

## Hematology/Oncology Fellowship Training Program

### Stem Cell Transplant – BMT Inpatient Service

#### *EDUCATIONAL GOALS:*

1. Be able to understand the main differences between autologous and allogeneic BMT
2. Be able to provide an overview of disease-specific indications for autologous and allogeneic BMT
3. Be familiar with the conditioning regimens and describe the expected toxicities/toxicity management of: Total Body Irradiation, Melphalan, Busulfan, Fludarabine, Cytosan, Carmustine, Cytarabine, and Etoposide
4. Describe the differences between non-myeloablative/reduced-intensity and myeloablative conditioning regimens, and be familiar with the basic indications
5. Describe neutropenic fever (NF) and management of NF in BMT recipients and describe the overview of different bacterial, viral and fungal infectious complications/ prophylaxis/ treatment/medications in BMT recipients according to the time of transplantation
6. Describe the non-infectious acute toxicities/management of BMT including pulmonary (BO, COP etc), renal (microangiopathy, drug-related etc) CNS (PRES etc) and liver (VOD, drug-related etc)
7. Be familiar with the main drug-drug interactions and dose adjustments in the BMT unit (i.e. Calcineurin inhibitors and Azoles, Topical GI corticosteroids and azoles etc)
8. Be familiar with the immunosuppressive medications and describe the main mechanism of action, toxicities and management including corticosteroids, rabbit and horse ATG, methotrexate, tacrolimus, cyclosporine, sirolimus, mycophenolate, campath and photopheresis etc
9. Describe acute GVHD/staging of the skin, gut and liver and the basic management
10. Describe chronic GVHD and be familiar with the 2005 NIH consensus for diagnosis and staging
11. Describe the indications of different blood products transfusion in the BMT unit, and the management of transfusion-related complications in general, and in particular, reactions to DSMO in frozen stem cells and ATG
12. Be proficient in bone marrow aspirations and biopsies
13. For all of the above, the Fellow should be able to justify their recommendations by employing appropriate literature

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*Fellow Signature*

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*Date*

*I have reviewed the educational goals for this rotation with the fellow.*

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*Attending signature*

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*Date*