## S1 Table Characteristics of included studies

Groups (n = number of patients)	Weight- bearing	Mobili- zation	Cast	Protection Orthosis	Unpro- tected	_ Outcome	Results 6-12 weeks	Results ≥ 6 months	<i>P</i> value	Complications	Details bias assessment
(A) Late weight-bearing (starting from the fourth postoperative week) in a below-knee cast (n = 22) vs	•	-	+		-	Olerud Molander score	Not reported	Not reported	Not reported	Group A: 2 older patients with osteoporosis revealed a redislocation of the lateral malleolus on radiograms	The Olerud Molander score is mentioned in the methods but the results are not reported (high
(B) Early weight-bearing (starting from the first post- operative day) in a below-knee cast (n = 24)	+	-	+	-	-					-	risk on selective reporting).
(A) Late weight-bearing (starting from the fourth postoperative week) in a below-knee cast (n = 28) vs	-	-	+	-	-	Olerud Molander score	Not reported	Not reported	Not reported	Group A (2) and Group B (6) cases of superficial wound infection or skin irritation The difference between	The Olerud Molander score is mentioned in the methods but the results are not reported (high
(B) Immediate weight-bearing (starting from the first post- operative day) in a below-knee cast (n = 25)	+	-	+	-	-					the 8 cases was not significant Group B: 1 case redislocation (caused	risk on selective reporting).
(A) Ankle exercises without weight-bearing in a dorsal splint (n=25) vs	-	+	+	-	-	Olerud Molander score	Not reported	Not reported	Not reported	No complications	The Olerud Molander score is mentioned in the methods but the results are not
<ul> <li>(B) Ankle exercises with weight-bearing in an orthosis (n=26)</li> <li>Both groups were initially treated with a plaster cast without weight-bearing during the first postoperative week</li> </ul>	+	+	-	+	-						reported (high risk on selective reporting).
(A) Ankle exercises without weight-bearing in a dorsal splint (n=19)	-	+	+	-	-	Olerud Molander score	Group A = 53 Group B = 66 (at 3 months)		Not reported	Group B: 3 cases with superficial wound infection, 1 case with local wound necrosis	
vs (B) Ankle exercises with weight-bearing in an orthosis (n=21) Both groups were initially treated with a plaster cast without weight-bearing during	+	+	-	+	-			Group $A = 76$ Group $B = 82$ (at 6 months) Group $A = 86$ Group $B = 90$ (at 18 months)	Not reported Not reported	and 1 case with skin irritation, caused by the orthosis	
	<ul> <li>(n = number of patients)</li> <li>(A) Late weight-bearing (starting from the fourth postoperative week) in a below-knee cast (n = 22) vs</li> <li>(B) Early weight-bearing (starting from the first post- operative day) in a below-knee cast (n = 24)</li> <li>(A) Late weight-bearing (starting from the fourth postoperative week) in a below-knee cast (n = 28) vs</li> <li>(B) Immediate weight-bearing (starting from the first post- operative day) in a below-knee cast (n = 25)</li> <li>(A) Ankle exercises without weight-bearing in a dorsal splint (n=25) vs</li> <li>(B) Ankle exercises with weight-bearing in an orthosis (n=26) Both groups were initially treated with a plaster cast without weight-bearing during the first postoperative week</li> <li>(A) Ankle exercises without weight-bearing in a dorsal splint (n=19) vs</li> <li>(B) Ankle exercises with weight-bearing in an orthosis (n=21) Both groups were initially</li> </ul>	(n = number of patients)bearing(A) Late weight-bearing 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weight-bearing (starting from the fourth or 23)         -         +         -         Oterud Molander score         Not reported         Not reported         Not reported         Not repatients with repatients with repatients repatients with repatients with repatients with repatients with repatients with repatients with repatients with repatients repatient repatient repatients repatient repatients repatient repatients

