

TABLE E-1 Data on the Patients in the Rerupture Group

Case	Primary Treatment	Rerupture treatment	Age (year)	Interval between the first treatment and rerupture (day)	Corticosteroid medications	Diabetes	Smoking	Delay before primary operation (day)	Preoperative tendon symptoms	Infection after reoperation	Total number of risk factors
1	1 GFA	2 GFA+Lynn	39	43	-	-	-	1	-	-	0
2	End-end	1 GFA	28	35	-	-	-	1	-	-	0
3	1 GFA	1 GFA	64	137	Yes	-	-	23	Yes	Yes	4
4	Lynn	1) Lynn 2) 2 GFA	42	112	-	-	-	1	-	-	0
5	1 GFA	Coretex	7	Unknown	Yes	-	-	188	-	Yes	3
6	1 GFA	1 GFA	35	100	-	-	Yes	1	-	Yes	1
7	2 GFA	End-end	32	63	-	-	Yes	2	-	-	1
8	1 GFA	1 GFA	41	2	-	-	Yes	1	-	-	1
9	1 GFA	Cast	35	31	-	-	-	2	-	-	0
10	2 GFA	1 GFA	39	48	-	-	-	1	-	-	0
11	1 GFA	Unknown	26	99	Yes	-	-	1	Yes	-	2
12	2 GFA	Cast	29	43	-	-	Yes	2	-	-	1
13	1 GFA	2 GFA	36	55	-	-	-	1	-	-	0
14	1 GFA	Lynn	34	151	-	-	-	1	-	-	0
15	End-end	Lynn	41	61	-	-	Yes	1	-	-	1
16	1 GFA	1 GFA	35	209	-	-	-	1	-	-	0
17	1 GFA	Cast	40	69	-	-	-	51	-	-	1
18	End-end	1 GFA	46	64	-	-	Yes	1	-	-	1
19	1 GFA	Unknown	32	118	Yes	-	Yes	2	Yes	-	3
20	End-end	1) End-end 2) 1 GFA	23	112	-	-	Yes	2	-	-	1
21	End-end	1 GFA	44	36	-	-	-	1	-	-	0
22	End-end	1 GFA	36	66	-	-	Yes	2	-	-	1
23	Cast	Cast	71	Unknown	Yes	-	-	-	Yes	-	3

1 GFA = gastrocnemius fascia augmentation with one turn down flap (Silfverskiöld).

2 GFA = gastrocnemius fascia augmentation with two turn down flaps (Lindholm).

Lynn = plantaris longus tendon augmentation.

End-end = end to end suture.

TABLE E-2 Data on the Patients in the Deep Infection Group

Case	Primary Treatment	Rerupture treatment	Age (year)	Corticosteroid medication	Diabetes	Smoking	Delay before primary operation (day)	Preoperative tendon symptoms	Infection after primary operation	Infection after reoperation	Total number of risk factors
24	1 GFA	-	61	Yes	-	-	7	Yes	Yes	-	4
3*	1 GFA	1 GFA	64	Yes	-	-	23	Yes	-	Yes	4
5*	1 GFA	Coretex	70	Yes	-	-	188	-	-	Yes	3
6*	1 GFA	1 GFA	35	-	-	Yes	1	-	-	Yes	1
25	End-end	-	79	Yes	-	-	9	Yes	Yes	-	4
26	End-end	-	56	Yes	Yes	Yes	4	Yes	Yes	-	4
27	1 GFA	-	36	-	-	-	2	-	Yes	-	0
28	2 GFA	-	32	-	-	-	2	-	Yes	-	0
29	2 GFA	-	45	-	-	Yes	6	-	Yes	-	1

1 GFA = gastrocnemius fascia augmentation with one turn down flap (Silfverskiöld).

2 GFA = gastrocnemius fascia augmentation with two turn down flaps (Lindholm).

Lynn = plantaris longus tendon augmentation.

End-end = end to end suture.

*Cases 3, 5, and 6 are included in both the rerupture group (Table E-1) and the deep infection group (Table E-2).

