

Indications for SCT:

- * The following table outlined the indications for Allogeneic and Autologous SCT/cellular therapy in **pediatric patients.**

Indication and Disease Status	SCT/ Cellular Therapy Type
Acute Myeloid Leukemia	
<ul style="list-style-type: none"> • CR1, Intermediate Risk (consideration) 	Allogeneic
<ul style="list-style-type: none"> • CR1, High Risk 	
<ul style="list-style-type: none"> • CR2 + 	
<ul style="list-style-type: none"> • Not in remission 	
<ul style="list-style-type: none"> • Acute Promyelocytic leukemia, relapse 	Allogeneic/Autologous
Acute lymphoblastic leukemia	
<ul style="list-style-type: none"> • CR1, High Risk 	Allogeneic Consider CART if indicated
<ul style="list-style-type: none"> • CR2, High risk, Positive MRD 	
<ul style="list-style-type: none"> • CR3+ 	
<ul style="list-style-type: none"> • Not in remission 	
Chronic Myeloid Leukemia	
<ul style="list-style-type: none"> • Failure of ≥ 2 TKIs (intolerance or resistance) 	Allogeneic
<ul style="list-style-type: none"> • Accelerated Phase 	
<ul style="list-style-type: none"> • Blast Phase 	
Myelodysplastic Syndromes	
<ul style="list-style-type: none"> • Low Risk 	Allogeneic
<ul style="list-style-type: none"> • High Risk 	
<ul style="list-style-type: none"> • Juvenile Myelomonocytic Leukemia 	
<ul style="list-style-type: none"> • Therapy related 	

Indication and Disease Status	SCT/ Cellular Therapy Type
T-cell non-Hodgkin Lymphoma	
• CR1, High Risk (consider)	Allogeneic/ Autologous
• CR2	
• CR3+	
• Not in remission	
Burkitt's Lymphoma	
• First or greater relapse, sensitive	Allogeneic/Autologous
• First or greater relapse, resistant	Allogeneic
Hodgkin Lymphoma	
• Primary refractory, sensitive	Autologous
• Primary refractory, resistant	Allogeneic
• First relapse, sensitive	Autologous
• First relapse, resistant	Allogeneic
• Second or greater relapse	Allogeneic/Autologous
Anaplastic large cell lymphoma	
• Primary refractory, sensitive	Allogeneic/Autologous
• Primary refractory, resistant	Allogeneic
• First relapse, sensitive	Allogeneic/Autologous
• First relapse, resistant	Allogeneic
• Second or greater relapse	Allogeneic/Autologous
Solid Tumors	
• Germ cell tumor, relapse	Autologous
• Germ cell tumor, refractory	
• Ewing's Sarcoma, high risk or relapse	
• Neuroblastoma, high risk or relapse	
• Wilms tumor, relapse	
• Osteosarcoma, high risk	
• Medulloblastoma, high risk	
• Other malignant brain tumors	

Indication and Disease Status	SCT Type
Non-malignant diseases	
<ul style="list-style-type: none"> • Severe aplastic anemia, new diagnosis 	Allogeneic
<ul style="list-style-type: none"> • Severe aplastic anemia, relapse/refractory 	
<ul style="list-style-type: none"> • Fanconi's anemia 	
<ul style="list-style-type: none"> • Dyskeratosis congenita 	
<ul style="list-style-type: none"> • Blackfan-Diamond anemia 	
<ul style="list-style-type: none"> • Sickle Cell Disease 	
<ul style="list-style-type: none"> • Thalassemia 	
<ul style="list-style-type: none"> • Congenital amegakaryocytic thrombocytopenia 	
<ul style="list-style-type: none"> • Severe combined immunodeficiency 	
<ul style="list-style-type: none"> • T-cell immunodeficiency, SCID variants 	
<ul style="list-style-type: none"> • Wiskott-Aldrich Syndrome 	
<ul style="list-style-type: none"> • Hemophagocytic disorders 	
<ul style="list-style-type: none"> • Lymphoproliferative disorders 	
<ul style="list-style-type: none"> • Severe congenital neutropenia 	
<ul style="list-style-type: none"> • Chronic granulomatous disease 	
<ul style="list-style-type: none"> • Other phagocytic cell disorders 	
<ul style="list-style-type: none"> • IPEX syndrome 	
<ul style="list-style-type: none"> • Other autoimmune and immune dysregulation disorders 	
<ul style="list-style-type: none"> • Mucopolysaccharidosis (MPS-I and MPS-VI) 	
<ul style="list-style-type: none"> • Other metabolic diseases 	
<ul style="list-style-type: none"> • Osteopetrosis 	
<ul style="list-style-type: none"> • Globoid cell leukodystrophy (Krabbe) 	
<ul style="list-style-type: none"> • Metachromatic leukodystrophy 	
<ul style="list-style-type: none"> • Juvenile rheumatoid arthritis 	Autologous
<ul style="list-style-type: none"> • Systematic sclerosis 	