Publication and study design	Groups (n = number of patients)	Weight- bearing	Mobili- zation	Cast	Protection Orthosis	Unpro- tected	Outcome _	Results 6-12 weeks	Results ≥ 6 months	<i>P</i> value	Complications	Details bias assessment
Cimino et al. 1991 [27] Partly prospective study (63/71), partly retrospective study (8/71)	<ul> <li>(A) Immobilization in a cast (immediate full weight- bearing) (n=19) vs</li> <li>(B) Ankle-foot orthosis (immediate full weight- bearing) with ankle exercises (n=32)</li> </ul>	+	+	+	+	- -					Group A: 2 cases with wound complication 1 case with painful bursa (reoperation) 1 case with hardware loosening (reoperation) Group B: 2 cases with wound complication 1 case with widening of the malleoli due to syndesmosis injury <i>Group B: 1 case with a</i>	Eight patients are previously reported (high risk on other bias). Weber A fractures are included (high risk on other bias). Three patients are mistakenly assigned to
Davies et al. 1991 [28] Prospective study	<ul> <li>(A) Immobilization in a below-knee plaster of Paris</li> <li>(n = 20)</li> <li>vs</li> <li>(B) Ankle exercises and continuous passive movements (after 24 hours in a below-knee plaster of Paris backslab)</li> <li>(n = 21)</li> <li>Both groups were non-weightbearing</li> </ul>	-	•	+	-	-	Return to work (in days)	Group A = 203 Group B = 133		p = 0.084	femoral-neck fracture and a pulmonary embolism Group A:3 cases with a wound infection Group B:2 cases with a wound infection Group A:2 cases with an early removal of metal 1 case with osteoporosis Group B: 6 cases with an early removal of metal 2 cases with osteoporosis 1 case with a combination of above described	group B (high risk on other bias).
DiStasio et al. 1994 [29] Randomized controlled trial	<ul> <li>(A) Immobilization in a below-knee short-leg cast</li> <li>(n = not reported) vs</li> <li>(B) Physical therapy immediately after surgery in a removable short-leg orthosis</li> <li>(n = not reported)</li> <li>Both groups were non-weightbearing for 6 weeks</li> <li>(total n = 61)</li> </ul>	-	- +	•	- +	-	Return to work (in days)	Group A = 186 Group B = 174		Reported as not significant	complications Group A:2 cases with a superficial wound infection Group B:1 case with a superficial wound infection Group unknown:5 cases with a removal of internal fixation hardware for local symptomatology	The results are reported for only 34% of the patients (high risk on other bias). The total number of patients is reported, but not how many of these patients are assigned to the different treatment groups (high risk on other bias).

Publication	Groups	Weight-	Mobili-		Protection		Outcome	Results 6-12 weeks	Results ≥ 6 months	P value	Complications	Details bias
and study design	(n = number of patients)	bearing	zation	Cast	Orthosis	Unpro- tected						assessment

Dogra et al. 1999 [30] Randomized controlled trial	<ul> <li>(A) Non-weight-bearing in a plaster cast in the first two weeks postoperatively without ankle exercises (n=26) vs</li> <li>(B) Non-weight-bearing with ankle exercises in the first two weeks postoperatively. The ankle was resting in a plaster slab at all other times. (n=26)</li> <li>In both groups a below-knee plaster cast was applied after two weeks, graduated weightbearing was instructed.</li> </ul>	-	+	+	-	-	Olerud Molander score	Group A = 43.4 (30 - 65) Group B = 46.2 (35 - 60) (at 12 weeks)	 Reported as not significant	Group unknown: 1 case of superficial wound infection	
Egol et al. 2000 [31] Randomized controlled trial	<ul> <li>(A) Non-weight-bearing fibre-glass short-leg cast without ankle exercises</li> <li>After 6 weeks patients started physiotherapy (n=28) vs</li> <li>(B) Non-weight-bearing in a removable functional brace (aircast) with active and passive exercises of the ankle and subtalar joint by a physiotherapist</li> <li>Patients continued the ankle exercises at home (n=27)</li> <li>Both groups were initially treated for the first 2 or 3 days with a plaster A-O splint</li> <li>Both groups started weight-bearing at 6 weeks</li> </ul>	-	- +	+	- +	-	Return to work (in days) (35 out of 55 patients)	Group A = 106.5 Group B = 53.8	 p = 0.007	Group A: 1 case with pulmonary embolus	
Finsen et al. 1989 [32] Randomized controlled trial	<ul> <li>(A) Non-weight-bearing in a light-weight plaster-of-Paris cast (n=19) vs</li> <li>(B) Non-weight-bearing without a plaster cast (first three days in a plaster-of-Paris splint) with ankle exercises (n=18) vs</li> <li>(C) Weight-bearing in a below-knee cast with a rubber walker (n=19)</li> </ul>	- +	-	+ - +	-	•	Return to work (in days)	Group A = 96.6 (SD = 36.4) Group B = 66.5 (SD = 28) Group C = 90.3 (SD = 42)	 reported as not significant	Group C: 1 case with readmission because of swelling, irritation of the skin and blistering Group unknown:2 cases with a superficial wound infection 1 case with a deep wound infection 3 cases with a superficial infection or a small area of necrosis of the skin after removal of the plate and screw.	The total loss to follow-up is reported, but not how the loss to follow-up is divided between the different treatment groups (high risk on other bias).

