**Purpose:**

This procedure provides instructions for the use of Portable Blood Refrigerators (PBR) in the Harborview Medical Center (HMC) Transfusion Service (TS) operations.

**Procedure:**

|  |  |  |
| --- | --- | --- |
|  | **Action** | **Related Documents** |
| **1.** | * When portable refrigerators are requested for use by a patient care area:
* TS staff will deliver and return PBR to and from the patient care area.
* Plug the PBR into power outlet immediately upon arriving in the patient care area. (Must be within 15 minutes of leaving Transfusion Service)

*Note: Emergency Power outlet is preferred.** Document on the Portable Refrigerator Log, and on the erasable board in the Transfusion Service:
* Location and Fridge Number
* Reason for Fridge
* Response Date/Time
* Patient Information
 | * + Portable Refrigerator Log
 |
| **2.** | * When stocking and dispensing blood to a PBR:
* Confirm the PBR is operational
	+ Temperature is 1-6°C
	+ Compressor is running
	+ Graph is recording
	+ Erasable board is wiped clean
* Perform Blood Product Issue using the Portable Refrigerator log to replace a BPR. Place a copy of the log in the BPR folder in TSL.
* Complete a Portable Refrigerator Log or Trauma Response Log
	+ Unit numbers, Product type, and ABO/Rh
	+ Patient ABO/Rh
* Place blood products directly on the top shelf of the refrigerator.
* Stock only ONE patient’s blood per PBR.
* Do NOT refrigerate platelets or cryoprecipitate.
 | * Blood Product Issue Process
 |
| **3.** | When arriving at the patient care area:* Record the patient name and HID on the erasable board
* Remain with the PBR until released by the Physician or charge nurse in a trauma or unstable bleeding situation
* Unnecessary to remain with PBR when:
	+ RBCs are crossmatched **AND**
	+ Delivered to O.R. for duration of procedure **OR**
	+ Delivered to patient care area **OR**
	+ Released by Physician once patient is stable
 |  |
|  | **Action** | **Related Documents** |
| **4.** | * When issuing or returning blood products to the PBR, record:
	+ Date/time
	+ Identification of the person removing/returning the unit
 |  |
| **5.** | * When leaving the PBR in a patient care area (e.g., PBR has been requested at the bedside or in O.R.):
* Obtain signature of Clinical Care staff on the PR Log
 |  |
| **6.** | * If the patient is transferred to another location and still requires the PBR:
* Transfer the PBR after placing the erasable board face down on top of the refrigerator
* Notify TSL staff of new location so they can update the TSL board.
* Note location change on the PR Log
* Obtain signature of Clinical Care staff on the PR Log
* Replace erasable board on front of PBR
 |  |
| **7.** | * When adding product to a PBR:
	+ Create a new log and obtain clinical care staff signature
 |  |
| **8.** | * When returning the PBR to the Transfusion Service:
	+ Before leaving the patient care area
		- Confirm documentation of removal matches refrigerator contents.
		- Reconcile any discrepancies
		- Place erasable board face down on top of refrigerator
	+ Complete the Returned Section of the PBR log including Return Time.
	+ Examine “time out” for products removed and returned by clinical care staff.
	+ Perform visual inspection.
	+ Quarantine unacceptable or questionable products.
	+ Return Sunquest issued products using Blood Status Update.
	+ Complete Blood Product Issue for non-Sunquest issued transfused products.
	+ Return any unused blood products to the appropriate storage area.
	+ File Portable Refrigerator Log in the appropriate notebook.

Refrigerator: * + Verify that the PBR temperature graph is recording.
	+ Clean both the exterior and interior surfaces of the PBR with a disinfectant solution designated for use on stainless steel.
	+ Wipe erasable board clean
	+ Document on the Portable Refrigerator Cleaning Log
	+ Plug into power outlet.

 *Note: Emergency Power outlet is preferred.* | * + Blood Status Update.
	+ Blood Product Issue
	+ Portable Refrigerator Cleaning Log Form
 |

**References:**

AABB Standards for Blood Banks and Transfusion Services, Current Edition.

AABB Technical Manual, Current Edition.