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<th>ABMT-GEN-008</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOCUMENT TITLE:</td>
<td>Adult Blood and Marrow Transplant Programs Training for Nurses</td>
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ABMT-GEN-008
ADULT BLOOD AND MARROW TRANSPLANT PROGRAMS
TRAINING FOR NURSES

1 PURPOSE
1.1 To outline the procedure for the orientation, training and competencies of the Adult Blood and Marrow Transplant (ABMT) nurse.

2 INTRODUCTION
2.1 The inpatient and outpatient nursing team on the ABMT unit consists of registered nurses, nursing care assistants and certified medical assistants. All registered nurses are required to complete a comprehensive orientation to both the hospital and their dedicated unit. They are also required to maintain competencies to care for an ABMT patient.

3 SCOPE AND RESPONSIBILITIES
3.1 This procedure covers the training provided to all nurses to care for the ABMT patient.
3.2 Nurses responsible for the care of the blood and marrow transplant patient.

4 DEFINITIONS/ACRONYMS
4.1 ABMT Adult Blood and Marrow Transplant
4.2 RN Registered Nurse
4.3 HIPPA Health Insurance Portability and Accountability Act
4.4 ONS Oncology Nursing Society

5 MATERIALS
5.1 N/A

6 EQUIPMENT
6.1 N/A

7 SAFETY
7.1 N/A

8 PROCEDURE
8.1 Nursing Staff
8.1.1 Registered nurses, Nursing Care Assistants and Patient Service Technicians in the ABMT program receive orientation and training in the management of patients receiving hematopoietic progenitor cell transplants. General hospital orientation includes safety training.
infection control, HIPPA compliance and hospital policies and procedures.

8.1.2 All Registered Nurses (RN) in the ABMT Program must be licensed in the state of North Carolina and successfully completed the basic hospital orientation.

8.1.3 Each Registered Nurse completes a competency based orientation and training including didactic lectures in hematology, oncology and blood and marrow transplant. Each RN must read ABMT Study Packet and pass a written test on the material.

8.1.4 In addition, each registered nurse must complete and pass the Hospital Chemotherapy test. After 2 years of employment, they are also expected to complete the course work and pass the exam to become Oncology Nursing Society (ONS) Chemotherapy/Biotherapy Certified.

8.1.5 During the first 8 weeks the RN will receive one to one instruction in bedside nursing care by an experienced ABMT nurse and successfully completed the Hospital and ABMT competencies.

8.1.6 All newly hired RN's are scheduled to attend the Hematology/Oncology Core Curriculum during the first year of employment.

8.1.7 RNs assigned to ABMT are required to attend a basic stem cell transplant course within the first year of employment. If the nurse is unable to attend the class, the nurse must review the written material.

8.1.8 All ABMT nurses are required to complete an annual chemotherapy competency test. In addition, advanced BMT lectures are offered at monthly staff meetings. Experienced BMT nurses are expected to read current literature in the field and attend the Advanced BMT Nursing lecture during the second or third year of employment.

8.1.9 Nurses are encouraged to seek outside lectures related to hematology, oncology or BMT to maintain current knowledge in the field of nursing.

8.2 Identify the principles of chemotherapy administration.

8.2.1 Identify the principles of chemotherapy administration.

8.2.2 Calculate a body surface area for a patient and correct dosing of chemotherapy.

8.2.3 Describe vesicant administration.

8.2.4 Identify safety precautions needed.

8.2.5 Identify the principles of stem cell transplantation. Identify safety precautions needed.

8.2.6 Calculate an absolute neutrophil count.

8.2.7 Identify the most common drugs used and their side effects.

8.2.8 Identify the phases of transplant.
8.2.9 Identify complications and nursing management for the transplant patient.

8.3 Satisfactory completion of the following tests is required for employment as a RN

8.3.1 Medication administration
8.3.2 Blood administration
8.3.3 Basic dysrhythmia
8.3.4 BMT/Chemotherapy Test

8.4 Ongoing education courses for nursing staff includes

8.4.1 The Oncology Core Curriculum offered each year, chemotherapy certification, BLS, Basic and Advanced ABMT classes offered twice a year.
8.4.2 Weekly ABMT lectures offered by the faculty are open to all nursing and support staff.

8.5 Specific training and maintenance of competencies for nurses shall include

8.5.1 Hematology/oncology patient care, including an overview of the cellular therapy process
8.5.2 Administration of
   8.5.2.1 Preparative regimens
   8.5.2.2 Blood products
   8.5.2.3 Cellular therapy products
   8.5.2.4 Supportive care therapies

8.6 Care interventions to manage cellular therapy complications, including, but not limited to

8.6.1 Cytokine release syndrome
8.6.2 Tumor lysis syndrome
8.6.3 Cardiac dysfunction
8.6.4 Respiratory distress
8.6.5 Neurologic toxicity
8.6.6 Macrophage activation
8.6.7 Renal and hepatic failure
8.6.8 Disseminated intravascular coagulation
8.6.9 Anaphylaxis
8.6.10 Neutropenic fever
8.6.11 Infectious and noninfectious processes
8.6.12 Mucositis
8.6.13 Nausea and vomiting
8.6.14 Pain management
8.7 Recognition of cellular therapy complications and emergencies required rapid notification of the transplant team.
8.8 Palliative and end of life care

9 RELATED DOCUMENTS/FORMS
9.1 Duke Oncology Core Curriculum
9.2 BMT study packet and chemotherapy test
9.3 Basic and Advanced BMT Curriculum

10 REFERENCES
10.1 N/A

11 REVISION HISTORY

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<th>Description of Change(s)</th>
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<tr>
<td>06</td>
<td>J. Frith</td>
<td>Added section 8.5 and 8.6</td>
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**Management**

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