Publication	Groups	Weight-	Mobili-		Protection		Outcome	Results 6-12 weeks	Results ≥ 6 months	<i>P</i> value	Complications	Details bias
and study design	(n = number of patients)	bearing	zation	Cast	Orthosis	Unpro-						assessment
						tected						
Godsiff et al. 1993 [33] Prospective study	(A) No early ankle exercises in a non-weight-bearing cast for 6 weeks (n = 20) vs	-	-	+	-	-					Not reported	Weber A fractures are included (high risk on other bias).
	(B) Early active and passive ankle exercises in a non- weight-bearing cast for 6 weeks (n = 27)	-	+	+	-							
Gul et al. 2007 [13] Retrospectiv e study	(A) Immobilization and non- weight-bearing in a plaster cast (n=25) vs	-	-	+	-	-	Olerud Molander score		Group A = 84 Group B = 82 (at an average 37,5 months)	p = 0.858	Group A: 1 case with superficial wound infection 1 case with a pulmonary embolism	Weber A fractures are included (high risk on other bias).
	(B) Immediate functional and full weight-bearing mobilization without a plaster cast (n=25)	÷	÷	-	-	÷	Return to work (in days)	Group A = 91.3 (SD = 20.2) Group B = 54.6 (SD = 15.5)		p < 0.001	1 case with loss of internal fixation at one week which was re- operated 1 case with non-union who refused re- operation Group B: 3 cases with superficial wound infection who were put in an ankle brace to limit dorsal and plantar flexion for 1-2 weeks but were allowed to continue with full weight-bearing 1 case of posttraumatic arthritis Group B: 2 cases of syndesmotic screw breakage	
Harager et al. 2000 [34] Partly prospective and partly retrospective study	<ul> <li>(A) Non-weight-bearing for 3 weeks followed by 3 weeks of weight-bearing (n = 73) vs</li> <li>(B) Immediate full weight-bearing in a below-knee walking cast</li> </ul>	•		+	-						Group A: Not reported Group B: 5 cases with a superficial wound infection 1 case with a slightly dislocated fracture 2 cases with a deep venous thrombosis	The hospital stay is mentioned in the methods but the quantitative results are not reported (high risk on selective reporting). The
	(n = 62)											complications of group A are also not reported (high risk on selective reporting).

Publication	Groups	Weight-	Mobili-		Protection		Outcome	Results 6-12 weeks	Results ≥ 6 months	P value	Complications	Details bias
and study design	(n = number of patients)	bearing	zation	Cast	Orthosis	Unpro- tected						assessment
						lected						
Hedström et al. 1994 [35] Randomized controlled trial	<ul> <li>(A) Weight-bearing in a walking cast without ankle exercises</li> <li>(n=25) vs</li> <li>(B) Weight-bearing in an orthosis with ankle exercises</li> <li>(n=28)</li> </ul>	+	+	+ -	+	-	Olerud Molander score	Group A = 70 Group B = 80 (at 3 months)	Group $A = 85$ Group $B = 85$ (at 6 months) Group $A = 88$ Group $B = 100$ (at 18 months)	Reported as not significant Reported as not significant Reported as not significant	Group A: 1 case with superficial wound infection Group B: 2 cases with superficial wound infection <i>Group B: 4 cases with</i> <i>arthrosis</i>	
Honigmann et al. 2007 [36] Randomized controlled trial	<ul> <li>(A) Functional postoperative treatment without external stabilization (full weight- bearing after 6 weeks)</li> <li>(a plaster of Paris splint was applied for 2-4 days)</li> <li>(n=22)</li> <li>Vs</li> </ul>	-	+	-	-	+	Olerud Molander score (median)	Group $A = 42.5$ Group $B = 42$ (at 6 weeks) Group $A = 72$ Group $B = 69$ (at 10 weeks)		p = 0.46 p = 0.55	No complications	Weber A fractures are included (high risk on other bias).
	(B) Weight-bearing in a vacuum orthosis (vacoped) (full weight-bearing is allowed after 14 days) $(n=23)$ Both groups had 15kg weight-bearing starting between 2 <sup>nd</sup> and 4 <sup>th</sup> postoperative day. Both groups had free ankle movements	÷	+	-	+	-	Return to work (in days) (median)	Group A = 53 Group B = 37		p = 0.79		
Laarhoven van et al. 1996 [37] Prospective	(A) Non-weight-bearing functional unprotected mobilization and crutches (n=40)	-	+	-	-	+	Olerud Molander score (median)	Group A = 40 $Group B = 45$ $(at 10 days)$		p = 0.47	Group A: 2 cases with a superficial wound infection 1 case with osteitis	
study	vs (B) Early weight-bearing in a below-knee walking plaster (n=41)	+	-	+	-	-		Group A = 50 Group B = 65 (at 6 weeks)		p = 0.02	Group B: 4 cases with a superficial wound infection	
	Both groups were initially treated for two to five days with a plaster cast postoperatively							Group $A = 80$ Group $B = 85$ (at 3 months)		p = 0.84	Group unknown: 3 cases with secondary dislocation after operation	
									Group $A = 95$ Group $B = 95$ (at 1 year)	p = 0.90	1 case with delayed union 2 cases with Sudeck's dystrophy	
							Return to work (in days) (median)	Group A = 79 Group B = 78		p = 0.54		

