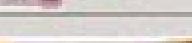
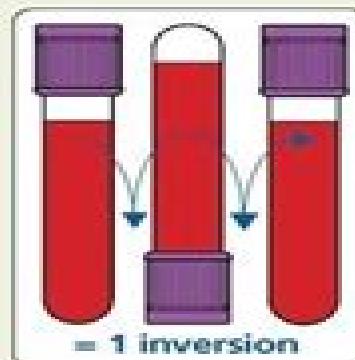


Phlebotomy Order of Draw

Tube Closure Color	Collection Tube	Mix by Inverting	Min. Clot Time
	Blood Cultures – SPS	8 to 10 times	N/A
	Citrate Tube (Light Blue)	3 to 4 times	N/A
	Serum Separator Tubes (Gold and Tiger)	5 times	30 minutes
	Serum Tube (Red)	5 times (plastic) None (glass)	60 minutes
	Rapid Serum Tube (Orange)	5 to 6 times	5 minutes
	Plasma Separator Tube	8 to 10 times	N/A
	Heparin Tube (Green)	8 to 10 times	N/A
	EDTA Tube (Lavender)	8 to 10 times	N/A
	PPT Separator Tube (Pearl)	8 to 10 times	N/A
	Fluoride Tube (Gray)	8 to 10 times	N/A

Note: Always follow your facility's protocol for order of draw



When using a winged blood collection set for venipuncture and a coagulation (citrate) tube is the first specimen tube to be drawn, a discard tube should be drawn first. The discard tube must be used to fill the blood collection set tubing's "dead space" with blood but the discard tube does not need to be completely filled. This important step will ensure proper blood-to-additive ratio. The discard tube should be a nonadditive or coagulation tube.

Tube Recommendations Framework

John Lombard

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Instrument Engineers' Handbook, (Volume 2) Third Edition Bela G. Liptak, 1995-05-15 This third edition of the Instrument Engineers Handbook most complete and respected work on process instrumentation and control helps you Process Control Béla G. Lipták, 2013-10-02 Instrument Engineers Handbook Third Edition Process Control provides information pertinent to control hardware including transmitters controllers control valves displays and computer systems This book presents the control theory and shows how the unit processes of distillation and chemical reaction should be controlled Organized into eight chapters this edition begins with an overview of the method needed for the state of the art practice of process control This text then examines the relative merits of digital and analog displays and computers Other chapters consider the basic industrial annunciators and other alarm systems which consist of multiple individual alarm points that are connected to a trouble contact a logic module and a visual indicator This book discusses as well the data loggers available for process control applications The final chapter deals with the various pump control systems the features and designs of variable speed drives and the metering pumps This book is a valuable resource for engineers *Johns Hopkins Evidence-Based Practice for Nurses and Healthcare Professionals: Model & Guidelines, Fifth Edition* Kim Bissett, Judy Ascenzi, Madeleine Whalen, 2025-04-16 Johns Hopkins Evidence Based Practice for Nurses and Healthcare Professionals has proven to be one of the most foundational books on EBP in nursing and healthcare Building on the strength of previous versions the fifth edition is fully revised to present the updated Johns Hopkins Evidence Based Practice JHEBP model representing some of the biggest changes to date The revised simplified model presents updates to the categories of evidence appraisal tools and emphasis on using suitable pre appraised evidence These changes better support real life EBP projects and the changing evidence based healthcare landscape NEW key features of the book include New chapter on Interprofessional Teams New chapter on real world implementation Simplified appraisal process Improved Evidence Phase Decision Tree The impact of COVID 10 on EBP Emerging issues such as Artificial Intelligence New exemplars showcasing the JHEBP model in action More direction for searching and screening to streamline the process New ways of characterizing best evidence recommendations TABLE OF CONTENTS Part I Evidence Based Practice Overview Chapter 1 Evidence Based Practice Yesterday Today and Tomorrow Chapter 2 The Johns Hopkins Evidence Based Practice JHEBP Model for Nurses and Healthcare Professionals HCPs Process Overview Part II Practice Question Evidence Translation PET Chapter 3 The EBP Team Chapter 4 The Problem Chapter 5 The EBP Question Chapter 6 Searching for Evidence Chapter 7 Evidence Chapter 8 Summary synthesis and best evidence recommendations Chapter 9 Translation Chapter 10 Implementation Chapter 11 Dissemination Part III Exemplars Chapter 12 Exemplars Part IV Using the JHEBP Tools Chapter 13 Lessons From Practice Using the JHEBP Tools Part V Appendices A PET Process Guide B Question Development Tool C Stakeholder Analysis and Communication Tool D Hierarchy of Evidence Guide E Research Evidence Appraisal Tool F Nonresearch Evidence Appraisal

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