Supplementary table 01

Table summarizing ongoing and completed clinical trials in India, data are combined from information obtained from clinicaltrials.gov and Clinical Trials Registry India (CTRI).

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ID number** | **Title** | **Cell type** | **Origin** | **Target disease** | **Organ** | **Study phase** | **No. patients enrolled** | **Status, Result** |
| NCT04243681 | Combination of Autologous MSC and HSC Infusion in Patients with Decompensated Cirrhosis | Bone marrow-derived CD34+ and MSC | Autologous | Liver Cirrhosis | Liver | Phase 4 | 5 | Completed, no result posted |
| NCT01065298 | Efficacy of Autologous Bone Marrow Derived Stem Cell Transplantation in Patients with Type 2 Diabetes Mellitus-2 | Bone marrow-derived MNC | Autologous | Type 2 Diabetes Mellitus | Pancreas | N/A | 30 | Completed, no result posted |
| NCT00644241 | Efficacy of Autologous Bone Marrow Derived Stem Cell Transplantation in Patients with Type 2 Diabetes Mellitus (SCT) | Bone marrow-derived Stem cells | Autologous | Type 2 Diabetes Mellitus | Pancreas | Phase 2 | 10 | Completed, no result posted |
| NCT01759823 | Bone Marrow Derived Stem Cell Transplantation in T2DM | Bone marrow-derived MSC and MNCs | Autologous | Type 2 Diabetes Mellitus | Pancreas | Phase 3 | 30 | Completed, results in the reduction of insulin dosage and improvement in C- peptide in T2Dm patients. PMID: 28690682 |
| NCT01186679 | Safety and Efficacy of Autologous Bone Marrow Stem Cells in Treating Spinal Cord Injury (ABMST-SCI) | Bone marrow-derived Stem cells | Autologous | Spinal Cord Injuries | Lumbar, Spinal cord | Phase 2 | 12 | Completed, no result posted |
| NCT00883870 | Mesenchymal Stem Cells in Critical Limb Ischemia | Bone marrow-derived MSC | Autologous | Critical Limb Ischemia | Limb | Phase 2 | 20 | Completed, results in Intramuscular administration are safe. PMID: 23758736 |
| NCT00883727 | Ex Vivo Cultured Bone Marrow Derived Allogenic MSCs in AMI | Bone marrow-derived MSC | Allogenic | Myocardial Infarction | Heart | Phase 2 | 20 | Completed, results in intravenous administration of Stempeucel® is safe and well- tolerated. PMID: 25484310 |
| NCT02425670 | Stem Cell Therapy for Acute Ischemic Stroke Patients (InVeST) | Bone marrow-derived MNC | Autologous | Acute Stroke | Brain | Phase 2 | 120 | Completed, BMSCs are safe and no beneficial effect on stroke treatment. PMID: 25378424 |
| NCT01453738 | Allogeneic Mesenchymal Stem Cells in Osteoarthritis | Bone marrow-derived MSC | Allogenic | Osteoarthritis | Knee Joint | Phase 2 | 60 | Completed, Intra- articular administration is safe and minimum of 25 million cell doses can be effective. PMID: 27993154 |
| NCT04340284 | Adipose Tissue Derived Stromal Vascular Fraction (SVF) Application in Treatment of Long Bones non-union | Bone marrow-derived MSC | Autologous | Non-union of Fracture | Bone | Phase 2 | 11 | Completed, no result posted |
| NCT01591200 | Dose Finding Study to Assess Safety and Efficacy of Stem Cells in Liver Cirrhosis | Bone marrow-derived MSC | Allogenic | Alcoholic Liver Cirrhosis | Liver | Phase 2 | 40 | Completed, no result posted |
| NCT00595257 | Feasibility Study of Autologous Bone Marrow Aspirate Concentrate for Treatment of CLI | Bone Marrow Aspirate Concentrate (BMAC) | Autologous | Arterial Occlusive Diseases | Limb | Phase 2 | 60 | Completed, no result posted |
| NCT01484574 | A Clinical Trial to Study the Efficacy and Safety of Different Doses of Bone Marrow Derived Mesenchymal Stem Cells in Patients with Critical Limb Ischemia Due to Buergers Disease | Bone marrow-derived MSC | Allogenic | Critical Limb Ischemia and Buerger's Disease | Limb | Phase 2 | 90 | Completed, no result posted |
| NCT01472289 | Safety and Efficacy of Autologous Bone Marrow Mononuclear Cells in Patients with Severe Critical Limb Ischemia | Bone marrow-derived MNC | Autologous | Critical Limb Ischemia | Limb | Phase 2 | 17 | Completed, Result posted |
| NCT03295292 | Limbus-derived Stem Cells for Prevention of Postoperative Corneal Haze | Limbus derived stem cells | Allogenic | Corneal Scars and Opacities | Eye | Phase 1 | 15 | Recruiting, results in the remediation of cornea wounds and scars. PMID: 25504883 |
