

TABLE E-1 Outcomes Used to Calculate Treatment Effect Magnitude*

Study†	Target disease	Type of intervention	Outcome used to calculate overall treatment effect	Continuous (C) data or dichotomous (D)	Treatment group	Control group	Outcome assessors Blinded (yes /no)
1	Osteochondral defect in knee	Surgery	Lysholm score	C	Autologous Chondrocyte Implantation	Osteochondral Cylinder Transplantation	no
2	Ankle fracture	Postoperative management	Kaikkonen ankle score	C	Ankle brace after ORIF	Cast after ORIF	yes
3	Osteoarthritis of the knee	Surgery	Number of patients with anterior knee pain	D	Resurfacing patella in TKA	Non-resurfacing patella in TKA	yes
4	Distal radial fractures	Surgery	Lidstrom score, fair and poor	D	Five pin external fixation	Four pin external fixation	no
5	Thoracolumbar burst fracture	Surgery	Oswestry Back Pain Questionnaire	C	Operative treatment	Conservative treatment	no
6	Osteoarthritis of the knee	Drug injections	Treatment failures	D	Hyaluronic acid injections	Corticosteroid injections	yes
7	Chronic heel pain	Physical therapy	Subject relevant outcome measures (overall not better than before treatment)	D	Tissue specific plantar fascia stretching exercise	Achilles tendon stretching	no
8	Neuropathic plantar ulcers	Surgery	Ulcer healing	D	Achilles tendon lengthening	Total contact cast	no
9	Osteoarthritis of the hip	Surgery	Number of patients needing revision surgery	D	Robotic assisted implantation of THA	Manual implantation of THA	no
10	Short stature	Surgery	Number of patients with pin loosening	D	Hydroxyapatite Coating of external fixation pins for lengthening	Uncoated external fixation pins	no
11	Osteoarthritis of the hip	Surgery	Harris hip score	C	Hydroxyapatite coating of porous-coated titanium femoral stems in THA	Porous coated titanium femoral stems in THA	no
12	Wound care after hip surgery	postoperative management	Number of patients with tape blisters	D	Perforated cloth tape	Nonstretchable silk tape	no
13	Femoral fracture	Surgery	Number of patients with nonunion	D	Intramedullary nailing with reaming	Intramedullary nailing without reaming	yes
14	Osteoarthritis of the knee	Drug oral	Bone mineral density	C	Alendronate 10 mg/day	No treatment	no

15	Distal radial fractures	Surgery	Number of patients with pain	D	Norian SRS cement in fixation	Conventional fixation	no
16	Osteoarthritis of the hip	Surgery	Serum cobalt levels (1/x)	C	Metal on Metal THA	Ceramic on polyethylene THA	No
17	Forearm fractures	Surgery	Number of patients with delayed union	D	Point contact fixator plate	Limited contact dynamic compression plate	No
18	Prevention of deep vein thrombosis after TKA	Drug oral	Number of patients with DVT on venogram	D	Fraxiparine	No treatment	Yes
19	Thumb carpometacarpal osteoarthritis	Surgery	Number of patients who would not undergo surgery again	D	Ligament reconstruction with tendon interposition	Ligament reconstruction without tendon interposition	Yes
20	Osteoarthritis of the knee	Surgery	Balance index	C	Cruciate retaining TKA	Posterior stabilized TKA	No
21	Full thickness cartilage defects in the knee	Surgery	Number of patients with need for reoperation	D	Autologous Chondrocyte Implantation	Microfracture	No
22	Hallux valgus	Surgery	Number of patients who would not undergo surgery again	D	Lapidus procedure	Hohmann procedure	Yes
23	Lumbar disc herniation	Surgery	Number of patients reporting success	D	Steroid injection	Discectomy	No
24	Noninsertional Achilles tendinopathy	Drug topical	Number of symptomatic patients	D	Topical glyceryl trinitrate	Placebo	Yes
25	Chronic unilateral rupture of the anterior cruciate ligament	Surgery	Number of patients with a grade B or C score on the IKDC score	D	Double-looped semitendinosus and gracilis graft	Bone-patellar tendon-bone graft	Yes
26	Chronic plantar Fasciitis	Shockwave	Number of patients with a not completely successful result	D	Electrohydraulic high-energy shock wave	Placebo shock wave	Yes
27	Osteoarthritis of the knee	Surgery	Hospital for Special Surgery Knee score	C	Anteroposterior glide knee	Rotating platform knee	Yes
28	Soft-tissue contractures in children with cerebral palsy	Drug injections	Degrees passive dorsiflexion	C	Botulinum toxin injection and serial casting	Serial casting	Yes

29	Osteoarthritis of the knee	Ultrasound	Bone mineral density	C	Low-intensity pulsed ultrasound	Placebo	no
30	Distal radial fractures	Surgery	Number of patients with a complication	D	Kirschner wire fixation with Kapandij technique	Kirschner wire with Willenegger technique	No
31	De Quervain disease	Drug injections	Success rate	D	Triamcinolone injection with Nimesulide	Triamcinolone injection without Nimesulide	Yes
32	Loosening of THA	Surgery	Harris hip score	C	Hydroxyapatite coated sleeve revision THA	Porous-coated sleeve revision THA	No

*ORIF = open reduction and internal fixation, TKA = total knee arthroplasty, THA = total hip arthroplasty, SRS = Skeletal Repair System, DVT = deep vein thrombosis, and IKDC = International Knee Documentation Committee. †See Table E-2 for a corresponding list of these studies.

