Study	Methods	Participants	Interventions	Outcomes	Allocation concealment
Cetti et al. ²¹	Method of randomization:	8 orthopaedic hospitals in	Open end-to-end repair plus	"Minor complications"	В
	not stated. Number lost to	Denmark. 111 patients with	equinus cast non-weight-bearing	(including superficial	
	follow-up: none.	acute Achilles tendon ruptures.	for 6 weeks (56 patients) versus	infection, hematoma,	
	Methodological quality score: 6/12. Length of	Mean age: 37/38 years (range, 21-65). Percentage male:	cast treatment only for 8 weeks (4 weeks equinus non-weight-bearing,	adhesions). "Major complications" (including	
	follow-up: 12 months.	84/82%. Time between injury	4 weeks neutral weight-bearing)	rerupture, extreme tendon	
	•	and treatment: 0.7/0.6 days	(55 patients); all patients given heel	lengthening, deep infection).	
		(mean).	raise for 2 weeks and identical	In-patient stay. Time off	
			rehabilitation protocols.	work. Time off sports. Level of sports post-rupture. Pain,	
				or problems with walking or	
				wearing shoes at 12 months.	
				Ankle movements. Calf atrophy.	
Cetti et al.25	Method of randomization:	Orthopaedic hospital in	Standard open repair; postoperative	Superficial infection.	В
	not described, performed	Denmark. 60 patients with acute	functional brace allowing weight-	Adhesion of scar. Disturbance	
	after skin closure. Number	Achilles tendon ruptures. Mean	bearing (dorsal splint plus stirrup in	of sensibility. Rerupture.	
	lost to follow-up: 1. Methodological quality	age: 37 years (range, 20-60). Percentage male: 83%. Time	equinus for 6 weeks, heel raise 2 weeks) (30 patients) versus cast	Keloid. Time off work. Level of sports post-rupture. Pain	
	score: 6/12. Length of	between injury and treatment: 38	immobilization (complete cast in	during immobilization.	
	follow-up: 12 months.	hours (mean).	equinus non-weight-bearing for 6	Satisfaction with treatment.	
			weeks, heel raise 2 weeks) (30	Ankle movements. Calf	
			patients).	atrophy. Strength. Tendon width. Tendon elongation.	
Kangas et al.29	Method of randomization:	Orthopaedic hospital in Oulu,	Open repair augmented with	Motor performance. Pain	A
	randomly mixed sealed	Finland. 50 patients with acute	gastrocnemius turndown;	relief. Stiffness. Calf muscle	
	envelopes. Number lost to follow-up: 1.	Achilles tendon ruptures. Age range, 21-55. Percentage male:	postoperative functional brace (dorsal splint in neutral, allowing	weakness. Foot wear restrictions. Range of motion.	
	Methodological quality	94%. Time between injury and	active plantar-flexion, for 6 weeks)	Subjective result.	
	score: 9/12. Length of	treatment: <1 week.	(25 patients) versus cast	Complications.	
	follow-up: mean, 60 weeks		immobilization (complete cast in		
	(standard deviation, 6.4 weeks).		neutral for 6 weeks) (25 patients). Weight-bearing at 3 weeks.		
	weeks).		Weight bearing at 5 weeks.		
Kerkhoffs et	Method of randomization:	Orthopaedic hospital in	Three-tissue bundle open repair	Delayed wound-healing.	C
al. ²⁶	quasi-randomized, odd weeks received "wrap,"	Amsterdam, Holland. 39 patients with acute Achilles tendon	followed by cast in equinus for 1 week; semi-rigid "wrap" (for 6	Adhesion of scar. Disturbance of sensibility. Rerupture. In-	
	even received cast.	ruptures. Mean age: 37/36 years	weeks; partial weight-bearing for	patient stay. Time off sports.	
	Number lost to follow-up:	(range, 22-52 years). Percentage	first 4 weeks; full thereafter) (16	Patient-centered assessment	
	none. Methodological quality score: 6/12. Length	male: 82%. Time between injury	patients) versus cast	(modified Rupp score). Calf	
	of follow-up: 6.7 years	and treatment: 0.4/0.3 days (mean).	immobilization (complete cast in neutral for 6-8 weeks; weight-	atrophy.	