| NCT04623606 | Boost to Brittle Bones - Stem Cell Transplantation for Treatment of Brittle Bones (BOOST2B) | Fetal liver-derived MSC | Allogenic | Osteogenesis Imperfecta | Bone | Phase 2 | 15 | Recruiting and No result posted |
| CTRI/2008/091/000232 | Efficacy of Stem cell in improvement of left ventricular function in patients with acute Myocardial Infarction | Bone marrow-derived Stem cells | Autologous | Acute myocardial Infarction | Heart | Phase 3 | - | Recruiting across the world population but not in India, concluded with safe in the procedure but there is no benefit in the ST elevation in acute  Myocardial Infarction patients |
| CTRI/2021/01/030327 | Role of autologous bone marrow mononuclear stem cells in children with neurological deficits due to polio infection | Bone marrow-derived MNC | Autologous | Poliomyelitis | Bone marrow | Phase 2 | 5 | Completed, BMNC have the potential to recruit damaged neurons and muscle fibers in poliomyelitis. |
| CTRI/2010/091/000565 | Induction of therapeutic Angiogenesis in Limb Ischemia by Intra-arterial delivery of Autologous bone marrow derived stem cells | Bone marrow-derived Stem cells | Autologous | Limb Ischemia | Heart | Phase 2 | 80 | Completed, no result posted |
| CTRI/2014/09/005027 | Treatment of large segmental bone defects with custom made triphasic hydroxyapaptite scaffolds loaded with mesenchymal stem cells in children. | MSC | Allogenic | hematogenous osteomyelitis, Pathological fracture | Bone | Phase 1 | 10 | Completed, no result posted |
| CTRI/2017/12/011046 | Immunosuppression minimization protocols in living related kidney transplantation | HSCs and Ad- MSCs | Allogenic | Renal disease | Kidney | N/A | 1325 | Completed, Tolerance induction protocol results showed in improvement of patient’s survival, lower immunosuppression and fewer rejection. |
| CTRI/2009/091/000667 | Prospective open-labeled clinical study to evaluate the safety and efficacy of R-HSC-001 in patients with Parkinsons Disease. | Bone marrow-derived MSC | Autologous | Parkinson’s Disease | Brain and Spinal cord | Phase 1 | 10 | Recruiting and No result posted |
| CTRI/2010/091/001469 | A Clinical Trial to study the safety & effectiveness of Adult Stem Cells derived from Bone Marrow via different routes of administration in the treatment of patients with complete Spinal Cord Injury (SCI) | Bone marrow-derived Stem cells | N/A | Spinal Cord Injuries | Spinal cord | Phase 3 | 100 | Recruiting and No result posted |
| CTRI/2011/091/000159 | A clinical trial to study the safety and efficacy of Bone marrow derived Autologous cells for the treatment of cerebral palsy in subjects above 15 years. | Bone marrow-derived Stem cells | Autologous | cerebral palsy | Brain | Phase 3 | 100 | Recruiting and No result posted |
| CTRI/2013/08/003896 | Role of Sub- endometrial implantation of autologous stem cells in women with Asherman’s Syndrome and poor endometrium – A Pilot study. | Bone marrow -derived HSC | Autologous | Asherman syndrome | Uterus | Phase 4 | 20 | Recruiting and No result posted |
| CTRI/2015/01/005355 | Autologous bone marrow derived progenitor cell therapy in critical limb ischemia (CLI) and foot ulcer in diabetes | Bone marrow -derived HSC | Autologous | Critical Limb Ischemia | Limb | Phase 2 | 48 | Recruiting and No result posted |
| CTRI/2015/04/005716 | A Pilot Study on the Efficacy of Autologous Bone Marrow Derived Mesenchymal Stem Cells in Systemic Lupus Erythematosus | Bone marrow-derived MSC | Autologous | Systemic lupus erythematosus | - | Phase 2 | 10 | Recruiting and No result posted |
| CTRI/2017/11/010429 | Autologous Transfusion of Mobilized Peripheral Blood CD 34 Positive Cells in Patients with Liver Cirrhosis | CD34+ cells | Autologous | Liver Cirrhosis | Liver | Phase 4 | 195 | Recruiting and No result posted |
| CTRI/2019/12/022351 | A study to see the effects of stem cells in patients with Non-Healing Diabetic Foot Ulcer | Bone marrow-derived MSC | Allogenic | Type 2 Diabetes Mellitus | Pancreas | Phase 3 | 84 | Recruiting and No result posted |