Joint Fluid	
Urinalysis	Always Red	Legionella	Pos	itive
·	·	S. pneumoniae	Positive 3+	
		Urinalysis (Ketones)		
Reference Laboratory	Always Red	CSF Cultures	Growth of any organism(s)	
Reporting		Culture	Growth of En	teric Pathogen
				p B <i>streptococcus</i> ewborns
				culture for
				orrhea
				RE or MRSA
		Any Test Deemed	•	lue called from a
		Critical by Reference Lab		nce Lab B (new diagnosis)
		Lab		rtussis by PCR
				ast Stain/ Isolate
			Positive Parasi	ites in Blood or
			Positive Chlamy	ces ydia or GC DNA obes