SUPPLEMENTARY TABLE S2.	TISSUE ENGINEERING-SPECIFIC CLINICAL TRIALS	
-------------------------	---------------------------------------------	--

Category	Title	Phase	Sponsors/ collaborators
Biomaterials	A Comparative Postmarketing Study of Commercially Available Peripheral Nerve Gap Repair Options	Phase 4	Industry
Biomaterials	A Safety and Efficacy Study of INTEGRA <sup>®</sup> Dermal Regeneration Template for the Treatment of Diabetic Foot Ulcers	Not applicable	Industry
Cells and biomaterials	A Safety Surveillance Study in Subjects with Macular Degenerative Disease Treated with Human Embryonic Stem Cell-Derived Retinal Pigment Epithelial Cell Therapy	Phase 1 phase 2	Industry
Stem cells	A Study of Modified Stem Cells in Traumatic Brain Injury (TBI)	Phase 2	Industry
Biomaterials Stem cells	A Study of VentriGel in Post-MI Patients A Study to Investigate the Safety and Possible Clinical Benefit of Multistem(r) in Patients with Moderate to Severe Ulcerative Colitis	Phase 1 Phase 2	Industry Industry
Biomaterials	Acellular Porcine Dermal Matrix Wound Dressing in the Management of Diabetic Foot Ulcers	Phase 3	Industry, academia
Stem cells	Allogeneic Heart Stem Cells to Achieve Myocardial Regeneration	Phase 1 phase 2	Industry, governmen
Biomaterials Cells and biomaterials	Amniotic Membrane in Total Knee Replacements to Reduce Scarring Bio ACL Reconstruction Amnion Collagen Matrix Wrap and Stem Cells	Not applicable Not Applicable	Industry Industry, academia
Biomaterials	Bridge-Enhanced ACL Repair vs ACL Reconstruction	Not applicable	Hospital
Biomaterials Biomaterials	Bridge-Enhanced ACL Repair-Safety Study (BEAR Trial) Case Series of Weekly Applications of dHACM in Treatment of Pressure Ulcers	Phase 1 Not applicable	Hospital Industry
Stem cells	CNS10-NPC-GDNF for the Treatment of ALS	Phase 1	Hospital, governmen
Biomaterials	Comparative Study of Amniotic Membrane Wound Graft in the Management of Diabetic Foot Ulcers	Not Applicable	Industry
Biomaterials	Comparative Study of Two Application Regimens of Amniotic Membrane Wound Graft in the Management of Diabetic Foot Ulcers	Not applicable	Industry
Biomaterials	Dehydrated Human Amnion Chorion Membrane (dHACM) vs. Control in the Treatment of Partial Thickness Burns.	Not applicable	Industry
Biomaterials	Dehydrated Human Umbilical Cord Allograft in the Management of Diabetic Foot Ulcers	Not applicable	Industry
Biomaterials	DermACELL in Subjects with Chronic Wounds of the Lower Extremities	Phase 4	Industry
Biomaterials Biomaterials	dHACM in Lumbar Decompression and Microdiscectomy Surgery dHACM Mesh in the Treatment of Diabetic Foot Ulcers	Not applicable Not applicable	Industry Industry
Biomaterials	DHACM vs Other Commercially Available Treatments	Not applicable	Industry
stem cells	Dose Escalation Study of AST-OPC1 in Spinal Cord Injury	Phase 1 phase 2	Industry
Cells and biomaterials	Endoscopic Mucosal Resection and Cellular Matrix	Not applicable	Hospital
Biomaterials	Enhancing Guided Bone Regeneration by Modifying a Resorbable Membrane	Not applicable	Academia
Biomaterials Stem cells	Evaluate Esophageal Reinforcement with ACell MatriStem Surgical Matrix: A Degradable Biologic scaffold Material Evaluation of Safety and Exploratory Efficacy of CARTISTEM <sup>®</sup> , a	Phase 2 Phase 1 phase 2	Industry, hospital Industry
Cells and	Cell Therapy Product for Articular Cartilage Defects Evaluation of Trinity Evolution in Patients Undergoing Foot and	Not applicable	Industry
biomaterials Cells and	Ankle Fusion Feasibility Study of the TGI Adipose-derived Stromal Cell (ASC)-	Not applicable	Industry
biomaterials Stem cells	Coated ePTFE Vascular Graft Follow-up Study of Chondrogen <sup>®</sup> Delivered by Intra-Articular	Phase 1 phase 2	Industry
Biomaterials	Injection Following Meniscectomy Grafix <sup>®</sup> DFU: Open-Label Extension Option to Evaluate Safety &	Phase 4	Industry
Biomaterials	Efficacy of Grafix <sup>®</sup> for Chronic Diabetic Foot Ulcers GrafixCORE <sup>®</sup> : Open-Label Study to Evaluate the Safety and	Phase 4	Industry
Biomaterials Biomaterials	Efficacy of GrafixCORE <sup>®</sup> for Complex Diabetic Foot Wounds GrafixPRIME <sup>®</sup> for the Treatment of Chronic Diabetic Foot Ulcers Human Amniotic Membrane Grafting and Standard of Care Versus Standard of Care Alone in the Treatment of Venous Leg Ulcers	Phase 4 Not Applicable	Industry Industry

