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Standard Therapies -
Cord Blood

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Clinical Trials with Blood -
Forming Stem Cells

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Gene Therapy for Inherited Disorders
Using Blood - Forming Stem Cells

04

Clinical Trials with Cord Tissue
Stem Cells

Anaemias

- Aplastic Anaemia
- Congenital Dyserythropoietic Anaemia
- Fanconi Anaemia
- Paroxysmal Nocturnal Haemoglobinuria (PNH)

Leukaemia

Acute Leukaemia

- Acute Lymphoblastic Leukaemia (ALL)
- Acute Myelogenous Leukaemia (AML)
- Acute Biphenotypic Leukaemia
- Acute Undifferentiated Leukaemia

Chronic Leukaemia

- Chronic Myelogenous Leukaemia (CML)
- Chronic Lymphocytic Leukaemia (CLL)
- Juvenile Chronic Myelogenous Leukaemia (JCML)
- Juvenile Myelomonocytic Leukaemia (JMML)

Myelodysplastic Syndromes (pre-leukaemia)

- Refractory Anemia (RA)
- Refractory Anemia with Ringed Sideroblasts (RARS)
- Refractory Anemia with Excess Blasts (RAEB)
- Refractory Anemia with Excess Blasts in Transformation (RAEB-T)
- Chronic Myelomonocytic Leukemia (CMML)

Lymphomas

- Hodgkin's Lymphoma
- Non-Hodgkin's Lymphoma (Burkitt's Lymphoma)

Bone Marrow Cancers (Plasma Cell Disorders)

- Multiple Myeloma
- Plasma Cell Leukaemia
- Waldenstrom's Macroglobulinemia

Solid Tumors (originating outside the blood and immune system)

- Neuroblastoma
- Medulloblastoma
- Retinoblastoma



Myeloproliferative Disorders

- Acute Myelofibrosis
- Agnogenic Myeloid Metaplasia (**Myelofibrosis**)
- Polycythemia Vera
- Essential Thrombocythemia

Phagocyte Disorders

- Chediak-Higashi Syndrome
- Chronic Granulomatous Disease
- Neutrophil Actin Deficiency
- Reticular Dysgenesis

Inherited Red Cell Abnormalities

- Beta Thalassemia Major
- Diamond-Blackfan Anemia
- Pure Red Cell Aplasia
- Sickle Cell Disease

Inherited Platelet Abnormalities

- Amegakaryocytosis / Congenital Thrombocytopenia
- Glanzmann Thrombasthenia

Inherited Metabolic Disorders

Mucopolysaccharidoses (MPS) Storage Diseases

- Mucopolysaccharidoses (**MPS**)
- Hurler's Syndrome (**MPS-IH**)
- Scheie Syndrome (**MPS-IS**)
- Hunter's Syndrome (**MPS-II**)
- Sanfilippo Syndrome (**MPS-III**)
- Morquio Syndrome (**MPS-IV**)
- Maroteaux-Lamy Syndrome (**MPS-VI**)
- Sly Syndrome, Beta-Glucuronidase Deficiency (**MPS-VII**)
- Mucopolipidosis II (**I-cell Disease**)

Leukodystrophy Disorders

- Adrenoleukodystrophy (**ALD**) / Adrenomyeloneuropathy (**AMN**)
- Krabbe Disease (**Globoid Cell Leukodystrophy**)
- Metachromatic Leukodystrophy
- Pelizaeus-Merzbacher Disease

Lysosomal Storage Diseases

- Niemann-Pick Disease
- Sandhoff Disease
- Wolman Disease

Other

- Lesch-Nyhan Syndrome
- Osteopetrosis

Inherited Immune System Disorders

Severe Combined Immunodeficiency (SCID)

- SCID with Adenosine Deaminase Deficiency (ADA-SCID)
- SCID which is X-linked
- SCID with absence of T and B Cells
- SCID with absence of T Cells, Normal B Cells
- Omenn Syndrome

Neutropenias

- Kostmann Syndrome
- Myelokathexis

Other

- Ataxia-Telangiectasia
- Bare Lymphocyte Syndrome
- Common Variable Immunodeficiency
- DiGeorge Syndrome
- Hemophagocytic Lymphohistiocytosis
- Leukocyte Adhesion Deficiency
- Lymphoproliferative Disorders (LPD)
- Lymphoproliferative Disorder, X-linked
- Wiskott-Aldrich Syndrome

Inherited Disorders effecting the Immune System and Other Organs

- Cartilage-Hair Hypoplasia
- Gunther's Disease (Erythropoietic Porphyria)
- Hermansky-Pudlak Syndrome
- Pearson's Syndrome
- Shwachman-Diamond Syndrome
- Systemic Mastocytosis



Neurological Disorder

- Cerebral Palsy
- Hypoxic Ischemic Encephalopathy (HIE)
- Spinal Cord Injury
- Autism
- Hearing Loss (acquired sensorineural)