Publication	Groups	Weight-	Mobili-		Protection		Outcome	Results 6-12 weeks	Results ≥ 6 months	<i>P</i> value	Complications	Details bias
and study	(n = number of patients)	bearing	zation	Cast	Orthosis	Unpro-						assessment
design						tected						
Lehtonen et al. 2003 [38] Randomized controlled trial	(A) Below-knee plaster cast; after 2 weeks partial weight- bearing in a fibreglass short leg walking cast and full weight-bearing at 4 weeks (n=50)	+	-	+	-	-	Olerud Molander score	Group A = 54 (SD = 13) Group B = 52 (SD = 14) (at 6 weeks)		Reported as not significant	Group A: 4 cases with a superficial wound infection 2 cases with a deep- vein thrombosis 1 case with chronic	Weber A fractures are included (high risk on other bias).
	vs (B) Functional Air-Stirrup ankle brace (Aircast); after 2 weeks partial weight-bearing and full weight-bearing at 4 weeks	÷	+	-	+	-		Group A = 75 (SD = 14) Group B = 75 (SD = 13) (at 12 weeks)		Reported as not significant	dysesthesia of the skin Group B: 16 cases with a superficial wound infection 4 cases with a deep wound infection	
	(n=50)								Group A = 89 (SD = 8) Group B = 88 (SD = 9) (at 52 weeks)	Reported as not significant	3 cases with dehiscence of the wound 3 cases with chronic dysesthesia 1 case with local skin	
									Group A = 87 (SD = 8) Group B = 87 (SD = 9) (at 2 years)	Reported as not significant	1 case with chronic allodynia 1 case with loss of internal fixation	
							Return to work (in days)	Group A = 63 (SD = 13) Group B = 65 (SD = 19)		Reported as not significant	1 case with refracture of the lateral malleolus Group A: 1 case with chronic skin irritation Group B: 2 cases with chronic skin irritation 1 case with postspinal headache	
Lund- Kristensen et al. 1981 [39] Prospective study	(A) Dorsal plaster-of-Paris splint for 2 to 10 days (average 3 days) with ankle exercises after removal of the dorsal splint (n=10) vs	-	-	+	-	-					Group unknown: 1 case with a small abscess over a loose screw 1 case with pes equines	Weber A fractures are included (high risk on other bias). Very low number of patients (n=28)
	(B) Plaster-of-Paris cast (for 4 to 6 weeks postoperative); as soon as possible the patients were mobilized using crutches (n=3) vs	-	+	+	-	-						are included (high risk on other bias).
	<ul> <li>(C) Without any external fixation with ankle exercises (n=15)</li> <li>All groups became weightbearing on average at 9 weeks.</li> </ul>	-	+	-	-	+						
Richter et al. 1996 [40] Prospective study	(A) Plaster immobilization (non-weight-bearing) (n=19) vs	-	-	+	-	-	Olerud Molander score		Group A = 85.0 Group B = 92.4 (on average at 17,3 months)	Not reported	No complications	Children are included (high risk on other bias).
	(B) Early mobilization (n=42)	-	+	-	-	-						

Publication	Groups	Weight-	Mobili-		Protection		Outcome	Results 6-12 weeks	Results ≥ 6 months	P value	Complications	Details bias
and study design	(n = number of patients)	bearing	zation	Cast	Orthosis	Unpro- tected						assessment

