

## MT2024-25: Allogeneic Hematopoietic Stem Cell Transplant for Patients with High Risk Hemoglobinopathies and Other Red Cell Transfusion Dependent Disorders

**Status:** Recruiting

### Eligibility Criteria

**Sex:** Male or Female

**Age Group:** 18 years and over

This study is NOT accepting healthy volunteers

#### Inclusion Criteria:

- 0 to 55 years old - diagnosis of sickle cell disease (SCD) with transfusion dependent alpha- or beta- thalassemia, diamond blackfan anemia, or other non-malignant hematologic disorders - sexually active people of childbearing potential or people with partners of childbearing potential must agree to use a highly effective form of contraception during study treatment and for at least 4 months after transplant - study staff will review additional requirements

#### Exclusion Criteria:

- women who are pregnant, breast feeding, or who plan to become pregnant during the study period - HIV positive - active uncontrolled infection

### Conditions & Interventions

#### Conditions:

Blood Disorders

#### Keywords:

Clinics and Surgery Center (CSC), SCD, Sickle cell disease

### More Information

**Description:** This study's strategy is to take a personalized approach, using a type of donor source combined with a drug regimen specific to that source. The common risks of a transplant approach include graft failure – when the transplant does not take; graft versus host disease (GVHD) – when the transplanted donor cells attack the recipient; and a late effect of infertility. We are studying whether this new approach with conditioning regimen matched with donor source is safer and more effective than our previous approach. Additionally, we are testing whether the dose of radiation will reduce the risk of graft failure.

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#### IRB

**Number:** STUDY00023330

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