
Contents

<i>Part I</i>	<i>Collection of Blood Specimens</i>	
	1	3
	VENIPUNCTURE PROCEDURES	
	Jean Koebke, Eppie McFarland, Mary Mein, Betty Winkler, Jean M. Slockbower	
	2	46
	SKIN PUNCTURE BLOOD-SPECIMEN- COLLECTION	
	Thomas A. Blumenfeld	
	3	55
	ARTERIAL PUNCTURE PROCEDURES	
	Susan Stumpf	
	4	77
	BLOOD COLLECTION PROCEDURES	
	Blood Cultures	77
	M. Marsha Hall	
	Preparation of the Peripheral Blood Film	82
	Robert V. Pierre, Mary Morris	
	Blood Bank Specimens	91
	Cheryl L. Sonnenberg	
<i>Part II</i>	<i>Collection of Nonblood Specimens</i>	
	5	103
	SPECIMENS FOR URINALYSIS	
	Jean Simindinger, Fuad K. Mansour, Jean M. Slockbower	

6	BODY FLUID SPECIMENS	114
	Robert I. Kalish, Howard S. Cheskin, Thomas A. Blumenfeld	
	Pleural, Pericardial, and Peritoneal Fluids	114
	Synovial Fluid	125
	Cerebrospinal Fluid	136
	Amniotic Fluid	144
Part III	<i>Handling Procedures</i>	
7	TRANSPORT SYSTEMS	151
	Transport of Blood Specimens by Pneumatic Tube	151
	James D. Jones	
	Transport Equipment	159
	Mary Mein	
	External Transport of Medical Specimens	163
	Gerald Wollner	
8	PROCESSING OF SPECIMENS	172
	Fuad K. Mansour	
Part IV	<i>General Specimen Considerations</i>	
9	HOW LABORATORY TESTS ARE USED IN CLINICAL MEDICINE	195
	Michael B. O'Sullivan	
10	SOURCES OF VARIABILITY IN CLINICAL LABORATORY VALUES	199
	James D. Jones	
11	PATIENT AND SPECIMEN IDENTIFICATION: FUTURE CONSIDERATIONS	206
	Alvaro E. Pertuz	

Part V	<i>Training and Administrative Considerations</i>	
12	<i>TRAINING THE PHLEBOTOMIST</i>	217
	Venipuncture	217
	Eppie McFarland	
	Arterial Puncture	224
	Susan Stumpf	
13	<i>SUPPLY MANAGEMENT AND QUALITY CONTROL</i>	230
	Betty Winkler	
14	<i>MANAGING THE PHLEBOTOMY TEAM</i>	237
	David Sperling	
15	<i>SUMMARY OF CONSIDERATIONS IN THE COLLECTION OF SPECIMENS</i>	241
	Marjorie Gamm, Ruth Mangan, Jean M. Slockbower	
	Index	247