## SUPPLEMENTARY TABLE S2. (CONTINUED)

Category	Title	Phase	Sponsors/ collaborators
Cells and biomaterials	Human Amniotic Tissue-derived Allograft, NuCel, in Posterolateral Lumbar Fusions for Degenerative Disc Disease	Not Applicable	Industry, hospital
Biomaterials Biomaterials	HyaloFAST Trial for Repair of Articular Cartilage in the Knee INFUSE <sup>®</sup> Bone Graft/PEEK Interbody Spacer/Anterior Cervical Plate Pivotal Clinical Trial	Not applicable Not applicable	Industry Industry
Biomaterials Biomaterials	Investigation of A-ECM for the Correction of Soft Tissue Defects Long-Term Follow-Up to the DEVO Pivotal Trial of Dermagraft(R)	Phase 1 Phase 3	Industry Industry
Biomaterials	to Treat Venous Leg Ulcers Musculotendinous Tissue Repair Unit and Reinforcement (MTURR)	Not applicable	Academia, government
Biomaterials Biomaterials	NOVOCART <sup>®</sup> 3D for Treatment of Articular Cartilage of the Knee OsteoStrux <sup>™</sup> Collagen Ceramic scaffold in Instrumented Lumbar Spine Fusion	Phase 3 Not applicable	Industry Industry
Biomaterials	Phase IV Study to Evaluate the Efficacy of AMNIOEXCEL in Diabetic Foot Ulcers	Not applicable	Industry
Biomaterials Biomaterials Cells and	Postmarket Study to Evaluate Biovance <sup>®</sup> in Diabetic Foot Ulcers PriMatrix for the Management of Diabetic Foot Ulcers Prospective Study of Thoracolumbar Spinal Fusion Graft	Not applicable Not applicable Phase 3	Industry Industry Academia
biomaterials Cells and biomaterials	ReCell <sup>®</sup> Combined with Meshed Skin Graft in the Treatment of Acute Burn Injuries	Not applicable	Industry
Stem cells	Safety & Efficacy of Adipose-Derived Regenerative Cells in the Treatment of Chronic Myocardial Ischemia (ATHENA II)	Phase 2	Industry
Cells and biomaterials	Safety and Feasibility of CALEC for LSCD	Phase 1	Academia, hospital
Cells and biomaterials Stem cells	Safety and Feasibility Study of Autologous Engineered Urethral Constructs for the Treatment of Strictures Safety and Feasibility Trial of Adipose-Derived Regenerative Cells	Phase 1 Phase 2	Academia, government Industry
Cells and	in the Treatment of Chronic Myocardial Ischemia Safety and Preliminary Efficacy Study of NeoFuse in Subjects	Phase 2	Industry
biomaterials Cells and	Requiring Lumbar Interbody Fusion Safety and Preliminary Efficacy Study of NeoFuse in Subjects	Phase 2	Industry
biomaterials Biomaterials	Undergoing Multilevel Anterior Cervical Discectomy Safety Study of Acellular Adipose Tissue for Soft Tissue Reconstruction	Phase 1	Academia, government
Stem cells Cells and	Safety Study of GRNOPC1 in Spinal Cord Injury Study of 3 Doses of NeoFuse Combined with MasterGraft Granules	Phase 1 Phase 1 phase 2	Industry Industry
biomaterials Biomaterials	in Subjects Requiring Posterolateral Lumbar Fusion (PLF) Study of Nerve Reconstruction Using AVANCE in Subjects Who Undergo Robotic-Assisted Prostatectomy for Treatment of Prostate Cancer	Phase 4	Industry
Cells and biomaterials	Study of Subretinal Implantation of Human Embryonic Stem Cell- Derived RPE Cells in Advanced Dry AMD	Phase 1 phase 2	Industry
Stem cells	Study to Evaluate the Safety and Preliminary Efficacy of IDCT, a Treatment for Symptomatic Lumbar Intervertebral Disc Degeneration	Phase 1 phase 2	Industry
Stem cells Biomaterials	Study to Examine the Effects of MultiStem in Ischemic Stroke The Effectiveness of Ologen <sup>®</sup> Collagen Matrix in Preventing Intraocular Pressure (IOP) Spikes After Ahmed Glaucoma Valve Surgery (AGV-FP7)	Phase 2 Phase 2	Industry Hospital
Biomaterials	The INSPIRE Study: Probable Benefit of the Neuro-Spinal scaffold for Treatment of AIS a Thoracic Acute Spinal Cord Injury	Phase 3	Industry
Cells and biomaterials	Treatment of Alveolar Bone Defects Using Aastrom Biosciences Autologous Tissue Repair Cell Therapy	Phase 1 phase 2	Academia, industry
Biomaterials	Trial of Dehydrated Human Amnion/Chorion Membrane (dHACM) in the Management of Diabetic Foot Ulcers	Not applicable	Industry
Biomaterials Biomaterials	Use of a Collagen Membrane for Soft Tissue Grafting Use of dHACM in the Treatment of Venous Leg Ulcers	Phase 1 Not applicable	Hospital Industry

Tissue engineering-specific clinical trials that were either completed or ongoing between June 2011 and March 2018 were gathered by searching through the online clinical trials database (available from clinicaltrials.gov).