Autoimmune Disorders

- Amyotrophic Lateral Sclerosis (ALS)
- Crohn's Disease
- Diabetes Type 1
- Graft-versus-Host-Disease (GVHD)
- Kidney Plus Stem Cell Transplant
- Lupus
- Multiple Sclerosis
- Rheumatoid Arthritis
- Scleroderma



Cardiovascular

Congenital Defects

- Support for Misc. Open Heart Surgery
- Hypoplastic Left Heart Syndrome (HLHS) Grow Vascular Graft

Ischemia

- Critical Limb Ischemia (CLI)
- Compartment Syndrome (Battlefield Trauma)
- Ischemic stroke
- Ischemic Heart Disease

Cardiac Repair

- Myocardial Infarction
- Cardiomyopathy

- Adrenoleukodystrophy
- Chronic Granulomatous Disease (X-linked)
- Fanconi Anemia
- HIV
- Metachromatic Leukodystrophy
- Severe Combined Immunodeficiency
- Thalassemia
- Sickle Cell
- Wiskott-Aldrich Syndrome

Orthopedic

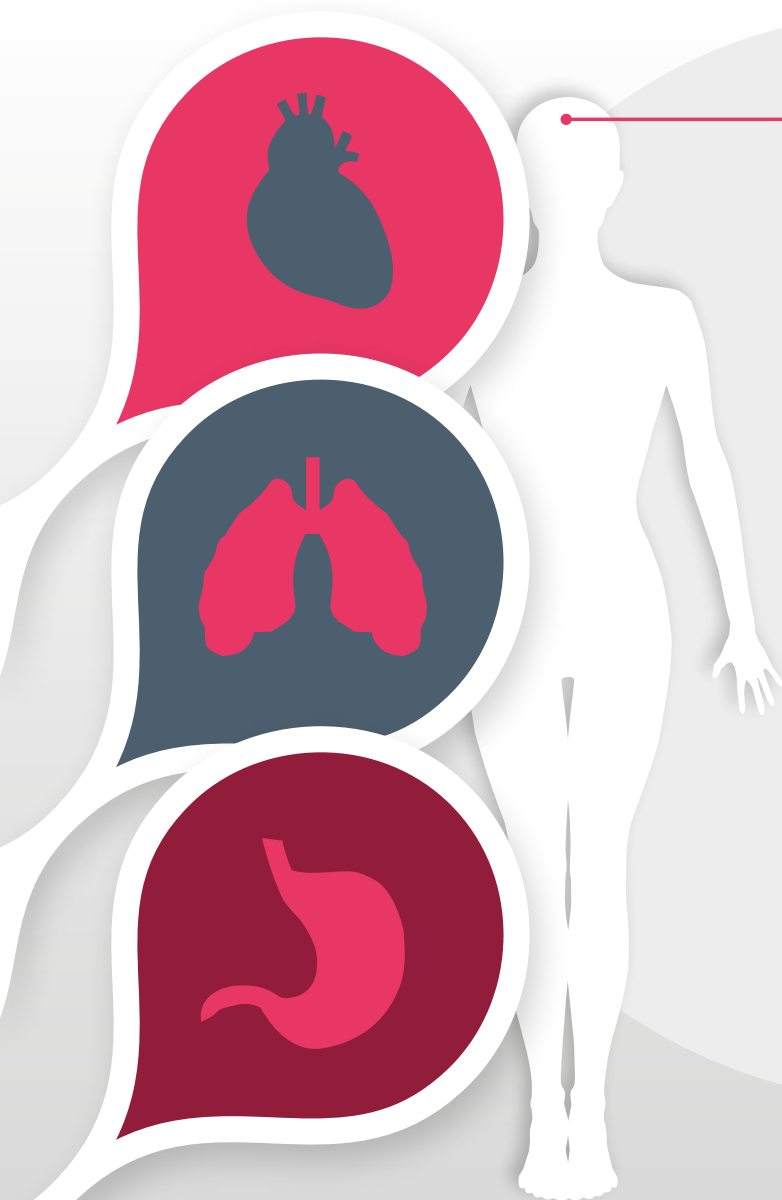
- Alveolar Cleft Palate Repair
- Knee Cartilage Repair

Miscellaneous

- Epidermolysis Bullosa
- AIDS
- Lysosomal Storage Disease
- Bronchopulmonary Dysplasia (BPD)



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|------------------------------|------------------------------|
| • Alzheimer's Disease | • Retinitis pigmentosa |
| • Aplastic Anemia | • Sepsis |
| • Cerebral Palsy | • Stroke |
| • Diabetes, Type 2 | • Traumatic optic neuropathy |
| • Liver Failure | • Ulcerative colitis |
| • Multiple Sclerosis | |
| • Rheumatoid Arthritis | |
| • Spinal Cord Injury | |
| • Cartilage Repair | |
| • Connective Tissue Diseases | |
| • Erectile Dysfunction | |
| • Lung Injury | |
| • Lupus | |
| • Muscular Dystrophy | |
| • Myocardial Infarction | |
| • Osteoarthritis | |
| • Ovarian failure | |
| • Parkinson's disease | |
| • Psoriasis | |



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