	(range, 5-8 years).	(incui).	bearing allowed when cast		
- 30			removed) (23 patients).		a
Lim et al.30	Method of randomization: quasi-randomized	7 orthopedic hospitals in the NE Thames and Oxford regions,	Open repair (modified Kessler core suture plus interrupted sutures) (33	Superficial infection. Adhesion of scar. Disturbance	С
	according to whether last	UK. 66 patients with acute	patients) versus percutaneous repair	of sensibility. Rerupture.	
	digit of hospital number	Achilles tendon ruptures. Mean	(modified Ma and Griffith	Deep infection/necrosis.	
	even or odd. Number lost	age: 38.5 years (range, 26-53	technique involving 6 or 8 stab	Keloid. Skin puckering. Time	
	to follow-up: none. Methodological quality	years). Percentage male: 61%. Time between injury and	incisions) (33 patients); postoperative immobilization in an	to perform normal activities of daily living. Level of	
	score: 4/12. Length of	treatment: not stated.	above or below-the-knee cast for	sports post-rupture. Patient	
	follow-up: 6 months.		10-14 weeks.	satisfaction.	_
Maffulli et al. ²⁸	Method of randomization:	Department of Trauma and	Open repair (single modified	Anthropometric measures.	С
aı.	quasi-randomized, alternation depending on	Orthopedic Surgery, Keele University School of Medicine.	Kessler suture) with either no. 1 Vicryl or polydioxanone;	Isometric gastrocsoleus muscle strength. Ultrasound.	
	day of week. Number lost	53 patients with acute Achilles	postoperative cast in equinus (for 2	Patient satisfaction. Activity	
	to follow-up: 4 from each	tendon ruptures. Mean age: 44.7	weeks) followed by functional	and pain. Complications.	
	group. Methodological	years (range, 31-69) in group 1	brace (dorsal splint in neutral,		
	quality score: 6/12. Length of follow-up: mean, 21	and 43.8 years (range, 30-67) in group 2. Percentage male: 85%.	allowing active plantar flexion, for 4 weeks) (26 patients) versus cast		
	months (range, 16-26	Time between injury and	immobilization (complete cast in		
	months; standard	treatment: within 1 week.	equinus for 2 weeks, mid-equinus		
	deviation, 4.6 months).		for 2 weeks and neutral for 2 weeks) (27 patients). Weight-		
			bearing was as soon as possible in		
			Group 1 and at 4 weeks in Group 2.		

Moller et al. ²²	Method of randomization: blinded with identical envelopes. Number lost to follow-up: 1. Methodological quality score: 10/12. Length of follow-up: 24 months.	Orthopaedic hospitals in Sweden. 112 patients with acute Achilles tendon ruptures. Mean age: 39.1 years (standard deviation, 8.2 years). Percentage male: 86/91%. Time between injury and treatment: 0.5-3 days.	Open end-to-end repair plus functional brace for 8 weeks (59 patients) versus cast treatment only for 8 weeks (4 weeks equinus, 4 weeks neutral) (53 patients). All patients given heel raise for 4-8 weeks and identical rehabilitation protocols; full weight-bearing allowed at 8 weeks.	"Minor complications" (including superficial infection, disturbance of sensibility, adhesions). Rerupture. Extreme tendon lengthening. Deep-vein thrombosis. In-patient stay. Time off work. Level of sports post-rupture. Visual analog scores for quality of life, result of treatment. Functional scores. Strength.	A