TABLE E-2 References to the Included Randomized Controlled Trials

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TABLE E-3 All Identified Outcome Measures

nr	Outcome	Frequency used	1. Patient-reported outcomes	2. Outcomes that suppose a contact between patients and outcome assessors	3. Outcomes that do not suppose a contact between patients and outcome assessors	4. Clinical events and therapeutic outcomes that will be determined by the interaction between patients and care providers
1	American Knee Society score	2		x		
2	Ankle-hindfoot scale of the American Orthopaedic Foot and Ankle Society	1		x		
3	Ankle-rating scale of Kaikkonen	1		x		
4	Ashworth scale	1		x		
5	British Orthopaedic Association Knee Function Assessment Chart	1		x		
6	Buck-Gramcko/Lohman evaluation for total wrist function	1		x		
7	Foot function index	1	x			
8	Functional knee score for anterior knee pain	1	x			
9	Geen and O'Brien	1		x		
10	Harris Hip score	4		x		
11	Hospital for Special Surgery knee scale	1		x		
12	International Knee Documentation Committee knee scoring system (IKDC)	1	x			
13	Knee Injury and Osteoarthritis Outcome Score (KOOS)	1	x			
14	Lidstrom Wrist score	1		x		
15	Lysholm knee function scoring scale	2		x		
16	Mayo Clinical hip score	1		x		
17	Merle D'Aubigne -Postel hip score	1		x		
18	Meyers knee score	1		x		
19	Modification of Martini score	1		x		
20	Modified L'Insalata shoulder rating system	1	x			
21	New developed wrist daily activity questionnaire	1	x			
22	New simple clinical anterior knee pain rating	1	x			
23	Olerud Molander Ankle score (OMA)	1		x		
24	Owesity Disability Index	2	x			
25	Pain diagram spine self-assessment questionnaire	1	x			
26	Pain score, exercise	1		x		
27	Patient satisfaction score	1	x			
28	Roland-Morris Disability Questionnaire	1	x			
29	SF-36	4	x			
30	Tegner activity level rating scale	2	x			
31	The gross motor function measure	1		x		
32	UCLA activity system	1		x		
33	VAS pain	12	x			
34	Western Ontario and McMaster Universities OA index (WOMAC)	1	x			
35	Adverse events reported by the patient or observed by the investigator	1		x		
36	Arthroscopy with biopsy for histological evaluation	2		x		
37	Balance	1		x		
38	Bone mineral density	2			x	
39	Clinical examination	6		x		
40	Complications	8				x
41	Computerized gait analysis	1		x		
42	CT	1			x	
43	Edema	1		x		
44	First tarsometatarsal joint mobility test	1		x		
45	Grip strength was measured with a dynamometer	2		x		
46	Isokinetic dynamometer	1		x		
47	Jebsen performance test	1		x		
48	KT-1000 side-to-side laxity measurements	1		x		
49	Leg length	1		x		
50	Limp	1		x		
51	Malunion	1			x	
52	Monofilament sensory testing	1		x		
53	Muscle atrophy	1		x		
54	Muscle strength recovery	1		x		
55	Neurological examination	1		x		
56	Nonunion	2			x	
57	Operating time	3		x		
58	Orthopaedic Research Institute-Ankle Strength Testing System	1		x		
59	Pain medication	2				x
60	Peak plantar pressures on the forefoot	1		x		
61	Pin extraction torque	1		x		
62	Presence or absence of blisters	1		x		
63	Pressure sensor (dolorimeter)	1		x		
64	Proprioception	1		x		
65	Radiographs	20			x	
66	Recurrence of disease	1				x
67	Re-operation	2				x
68	Return to sports activities	1	x			
69	Range Of Motion (ROM)	9		x		
70	Serum cobalt concentration	1			x	
71	Serum levels of calcium, phosphate, and alkaline phosphatase and the urinary level of deoxypyridinoline	1			x	
72	Spasticity measurements	1		x		
73	Strength measurements	1		x		
74	Swelling	1		x		
75	The International Cartilage Repair Society (ICRS) form	1		x		
76	The severity of pain after the single-leg stationary ten-hop test as rated verbally by the patient on a scale of 0 to 10	1		x		
77	Ulcer-healing	1		x		
78	Ultrasound	1		x		
79	Venography	1			x	
Total		147	16	51	8	4