

Critical Value Cut-Offs for Arterial and Venous Cord Blood Gases**Effective Date: May 15, 2025**

Effective May 15, 2025, Critical value cut-offs have been established for Arterial and Venous Cord Blood Gases, in collaboration with Corewell Health East Neonatologists and Director of Newborn Nursery. Affected tests and critical values are listed below:

Lab number	Test name	
LAB3365	Cord Blood Gas Arterial	
	Critical Values	
Blood Gas Analyte	Greater Than	Less Than
pH	--	≤ 7.10
pCO ₂	>75 mmHg	--
Base Excess	--	< -10 mmol/L
Total Hemoglobin	>25 g/dL	< 10 g/dL

Lab number	Test name	
LAB77	Blood Gas Cord Venous	
	Critical Values	
Blood Gas Analyte	Greater Than	Less Than
pH	--	≤ 7.20
pCO ₂	>60 mmHg	--
Base Excess	--	< -10 mmol/L
Total Hemoglobin	>25 g/dL	< 10 g/dL

If you have questions, please contact your Beaumont Laboratory Customer Service Department:

- Corewell Health Reference Lab Customer Service: 800-551-0488 or 248-551-1155, Option 5

Date submitted: May 13, 2025**Submitted by: Caitlin Schein, MD**