

# List of medical conditions treated with stem cells

## Acute leukaemias

- ✓ acute lymphoblastic leukaemia (ALL)
- ✓ acute myeloid leukaemia (AML)
- ✓ acute biphenotypic leukaemia
- ✓ poorly differentiated acute leukaemia

## Chronic leukaemias

- ✓ chronic myeloid leukaemia (CML)
- ✓ chronic lymphocytic leukaemia (CLL)
- ✓ juvenile chronic myeloid leukaemia (JCML)
- ✓ juvenile myelomonocytic leukaemia (Naegeleg leukaemia) (JMML)

## Myelodysplastic syndrome

- ✓ refractory anaemia (RA)
- ✓ refractory anaemia with ringed sideroblasts (RARS)
- ✓ refractory anaemia with excess blasts (RAEB)
- ✓ refractory anaemia with excess blasts in transformation (RAEB-T)
- ✓ chronic myelomonocytic leukaemia (CMML)

## Diseases caused by stem cell defect

- ✓ aplastic anaemia (severe)
- ✓ Fanconi anaemia
- ✓ paroxysmal nocturnal haemoglobinuria

## Myeloproliferative syndromes

- ✓ acute myelofibrosis
- ✓ myelofibrosis
- ✓ polycythaemia vera
- ✓ Essential thrombocythemia

## Hyperplastic disorders of lymphatic system

- ✓ non-Hodgkin lymphoma
- ✓ acute lymphogranuloma
- ✓ prolymphocytic leukaemia

## Phagocytic disorders

- ✓ Chediak-Higashi syndrome
- ✓ chronic granulomatous disease (CGD)
- ✓ neutrophil actin dysfunction
- ✓ reticular dysgenesis

## Disorders caused by the absence or malfunctioning of enzymes

- ✓ mucopolysaccharidoses (MPS)
- ✓ Scheie syndrome (MPS-IS)
- ✓ Hunter syndrome (MPS-II)
- ✓ Sanfilippo syndrome (MPS-III)
- ✓ Morquio syndrome (MPS-IV)
- ✓ Maroteaux-Lamy syndrome (MPS-VI)
- ✓ Sly syndrome, beta-glucuronidase deficiency (MPS-VII)
- ✓ adrenoleukodystrophy
- ✓ mucopolipidosis II
- ✓ Krabbe disease
- ✓ Gaucher disease
- ✓ Niemann-Pick disease
- ✓ Wolman disease
- ✓ metachromatic leukodystrophy

## Histiocytic disorders

- ✓ familial erythrophagocytic lymphohistiocytosis
- ✓ histiocytosis -X
- ✓ hemophagocytosis

## Inherited red blood cell abnormalities

- ✓ beta thalassemia
- ✓ histiocytosis -X
- ✓ hemophagocytosis

## Inherited immune system disorders

- ✓ telangiectasia
- ✓ Kostmann syndrome
- ✓ leukocyte adhesion deficiency
- ✓ DiGeorge syndrome
- ✓ bare lymphocyte syndrome
- ✓ Omenn syndrome
- ✓ severe combined immunodeficiency (SCID)
- ✓ SCID adenosine deaminase deficiency
- ✓ SCID T and B lymphocytes negative
- ✓ SCID T lymphocytes negative and B lymphocytes positive
- ✓ common variable immunodeficiency
- ✓ Wiskotta Aldrich syndrome
- ✓ X-linked lymphoproliferative disorder

## Other inherited conditions

- ✓ Lesch-Nyhan syndrome
- ✓ cartilage-hair hypoplasia
- ✓ Glanzmann's thrombasthenia
- ✓ osteopetrosis (marble bone disease)

## Hereditary thrombotic disorders

- ✓ mega-karyocytosis (inherited thrombocythemia)

## Plasma cell disorders

- ✓ multiple myeloma
- ✓ plasmocytic leukaemia
- ✓ Waldenström's macroglobulinemia

## Other forms of cancer

- ✓ breast cancer
- ✓ Ewing's sarcoma
- ✓ neuroblastoma (sympathicoblastoma)
- ✓ kidney cancer

Use of stem cells brings benefits to patients with neurological disorders such as: autism and cerebral palsy