TABLE E-3 Clinical Outcome Scoring According to Leppilahti et al.¹⁶

<i>CLINICAL FACTOR</i>		<i>RERUPTURE</i> <i>N=12</i>		<i>INFECTION</i> <i>N=7</i>		<i>Statistical significance</i>
PAIN						p=0.3
	None	6	50%	1	14%	
	Mild, no limitations on recreational activities	5	42%	4	57%	
	Moderate, limitations on recreational, not in ADL	1	8%	2	29%	
	Severe limitations in ADL	--		--		
STIFFNESS						p=0.17
	None	8	67%	2	29%	
	Mild, no limitations on recreational activities	4	33%	5	71%	
	Moderate, limitations on recreational, not in ADL	--		--		
	Severe limitations in ADL	--		--		
CALF MUSCLE WEAKNESS						p<0.001
	None	6	50.0%	--		
	Mild, no limitations on recreational activities	6	50.0%	1	14%	
	Moderate, limitations on recreational, not in ADL	--		5	71%	
	Severe limitations in ADL	--		1	14%	
FOOTWEAR RESTRICTIONS						p=0.009
	None	12	100%	3	43%	
	Mild, most shoes tolerated	--		4	57%	
	Moderate, modified shoes suitable	--		--		
ACTIVE ANKLE-ROM DIFFERENCE						p=0.01
	Normal (<6°)	11	92%	2	29%	
	Mild (6°-10°)	1	8%	4	57%	
	Moderate (11°-15°)	--		1	14%	
	Severe (>15°)	--		--		
SUBJECTIVE RESULT						p=0.004
	Very satisfied	3	25%	--		
	Satisfied with minor problems	8	67%	1	14%	
	Satisfied with major problems	1	8%	6	86%	
	Dissatisfied	--		--		
ISOKINETIC MUSCLE STRENGTH						p=0.04
	Excellent	--		--		
	Good	2	17%	--		
	Fair	7	58%	1	14%	
	Poor	3	25%	6	86%	
ANKLE PERFORMANCE SCORE						p=0.004
	Excellent	1	8%	--		
	Good	7	58%	--		
	Fair	4	33%	2	14%	
	Poor	--		5	86%	

ADL = activities of daily living.

TABLE E4: Mean Peak Torques (N-m) During Plantar Flexion and Dorsiflexion of the Ankle at Velocities 60°/sec, 120°/sec, and 180°/sec and Mean Isometric Strength of Plantar Flexion in Rerupture Group and Infection Group.

Rerupture group (N = 12)						Infection group (N = 7)				
Test Speed	Injured Mean (SD)	Uninjured Mean (SD)	Pairwise % difference Mean (SD)	95% CI	P value	Injured Mean (SD)	Uninjured Mean (SD)	Pairwise % difference Mean (SD)	95% CI	P value
Peak torque										
Plantar flexion										
60°/sec	113.3 (21.7)	128.3 (17.9)	11.6 (12.1)	3.9, 19.3	0.007	47.2 (29.3)	78.2 (42.4)	39.5 (11.3)	27.7, 51.4	0.006
120°/sec	89.3 (16.6)	102.3 (18.9)	12.2 (10.9)	5.3, 19.1	0.003	40.4 (19.9)	68.4 (36.5)	39.5 (8.7)	28.6, 50.3	0.022
180°/sec	69.1 (12.2)	75.2 (14.3)	7.1 (12.5)	-0.8, 15.0	0.039	40.0 (19.0)	54.8 (26.8)	25.9 (10.7)	12.6, 39.2	0.022
Dorsiflexion										
60°/sec	30.3 (6.5)	30.8 (8.8)	-3.2 (18.7)	-15.1, 8.7	0.95	26.3 (12.2)	21.3 (8.9)	-24.3 (17.1)	-24.3, -6.4	0.034
120°/sec	25.8 (5.5)	25.3 (4.0)	-2.4 (18.1)	-13.9, 9.2	0.77	21.8 (10.5)	17.6 (6.7)	-22.1 (20.2)	-47.1, 3.0	0.14
180°/sec	24.8 (5.8)	24.2 (4.3)	-4.2 (23.7)	-19.3, 10.8	0.74	21.4 (8.6)	19.2 (7.4)	-13.7 (17.4)	-35.3, 8.0	0.17
Isometric strength (N)										
Plantar flexion	130.3 (33.8)	154.6 (33.9)	14.4 (18.8)	2.5, 26.4	0.012	58.8 (40.7)	109.2 (55.9)	42.1 (24.8)	11.4, 72.9	0.07