PBMT-GEN-002
OVERVIEW OF
DUKE UNIVERSITY PEDIATRIC BLOOD AND MARROW TRANSPLANT PROGRAM PERSONNEL

The Pediatric Blood and Marrow Transplant (PBMT) Program at Duke University Medical Center was established in 1990 with the support of Hardees Food Systems and the North Carolina Credit Union League. Initially, the program consisted of a 7 bed inpatient unit, a 5-day/week, 8 hour/day outpatient clinic, a treatment room on the inpatient unit for off-hours acute outpatient visits, a clinical stem cell transplant processing laboratory and the administrative staff required to support the program. The program became a certified member of the National Marrow Donor Program (NMDP) in 1992. In 1996, the program was awarded a contract from the National Heart Lung and Blood Institute to establish the Carolinas Cord Blood Bank (CCBB) at Duke, a public cord blood banking facility. In 1997, the program moved into a new 16-bed inpatient unit which remains operative today. The inpatient unit has a dedicated Bone Marrow Outpatient Procedure (BOPP) room for patients to be seen when the outpatient clinic is closed. The administrative support space and Stem Cell Laboratory (STCL) moved into a new, enlarged facility in 2000. The program moved to new outpatient facilities in 2001. In addition to the standard outpatient examination rooms, the clinic contains the Valvano Day Hospital (VDH), a 7 day/week, 12 hour/day outpatient treatment facility in which outpatient infusion therapy is administered to patients recently discharged from the inpatient setting. The outpatient clinic also has dedicated on-site laboratory and pharmacy support. The program coordinates outpatient care with local home infusion companies as determined by the patient’s third party payer.

In 2010, the Robertson Clinical and Translational Cell Therapy Program (CT2) was established to provide administrative and laboratory-based infrastructure to conduct early trials of cellular therapy products in the adult and pediatric populations. The CT program includes:

- Cell Therapy Clinical Trials program for studies in both traditional as well as in brain injuries, cerebral palsy, and autism.
- A Good Manufacturing Practice (GMP) was established in 2011 for processing advanced cell and tissue based therapeutic products for pediatric and adult patients.
- Quality Systems Unit (QSU) to ensure compliance with federal regulations and accreditation agencies.
- The Carolinas Cord Blood Bank, one of the largest public cord blood banks in the world, with an extensive inventory of racially diverse cord blood units (CBU). Cord blood units banked at CCBB are listed through the National Marrow Donor Program. Donations may also be for directed donations for a family member who has a disease that may be treated with a cord blood transplant or by infusion through one of the clinical trials.
- The GMP Laboratory, QSU, CCBB are located in the North Pavilion Building, about 3 city blocks from the hospital inpatient units and outpatient clinics.

In 2012, the FDA approved a BLA for DUCORD. This product is given as an adjunctive procedure to patients with inborn errors of metabolism who are undergoing standard treatment with unrelated umbilical cord blood transplantation who have evidence of early demyelinating disease in the central nervous system.

In 2018, The Marcus Center for Cellular Cures (MC3) was established to further focus on
developing cellular and biological therapies for autism, cerebral palsy, stroke and related brain disorders. At this time, the name “Robertson Clinical and Translational Cell Therapy Program (CT2)” was retired.

Originally, the PBMT program was staffed with 2 dedicated pediatric BMT physicians with backup coverage from the Pediatric Hematology/Oncology staff. After 1995, a dedicated Pediatric BMT physician, advanced practice provider, and nursing staff was employed.

In 2018, the program is staffed with:

- 7 Full time attending physicians
- 2 PBMT fellows
- 2 dedicated hospitalists for nighttime coverage
- 11 Pediatric Advanced Practice Providers
- 4 Nurse Coordinators
- 2 Financial Analysts
- 2 Social Workers
- 1 Dedicated inpatient pharmacist
- A team of outpatient pharmacists
- 1 Dietician
- 2 Child-life therapists (inpatient and outpatient)
- 1 Physical Therapist
- 1 Music Therapist seeing patients both inpatient and outpatient
- 1 Quality Systems Unit
- 1 Computer Programmer
- 1 Clinical Trials Manager
- 12 Clinical Research Coordinators
- 3 Members of the Family Support Group
- 1 Discharge Planner
- 1 Search Coordinator
- 1 Chaplain
- > 65 Registered Nurses (RNs) caring for PBMT patients in the inpatient and outpatient settings

Revision History

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<td>05</td>
<td>S. McCollum</td>
<td>Data for 2010 added to include addition of CT2</td>
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<td>Data for 2012 added for BLA and DUCORD</td>
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<td>Data for 2018 added to include addition of Marcus Center for Cellular Therapy</td>
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<td>Staffing updated for 2018 include MC3 clinical staff</td>
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PBMT-GEN-002 Overview of Duke University PBMT Personnel Program

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Medical Director

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