- * The following table outlined the indications for Allogeneic and Autologous SCT/ cellular therapy in **adult patients**

Indication and Disease Status	SCT/ Cellular Therapy Type
Non-Hodgkin Lymphoma (Must achieve at least PR – not needed in CAR-T cell therapy)	
<ul style="list-style-type: none"> • 1st remission in: <ul style="list-style-type: none"> ○ Mantel Cell Lymphoma ○ High risk T/NK cell lymphoma ○ Double hit DLBCL ○ Transformed indolent lymphoma / SLL (Richter's syndrome) ○ Primary CNS Lymphoma 	Allogeneic/Autologous CAR-T (For B Cell NHL)
<ul style="list-style-type: none"> • Primary refractory, but chemosensitive to subsequent lines of therapy 	
<ul style="list-style-type: none"> • $\geq 2^{\text{nd}}$ remission, <ul style="list-style-type: none"> ○ Aggressive B or T cell NHL ○ High Grade B Cell NHL (Burkitt or Lymphoblastic Lymphoma) ○ Low Grade Lymphoma ○ Cutaneous T Cell Lymphoma 	
<ul style="list-style-type: none"> • Relapse after autologous transplant 	Allogeneic/ CAR-T
<ul style="list-style-type: none"> • CLL / SLL 	Allogeneic

Hodgkin Lymphoma	
• Primary refractory, chemosensitive	Autologous
• $\geq 2^{\text{nd}}$ remission, chemosensitive	
• Relapse after autologous transplant	Allogeneic
Multi-system Langerhans Cell Histiocytosis	Allogeneic
• Relapsed/ Refractory	
Plasma Cell malignancies	
• Multiple Myeloma	
○ 1 st remission, front line	Autologous
○ Relapse post autologous SCT	
○ Tandem if patient is high risk or plasma cell leukemia or not meeting VGPR post 1 st autologous SCT	Allogeneic/Autologous
○ Refractory/relapse after three lines of prior therapy including an immunomodulatory agent, a proteasome inhibitor and an anti-CD38	CAR-T
• Amyloidosis	Autologous
• POEMS	Autologous
Acute Myeloid Leukemia	
• CR1, Intermediate Risk	Allogeneic
• CR1, High Risk	
• CR2 or more	
• Acute Promyelocytic leukemia, relapse	Allogeneic/Autologous

Indication and Disease Status	SCT/ Cellular Therapy Type
Acute lymphoblastic leukemia	
<ul style="list-style-type: none"> • CR1, MRD positive at end of induction or High Risk 	Allogeneic/ CAR-T
<ul style="list-style-type: none"> • CR2 or more 	Allogeneic/ CAR-T
Chronic Myeloid Leukemia	
<ul style="list-style-type: none"> • Failure of ≥ 2 TKIs (intolerance or resistance) 	Allogeneic
<ul style="list-style-type: none"> • Accelerated or Blast Crisis 	
<ul style="list-style-type: none"> • T315I mutation consideration 	
Myelodysplastic Syndromes	
<ul style="list-style-type: none"> • Intermediate-2 or high-risk disease 	Allogeneic
<ul style="list-style-type: none"> • Therapy related MDS 	
MF with intermediate-2 or high risk	Allogeneic
Non-malignant diseases	
<ul style="list-style-type: none"> • Severe aplastic anemia, new diagnosis 	Allogeneic
<ul style="list-style-type: none"> • Severe aplastic anemia, relapse/refractory 	
<ul style="list-style-type: none"> • Paroxysmal Nocturnal Hematuria 	
<ul style="list-style-type: none"> • Fanconi's anemia 	
<ul style="list-style-type: none"> • Dyskeratosis congenita 	
<ul style="list-style-type: none"> • Blackfan-Diamond anemia 	
<ul style="list-style-type: none"> • Sickle Cell Disease 	
<ul style="list-style-type: none"> • Thalassemia 	
<ul style="list-style-type: none"> • Other congenital BM failure syndromes 	
Solid Tumors	
<ul style="list-style-type: none"> • Germ cell tumor, refractory 	Autologous
<ul style="list-style-type: none"> • Ewing's Sarcoma, high risk or relapse 	
<ul style="list-style-type: none"> • Testicular Tumors 	
Others	
<ul style="list-style-type: none"> • HLH 	Allogeneic
<ul style="list-style-type: none"> • Autoimmune disorders 	Allogeneic/Autologous
<ul style="list-style-type: none"> • Primary Immunodeficiency disorders 	Allogeneic