

Table E1 Summary of Cases

Case No.	Sex/Age (yr)	Primary Fusion	Indication for Revision	Duration Between Primary Fusion and Revision (mo)	Osteotomy Site	Correction
1	M/50	Tibiotalar Subtalar	Infected nonunion	260	Nonunion resection Proximal osteotomy	Acute
2	F/24	Tibiotalar Subtalar	Malunion	45	Supramalleolar osteotomy	Gradual
3	M/12	Tibiotalar Subtalar	Malunion	17	Supramalleolar osteotomy	Gradual
4	F/48	Tibiotalar Subtalar	Infected nonunion	10	Nonunion resection Proximal osteotomy	Acute
5	F/51	Tibiotalar Subtalar	Nonunion	312	Nonunion resection Proximal osteotomy	Acute
6	F/19	Tibiotalar Subtalar	Nonunion	52	Nonunion resection Proximal osteotomy	Acute
7	M/54	Tibiotalar Subtalar	Malunion	39	Supramalleolar osteotomy	Acute
8	M/63	Tibiotalar Subtalar	Nonunion	29	Nonunion resection Proximal osteotomy	Acute
9	M/31	Tibiotalar Subtalar	Malunion	227	Supramalleolar osteotomy	Gradual
10	M/36	Tibiotalar	Malunion	71	Supramalleolar osteotomy	Gradual
11	M/25	Tibiotalar Subtalar	Malunion	24	Supramalleolar osteotomy Proximal osteotomy	Gradual
12	F/41	Tibiotalar	Nonunion	67	Distraction	Gradual
13	M/34	Tibiotalar	Nonunion	18	Nonunion resection Proximal osteotomy	Acute
14	M/56	Tibiotalar	Nonunion	51	Distraction	Gradual
15	F/42	Tibiotalar	Nonunion	162	Nonunion resection	Acute
16	M/48	Tibiotalar	Malunion	27	Supramalleolar osteotomy Proximal osteotomy	Acute
17	F/34	Tibiotalar	Malunion	36	Supramalleolar osteotomy	Gradual
18	M/42	Pantalar	Malunion	82	Supramalleolar osteotomy Proximal osteotomy	Acute
19	F/19	Tibiotalar Subtalar	Malunion	145	Supramalleolar osteotomy	Gradual
20	M/54	Tibiotalar	Nonunion	35	Nonunion resection Proximal osteotomy	Acute
21	F/53	Pantalar	Malunion	480	Supramalleolar osteotomy	Gradual

Table E2 Results

Case No.	Coexisting Pathologic Condition	Limb-Length Discrepancy (cm)	Additional Procedures	External Fixation Time (mo)	Follow-up (yr)	Bone Result/ Functional Result
1	Infection Forefoot supination	5	Resection of necrotic bone Acute shortening Lengthening Forefoot correction	8.5	8	Excellent/Excellent
2	Chronic osteomyelitis Cavus hindfoot Forefoot pronation	3.5	Lengthening Calcaneal osteotomy Forefoot correction	5	6	Good/Excellent
3	Forefoot supination		Forefoot correction	4.5	10	Fair/Excellent
4	Infection Forefoot supination		Resection of necrotic bone Acute shortening Lengthening Forefoot correction	18	10	Good/Good
5	Congenital short tibia and foot Thin calf	5	Lengthening Tibial widening Calcaneal osteotomy Metatarsal lengthening	6.5	10	Excellent/Excellent
6	Deep peroneal nerve deficit Thin calf	2.5	Lengthening Tibial widening Neuroma excision	7	12	Excellent/Fair
7	Infected nonunion of distal part of tibia	6	Resection of necrotic bone Acute shortening Lengthening	7.5	3	Good/Good
8	Sural nerve deficit Forefoot supination	2	Lengthening Tarsal tunnel release Forefoot correction	6.5	3	Good/Good
9	Midfoot adduction Navicular-cuboid coalition	2.8	Lengthening Midfoot osteotomy Achilles tendon lengthening	9.5	8	Excellent/Excellent
10	Chronic osteomyelitis Tibial malalignment	2.7	Resection of necrotic bone Acute shortening Lengthening Distal tibial realignment	13	7	Good/Excellent
11	Chronic osteomyelitis Tibial malalignment Forefoot supination	6.5	Lengthening Forefoot correction Distal tibial realignment Achilles tendon lengthening	7.5	7	Poor/Poor
12		3	Lengthening	8	10	Good/Excellent
13		5	Lengthening	10	9	Good/Excellent
14		5.8	Lengthening	6.5	5	Excellent/Fair
15	Distal femoral varus malalignment	1	Lengthening Fibular transport	6	6	Excellent/Excellent
16	Nonunion of distal part of tibia Forefoot supination	3.6	Lengthening Nail insertion Tarsal tunnel release	2.5	3	Excellent/Excellent
17	Chronic osteomyelitis Forefoot supination	2.5	Lengthening Forefoot correction	4.5	10	Excellent/Excellent
18	Tibial malalignment No functional extensor hallucis longus	4.1	Lengthening Tarsal tunnel release Distal tibial realignment	9.5	3	Good/Excellent
19	Thin calf Forefoot supination	5	Lengthening Tibial widening Plantar fasciotomy Soft-tissue release	9.5	10	Good/Excellent
20	Subtalar arthritis Sural-peroneal nerve deficit	3.9	Lengthening Subtalar joint distraction	8.5	4	Excellent/Excellent
21	Thin calf	4.7	Lengthening Tibial widening	5	2	Excellent/Excellent