114825.202 Order of Draw

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Last Approval or

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Location Intranet - Lab Website **Next Periodic Review** 6/23/2025

Organization Great River Health System **Needed On or Before**

Author Karen Hill

Effective Date

Approval and Periodic Review Signatures

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Signatures from prior revisions are not listed.

Version History

Version	Status	Туре	Date Added	Date Effective	Date Retired
2.0	Approved and Current	Major revision	6/21/2021	7/1/2021	Indefinite

Linked Documents

• 114825.390 Order of Draw Chart

Laboratory Policies & Procedures

Number	114825.202		
Southeast Iowa Regional Medical Center			
Applies to:			
[X] West Burlington	Campus		
[X] Fort Madison Car	npus		
[X] Hospital	[] Clinic		
[] Klein Center	[] Rural Health Clinic		
[] Hospice	[] Family Planning		
[] Hospital-Based	Clinics		

Order of Draw

Purpose:

This procedure provides instructions for the proper order-of-draw when collecting multiple tubes during venipuncture or capillary puncture. The purpose is to avoid possible test result error due to cross contamination from tube additives. The order of draw for capillary puncture differs from that of venipuncture.

Procedure:

Order of Draw-	Tube Cap Color	Additional Information
Venipuncture		
1) Blood Culture Bottles	Blue, Purple or Pink top	
2) Sodium-citrate Tube	Blue cap	
3) Serum Tubes	Red cap or Gold top	With or without clot activator, with or without gel separator.
4) Heparin Tubes	Green cap	With or without gel.
5) EDTA Tubes	Lavender or Pink top	
6) Glycolytic Inhibitor	Grey top	

Order of Draw-	Tube Cap Color	Additional Information
Capillary		
1) EDTA Tubes	Lavender cap	Collect first to ensure adequate volume and accurate hematology test results.
2) Heparin	Green cap	With or without gel.
3) Serum Tubes	Red or yellow cap	With or without clot activator, with or without gel separator.

Procedure notes:

This procedure should be followed for both glass and plastic venous blood collection tubes, as well as syringe draws.

When using a winged blood collection set for venipuncture and a coagulation tube is the first tube needed, first draw a discard tube. The discard tube must be used to prime the tubing of the collection set, which will assure maintenance of the proper anticoagulation/blood ratio in the tube filled. The discard tube should be a nonadditive or a coagulation tube, and need not be completely filled.

References:

CLSI GP41, 7th edition, Collection of Diagnostic Venous Blood Specimens, April 2017.

CLSI GP42-A6, Procedures and Devices for the Collection of Diagnostic Capillary Blood Specimens; Approved Standard-Sixth Edition.