

# Contents

## **Introduction . . . . . 1-1**

Viewing AC Data . . . . .	1-2
Alarms . . . . .	1-2
Maintaining Hemodynamic Stability in Pediatric Apheresis	
Patients . . . . .	1-3
Calculation for Packed Cell Dilution . . . . .	1-5

## **Mononuclear Cell (MNC) Collection**

### **Procedure . . . . . 2-1**

Equipment and Supplies . . . . .	2-2
Before You Start . . . . .	2-3
Configuration Options . . . . .	2-3
“Blood Prime” for Pediatric Donors/Patients . . . . .	2-5
Collect Pump Flow Rate . . . . .	2-5
Net Additional Saline Returned to Donor/Patient . . . . .	2-5
MNC Collection Fluid Volumes . . . . .	2-5
Volumes Processed During Rinseback . . . . .	2-5
Setting Up the Spectra System . . . . .	2-6
Installing the Filler . . . . .	2-6
Loading the Disposable Tubing Set . . . . .	2-7
Placing Tubing on the Front Panel . . . . .	2-7
Installing the Channel in the Filler . . . . .	2-8
Priming the Disposable Tubing Set . . . . .	2-10
Entering Donor/Patient Data . . . . .	2-13
Connecting the Donor/Patient . . . . .	2-15
Starting the Run . . . . .	2-16
Quick Start . . . . .	2-17
Monitoring the Interface . . . . .	2-17

Changing the Collect Pump Flow Rate . . . . .	2-18
Collecting Plasma . . . . .	2-18
Continuing the Run . . . . .	2-18
Starting Rinseback . . . . .	2-19
Disconnecting the Donor/Patient . . . . .	2-20
Removing the Disposable Tubing Set . . . . .	2-21
Helpful Hints and Recovery Procedures . . . . .	2-22
Establishing the Optimum Interface . . . . .	2-22
Correcting WBC Procedure Type . . . . .	2-23

## **Polymorphonuclear (PMN) Cell Collection**

### **Procedure . . . . . 3-1**

Equipment and Supplies . . . . .	3-2
Before You Start . . . . .	3-2
Configuration Options . . . . .	3-3
Collect Pump Flow Rate . . . . .	3-4
Sedimenting Agents . . . . .	3-4
Setting Up the Spectra System . . . . .	3-5
Installing the Filler . . . . .	3-5
Loading the Disposable Tubing Set . . . . .	3-5
Placing Tubing on the Front Panel . . . . .	3-5
Installing the Channel in the Filler . . . . .	3-5
Priming the Disposable Tubing Set . . . . .	3-6
Entering Donor Data . . . . .	3-9
Connecting the Donor . . . . .	3-11
Starting the Run . . . . .	3-11
Starting Rinseback . . . . .	3-11
Disconnecting the Donor . . . . .	3-11
Removing the Disposable Tubing Set . . . . .	3-12

Helpful Hints and Recovery Procedures . . . . . 3-12  
     Establishing the Optimum Interface . . . . . 3-12  
     Correcting WBC Procedure Type . . . . . 3-12

**AutoPBSC Procedure . . . . . 4-1**

Equipment and Supplies . . . . . 4-2  
 Before You Start . . . . . 4-4  
     Configuration Options . . . . . 4-4  
     Other Options . . . . . 4-6  
     Pediatric Donors/Patients . . . . . 4-7  
     Net Additional Saline Returned to Donor/Patient . . . 4-7  
     AutoPBSC Fluid Volumes . . . . . 4-8  
     Volumes Processed During Rinseback . . . . . 4-8  
 Setting Up the Spectra System . . . . . 4-9  
     Installing the Filler . . . . . 4-9  
 Loading the Disposable Tubing Set . . . . . 4-10  
     Placing Tubing on the Front Panel . . . . . 4-10  
     Installing the Channel in the Filler . . . . . 4-11  
 Priming the Disposable Tubing Set . . . . . 4-14  
 Entering Donor/Patient Data . . . . . 4-17  
 Connecting the Donor/Patient . . . . . 4-19  
 Starting the Run . . . . . 4-20  
     Establishing the Interface . . . . . 4-21  
     Collecting Plasma . . . . . 4-22  
     Changing the Collect Volume . . . . . 4-22  
     Viewing or Changing Donor/Patient Data . . . . . 4-22  
     Accumulation, Harvest and Chase Phases . . . . . 4-23  
     Ending the Run . . . . . 4-24  
 Starting Rinseback . . . . . 4-25  
 Disconnecting the Donor/Patient . . . . . 4-26

Removing the Disposable Tubing Set . . . . . 4-26  
 Helpful Hints and Recovery Procedures . . . . . 4-27  
     Harvest and Chase Volume Considerations . . . . . 4-27  
     Assisted Mode . . . . . 4-29  
     Special Considerations for Pediatric Donors/Patients . 4-30  
     Manual Recovery for Extremely Low Interfaces . . . . 4-31  
     Extending the Procedure to Compensate for a Missed  
         Harvest . . . . . 4-32  
 Alarms and Troubleshooting . . . . . 4-33  
     Cells not detected, not harvesting . . . . . 4-33  
     Cells seen too soon. Check patient data . . . . . 4-34  
     CCM CALIBRATION FAILURE . . . . . 4-34  
     Check the CCM for proper loading . . . . . 4-34  
     Harvest/Chase Volume configuration was changed  
         last run . . . . . 4-35  
     Spillover Detected, Adjusting Interface . . . . . 4-35  
     SPILLOVER PERSISTS . . . . . 4-36  
     The Difference Between a Dark and a Pink Spillover. 4-36

**Bone Marrow Processing (BMP) Procedure . . . 5-1**

Equipment and Supplies . . . . . 5-2  
 Before You Start . . . . . 5-2  
     Filtering the Bone Marrow . . . . . 5-2  
     Adding Anticoagulant . . . . . 5-2  
     Interface Problems . . . . . 5-3  
     Counting Cell Recoveries . . . . . 5-3  
     BMP Fluid Volumes . . . . . 5-3  
     Volumes Processed During Rinseback . . . . . 5-3  
     Starting Values for Procedure . . . . . 5-4  
     Ranges for Bone Marrow Data . . . . . 5-4  
     Ranges for Run Results . . . . . 5-4

Setting Up the Spectra System . . . . . 5-5  
     Installing the Filler . . . . . 5-5  
 Loading the Disposable Tubing Set . . . . . 5-5  
     Placing Tubing on the Front Panel . . . . . 5-5  
     Installing the Channel in the Filler . . . . . 5-7  
 Priming the Disposable Tubing Set . . . . . 5-9  
 Transferring Bone Marrow to the BMP Set . . . . . 5-12  
 Entering Bone Marrow Data . . . . . 5-13  
 Connecting the BMP Set to the WBC Disposable Tubing  
     Set . . . . . 5-15  
 Starting the Run . . . . . 5-16  
     Quick Start . . . . . 5-16  
     Monitoring the Interface . . . . . 5-16  
     Opening the Collect Valve . . . . . 5-17  
     Processing the Bone Marrow . . . . . 5-17  
 Starting Rinseback and Completing the Procedure . . . . . 5-19  
 Removing the Disposable Tubing Set . . . . . 5-21  
 Helpful Hints and Recovery Procedures . . . . . 5-22  
     Changing the Bone Marrow Data or Reviewing End  
         Results . . . . . 5-22  
     Recovering and Concentrating RBCs After Bone Marrow  
         Processing . . . . . 5-22  
**Index . . . . . i-1**