Siddique et al. 2005 [41] Prospective study	<ul> <li>(A) Immobilization in a below-knee plaster cast</li> <li>(n=22)</li> <li>Vs</li> <li>(B) Mobilization without a cast</li> <li>(n=22)</li> </ul>	-	- +	+	-	-	Olerud Molander score	Group A = 33.0 (SD = 19.0) Group B = 39.2 (SD = 19.5) (at 6 weeks)		p = 0.29	Not reported	
	Both groups were treated with partial weight-bearing at 4 weeks and gradually progressed to full weight- bearing							Group A = 67.5 (SD = 21.9) Group B = 69.5 (SD = 22.5) (at 12 weeks)		p = 0.76		
Simanski et al. 2006 [42] Partly prospective and partly retrospective study	(A) Immobilization (no functional treatment) in a below-knee plaster cast without weight-bearing (starting in a below-knee splint until ankle swelling was reduced)	-	-	÷	-	-	Olerud Molander score		Group A = 79 (SD = 19) Group B = 87 (SD = 14) (at least at 12 months)	p = 0.25	Group A: 1 case with pseudarthrosis of the fibula 2 cases with superficial wound infection 1 case with reflex sympathetic dystrophy	
	(n=23) vs (B) Early functional (active and passive ankle exercises) treatment in a brace (aircast) with immediate partial weight- bearing; full weight-bearing after 3 weeks (n=23)	+	+	-	÷		Return to work (in days)	Group A = 75.6 (SD = 49.0) Group B = 64.4 (SD = 38.5)		p = 0.63	(p = 0.66) Group B: 1 case with reflex sympathetic dystrophy 1 case with an allergic reaction to the chrome- nickel plate	
Søndenaa et al. 1986 [43] Randomized controlled	(A) Non-weight-bearing immobilization in a plaster cast (n=23) vs	-	-	+	-	-					Group B: 1 case with a superficial wound infection	Weber A fractures are included (high risk on other
trial	<ul> <li>(B) Unprotected non-weightbearing with active ankle</li> <li>exercises (after 3 days of pain immobilization in a plaster slab)</li> <li>(n=20)</li> <li>Both groups were allowed full weightbearing after 6 weeks</li> </ul>		÷		-	+						bias).
Tropp et al. 1995 [44] Randomized controlled trial	<ul> <li>(A) Immobilization in a plaster cast</li> <li>(n = 15)</li> <li>vs</li> <li>(B) Early mobilization in an</li> </ul>	+	-+	+	-+	-	Modified Olerud Molander score	Group A = 70 (SD = 21) Group B = 77 (SD = 19) (at 10 weeks)		Reported as not significant	Group A: no complications Group B: 1 case with a wound with slight secretion	Very low number of patients (n=30) are included (high risk on other bias).
	ankle brace (n = 15) In both groups weight-bearing was allowed								Group A = 88 (SD = 22) Group B = 92 (SD = 10) (at 12 months)	Reported as not significant		The total number of patients is reported, but not how many of these patients are assigned to the different treatment groups (high risk on other bias).

Publication	Groups	Weight-	Mobili-		Protection		Outcome	Results 6-12 weeks	Results ≥ 6 months	P value	Complications	Details bias
and study design	(n = number of patients)	bearing	zation	Cast	Orthosis	Unpro- tected						assessme
ioreanu et . 2007 [45] rospective udy	<ul> <li>(A) Immobilization in a below- knee nonremovable fibreglass cast (non-weight-bearing) (n=29)</li> <li>Vs</li> <li>(B) Early mobilization in a</li> </ul>		-	+	•	-	Olerud Molander score	Group A = 63.75 (SD = 9.19) Group B = 79.92 (SD = 11.32) (at 9 weeks)		p < 0.05	Group A: 2 cases with deep vein thrombosis of popliteal vein Group B: 1 case with a superficial wound infection	
	removable fibreglass cast with active and passive ankle exercises (non-weight-bearing) (n=33) Both groups were initially							Group A = 81.07 (SD = 9.56) Group B = 93.17 (SD = 8.76) (at 12 weeks)		Reported as not significant	1 case with break down and subsequent infection of the wound which needed removal of hardware 1 case with a deep	
	treated for 10 to 14 days in a dorsal plaster of Paris splint						Return to work (in days)	Group A = 94.9 (SD = 24.4) Group B = 67 (SD = 18.7)		p < 0.05	wound infection which needed removal of hardware	
Vetzler et al. 991 [46] abstract	(A) Short leg cast for 6 weeks (n = 25) vs	-	-	+	-	-	Return to work (in days)	No difference between both groups		Reported as not significant	Number of complications in both groups are not	
only) Randomized controlled rial	(B) Pneumatic walker for 1 to 2 weeks and then a pneumatic ankle brace (n = 20)	+	+	-	+	-				goan	significantly different	

+ = yes / present - = no / not present