

Therapies in Clinical Trials

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A “clinical trial” is a study in human patients for an emerging therapy that has not been adopted as standard therapy.

Parents’ Guide to Cord Blood Foundation has a portal that allows patients to search worldwide for currently recruiting clinical trials with either umbilical cord blood or cord tissue.

The below table (and on the following pages) shows all diagnoses that have ever been treated in clinical trials with cord blood or cord tissue, regardless of whether the clinical trials are still open:

Neurologic Disorder

Diagnosis	Cord Blood Allogeneic	Cord Blood Autologous	Cord Tissue Allogeneic
Alzheimer’s disease	X		X
Autism	X	X	X
Cerebral palsy	X	X	X
Encephalopathy		X	
Global developmental delay	X	X	
Hearing loss (acquired sensorineural)		X	
Intraventricular Haemorrhage	X	X	
Parkinson’s disease	X		X
Spinal cord injury	X		X
Stroke	X	X	X
Traumatic brain injury	X	X	X

Auto-Immune Disorders

Diagnosis	Cord Blood Allogeneic	Cord Blood Autologous	Cord Tissue Allogeneic
Alopecia areata	X		
Amyotrophic Lateral Sclerosis (ALS)	X		X
Crohn’s disease	X		
Eczema (Atopic Dermatitis)	X		
Graft-versus-Host Disease (GvHD)	X		X
Lupus	X		X
Multiple sclerosis			X
Psoriasis			X
Rheumatoid arthritis	X		X
Systemic sclerosis	X		
Ulcerative colitis			X

Cardiovascular

Diagnosis	Cord Blood Allogeneic	Cord Blood Autologous	Cord Tissue Allogeneic
Acute myocardial infarction (Heart Attack)			X
Cardiomyopathy			X
Critical limb ischemia (CLI)	X		X
Heart Failure			X
Peripheral arterial disease (PAD)	X		X
Surgery for congenital heart defects		X	

Diabetic

Diagnosis	Cord Blood Allogeneic	Cord Blood Autologous	Cord Tissue Allogeneic
Diabetes, Type 1 (Auto-immune)	X	X	
Diabetes, Type 2	X	X	X
Diabetic foot ulcer			X
Diabetic peripheral neuropathy			X

Genetic and/or Metabolic Disorders

Diagnosis	Cord Blood Allogeneic	Cord Blood Autologous	Cord Tissue Allogeneic
Aging frailty	X		X
Duchenne muscular dystrophy			X
Epidermolysis bullosa	X		
Hereditary ataxia			X
Lysosomal storage	X		
Metabolic syndrome			X
Severe combined immunodeficiency		X	
Spinal muscular atrophy			X
Tay-Sachs	X		

Orthopaedic

Diagnosis	Cord Blood Allogeneic	Cord Blood Autologous	Cord Tissue Allogeneic
Ankylosing spondylitis			x
Cartilage injury	x		x
Cleft palate repair			x
Non-Union fractures			x
Osteoarthritis	x		x
Osteochondral lesion	x		
Spinal fusion surgery			x

Other

Diagnosis	Cord Blood Allogeneic	Cord Blood Autologous	Cord Tissue Allogeneic
Acute respiratory distress syndrome (ARDS)		x	x
Bronchopulmonary dysplasia (BPD) (lung disorder due to premature birth)	x	x	x
Erectile dysfunction			x
Eye diseases	x		x
Fistula			x
HIV	x		
Kidney failure			x
Liver cirrhosis	x		x
Liver failure	x		x
Peyronie's disease			x
Premature ovarian	x		x
Uterine scars			x
Wounds			x

As clinical trials are constantly being updated, if you would like to find out more about emerging therapies using cord blood and cord tissue visit the following websites for a comprehensive list: www.clinicaltrials.gov or visit the Parents Guide to Cord Blood Foundation clinical trial search engine: www.parentsguidecordblood.org/en/trials

The likelihood of your child contracting a life-threatening disease is not high and hopefully you will never need the stem cells. However, as medical sciences progresses and more diseases become treatable using stem cells, the likelihood of them being required during your lifetime will increase.

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There are also many experimental therapies that are not yet in human clinical trials for a diverse range of medical conditions.

These are being studied either in the laboratory with cell cultures or in animal models similar to the human disease.