Mortensen et al. ²⁷	Method of randomization: computer-generated random numbers. Number lost to follow-up: none. Methodological quality score: 7/12. Length of follow-up: median, 16 months.	Odense University Hospital in Denmark. 71 patients with acute Achilles tendon ruptures. Median age: 39/35 years (range, 20-73 years). Percentage male: 72%. Time between injury and treatment: <35 hours.	Standard open repair; postoperative functional brace (dorsal splint in equinus for 2 weeks, Don-Joy brace in 30° flexion 2 weeks, and Don-Joy brace in neutral, full weight-bearing 2 weeks) (36 patients) versus cast immobilization (complete cast in equinus for 6 weeks, neutral cast full weight-bearing at 2 weeks) (35 patients).	Superficial infection. Adhesion of scar. Disturbance of sensibility. Rerupture. Deep infection. Deep-vein thrombosis. Time off work. Time off sports. Time to preinjury level of sports. Number who reached pre-injury level of sports. Satisfaction at final follow-up. Ankle movements. Calf atrophy. Strength. Radiographic separation of markers in tendon.	В
Nistor ²³	Method of randomization: admissions alternated between 2 hospitals; in one, treatment was operative, and, in the other, it was nonoperative. Number lost to follow-up: 5. Methodological quality score: 4/12. Length of follow-up: 1-5 years (mean, 2.5 years).	2 orthopaedic hospitals in Sweden. 105 patients with Achilles tendon ruptures; up to 3 weeks from injury. Mean age: 41 years (range, 21-77 years). Percentage male: 91%. Time between injury and treatment: all within 3 weeks.	Open end-to-end repair plus cast for 6-9 weeks (45 patients) versus cast treatment only for 8 weeks (4 weeks equinus, 4 weeks semi-equinus) and heel raise for 4 weeks (60 patients).	Adhesion of scar. Disturbance of sensibility. Rerupture. Deep infection. In-patient stay. Time off work. Level of sports post-rupture. Ankle movements/stiffness. Calf atrophy.	С
Petersen et al. ³²	Method of randomization: sealed envelopes. Number lost to follow-up: 8. Methodological quality score: 7/12. Length of follow-up: 12 months.	An orthopaedic hospital in Denmark. 50 patients with acute Achilles tendon ruptures. Mean age: 42 years. Percentage male: 70%. Time between injury and treatment: not stated (although late diagnosed ruptures were excluded).	Traditional cast (29 patients) versus Cam-walker (21 patients).	Patient satisfaction. Re- rupture rate. Subjective functional assessment. Atrophy. Range of motion. Power.	A
Saleh et al. ³¹	Method of randomization: not stated. Number lost to follow-up: none. Methodological quality score: 6/12. Length of follow-up: 12 months.	Orthopaedic hospitals in Sheffield, UK. 40 patients with acute Achilles tendon ruptures (presenting within 48 hours after injury). Mean age: 39/41 years (range, 19-71 years). Percentage male: 78%. Time between injury and treatment: <48 hours.	Nonoperative treatment: cast immobilization alone (above-the-knee cast in equinus 4 weeks, below-the-knee cast in semi-equinus 4 weeks, below-the-knee cast in neutral 2 weeks; weight-bearing allowed after 8 weeks) (20 patients) versus cast and functional brace (below-the-knee cast in equinus 2 weeks, below-the-knee cast in semi-equinus 1 week, "Sheffield splint" (ankle-foot orthosis) in 15° plantar flexion for 6-8 weeks; weight-bearing allowed	Rerupture. Time before walking comfortably. Ankle movements. Power of plantar flexion at follow-up.	С
Schroeder et al. ²⁴	Method of randomization: not stated. Number lost to follow-up: not stated. Methodological quality score: 3/12. Length of follow-up: 8 months (range, 6-12 months).	Orthopaedic hospitals in Germany. 43 patients with acute Achilles tendon ruptures. Mean age: 44/38/38 years. Percentage male: not stated. Time between injury and treatment: not stated.	after 3 weeks) (20 patients). Open repair (single or double Kessler suture) (13 patients) versus percutaneous repair (modified Ma and Griffith) (15 patients) versus nonoperative treatment (15 patients); postoperatively, all patients were immobilized in a special boot with a 3-cm heel raise for 4 weeks followed by gradual reduction in heel size over the following 4 weeks.	Infection. Rerupture. Deepvein thrombosis. Clinical rating according to activity level (not validated). Ultrasound.	C