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September 17, 2021

Cord Blood Gas Order Changes

Effective September 22, 2021, the following changes are in place for ordering Cord Gas testing.

New Order Names

NEW ORDER	Old Order	
pH Cord Arterial		
pH Cord Venous	pH Cord	
Blood Gases Cord Arterial	Blood Gases Cord	
Blood Gases Cord Venous		

Specimen Requirements

Specimen requirements are unchanged

- Sample volume: 1 mL
 - Due to the viscosity of cord blood, more sample is required by the analyzer than with other sources of blood gas testing
- Sample must be free of air bubbles and clots
- Stability: 30 minutes

• Cord blood testing is validated for a maximum time of 30 minutes from collection to test initiation Specimens may be sent to the laboratory via pneumatic tube system

New Reference Ranges for Cord Blood Gases

	Arterial	Venous	Critical Value(s)
рН	7.12 - 7.35	7.23 - 7.44	Low: 7.10, High: 7.50 (applies to both Arterial and Venous)
pO2 (mmHg)	6 - 28	16 - 40	
pCO2 (mmHg)	42 - 74	29 - 53	
Bicarbonate (mmol/L)	19 - 28	17 - 26	
Base Excess (mmol/L)	-9.3 to +1.5	-8.3 to +2.6	

New Charting

- Art or Ven will appear in the test name on the chart
- If the Arterial and Venous specimens are collected at the same time, they will no longer both appear in the same box

TESTCERT, BABY 🛛						
TESTCER myBestCar Code Statu Alerts: Pre	e: No	Age:3 months Sex: Female DOB:5/10/2021 nown				
Menu	Ą	< 👻 🕇 Lab Acute				
Orders	🕂 Add ^					
Future Orders						
Inpatient Summaries		Flowsheet: MPC Laboratory Review v Level: MPC Laboratory				
Perinatal View						
Ambulatory Summaries						
Blood Bank		Navigator 🔀				
Results Review		Blood Gas Results				
		MPC Laboratory Review 9/2/2021 9:20				
Surgical Summaries		Blood Gas Results				
Patient Information		PH Cord Art 7.30				
Growth Chart		pCO2 Cord Art 60 mmHg				
		pO2 Cord Art 25 mmHg				
Medications	🕈 Add	HCO3 Cord Art 25 mmol/L				
Lab Acute		Base Excess Cord Art 0.00 mmol/L				
Clinical Notes	🕂 Add	O2 Sat Cord Art 95 %				
	- Add	pH Cord Ven 7.40				
MAR Summary		pCO2 Cord Ven 36 mmHg				
Microbiology		pO2 Cord Ven 36 mmHg HCO3 Cord Ven 25 mmol/L				
		Base Excess Cord Ven 0.00 mmol/L				
Documents	🕈 Add	O2 Sat Cord Ven 95 %				

For questions or concerns please contact Dr. Deb Perry (402-354-4559) or Dr. George Bedrnicek (402-955-5528).