

Table, Supplemental Digital Content 1. Details of all patients

Age	Sex	Fracture	Mechanism	Size of defect	Site of defect	OP minutes*	Flap complications	Donor site complications	Co-existing medical conditions
66	F	Fracture	Exposed bone	6 X 1.5	Distal tibia	90	None	None	
58	F	Fracture	Osteomyelitis	1 X 1	Lateral malleolus	45	Necrosis total	None	Rheumatoid arthritis immunosuppression
22	M	None	Skin defect		Dorsal foot		None	None	
71	F	Fracture	Exposed bone		Distal tibia		None	None	
81	M	None	Skin defect	5 X 7	Lateral malleolus	87	None	Fistula	Diabetes mellitus
75	M	None	Exposed tendon Achilles	1 X 1.5	Tendon Achilles	100	None	None	Diabetes mellitus, cardiovascular condition
74	F	None	Skin defect	4 X 5	Medial malleolus	165	None	None	
76	M	Fracture	Osteomyelitis	1 X 2	Distal tibia	150	None	None	
68	M	None	Skin defect	3 X 7	Distal tibia	75	Necrosis total	None	Immunosuppression
67	F	Fracture	Exposed bone	4 X 12	Distal tibia	255	None	None	
65	F	None	Skin defect	4 X 5	Medial malleolus	170	None	None	
61	F	Fracture	Osteomyelitis	1.5 X 4	Lateral malleolus	82	Dehiscence	None	
64	M	Fracture	Osteomyelitis	0.2 X 0.2	Medial malleolus	74	Fistula	Delayed healing	Cardiovascular condition
54	M	None	Exposed tendon Achilles	3 X 8	Tendon Achilles	145	None	None	
54	M	None	Exposed tendon Achilles		Tendon Achilles	140	None	None	
61	M	None	Exposed tendon Achilles	4 X 5	Tendon Achilles	61	Necrosis partial	Delayed healing	Diabetes mellitus, cardiovascular condition
52	F	Fracture	Osteomyelitis		Distal tibia	185	None	None	
52	M	Fracture	Osteomyelitis	4 X 5	Distal tibia	75	None	None	
44	M	Fracture	Exposed bone	3 X 6	Proximal tibia	65	None	None	
53	F	None	Skin defect	1 X 1	Dorsal foot	73	None	Delayed healing	
46	F	None	Skin defect	0.5 X 1	Medial malleolus	75	None	None	
48	M	Fracture	Osteomyelitis	0.5 X 2	Heel	110	None	None	
40	F	None	Skin defect	5 X 5	Proximal tibia	160	None	Delayed healing	
39	F	None	Osteomyelitis	1.5 X 1.5	Lateral malleolus		None	Fistula	Rheumatoid arthritis immunosuppression
29	M	Fracture	Exposed bone	3 X 7	Heel	60	Dehiscence	None	
23	M	Fracture	Exposed bone	3 X 4	Distal tibia	75	None	None	
18	M	Fracture	Exposed bone	5 X 6	Tendon Achilles	78	None	None	
73	M	Fracture	Osteomyelitis	5 X 4	Distal tibia	87	Necrosis partial	Delayed healing	Cardiovascular condition
61	F	Fracture	Skin defect	4 X 4	Lateral malleolus	80	Dehiscence	None	Cardiovascular condition, asthma
75	M	Fracture	Osteomyelitis	1 X 1	Distal tibia	105	None	None	Lung cancer, heart arrhythmia
68	M	Fracture	Osteomyelitis	1 X 1	Proximal tibia	100	None	Dehiscence	Cardiovascular condition, hepatitis C
67	M	Fracture	Skin defect	5 X 5	Distal tibia	110	None	None	Cardiovascular condition, diabetes mellitus, asthma
78	F	Fracture	Skin defect	3 X 5	Distal tibia	130	None	None	
82	F	Fracture	Skin defect	3 X 3	Medial malleolus	145	Necrosis partial	None	
72	M	None	Osteomyelitis	8 X 8	Distal tibia	95	None	None	Epilepsy
56	M	Fracture	Skin defect	12 X 4	Distal tibia	60	Graft failure	None	
57	M	Fracture	Skin defect		Distal tibia	155	None	None	
63	F	None	Sarcoma	10 X 8	Distal tibia	72	None	None	Cardiovascular condition
50	M	Fracture	Skin defect	5 X 1	Distal tibia	215	None	None	
70	F	Fracture	Skin defect		Medial malleolus	105	Necrosis total	None	Cardiovascular condition

77	F	Fracture	Skin defect	5 X 5	Medial malleolus	65	None	None	Chronic obstructive pulmonary disease
18	F	None	Skin defect	5.5 X 6	Proximal tibia	235	None	None	
46	M	None	Exposed tendon Achilles	3 X 4	Tendon Achilles	102	None	None	
39	F	None	Skin defect	4 X 3	Dorsal foot	80	None	None	Paraparesis
69	M	Fracture	Skin defect	3 X 4	Medial malleolus	80	Necrosis total	Dehiscence	Cardiovascular condition, diabetes mellitus
26	F	Fracture	Exposed bone	2 X 4	Distal tibia	66	None	None	
57	M	Fracture	Exposed bone	2 X 3	Distal tibia	135	Necrosis total	None	
78	M	Fracture	Osteomyelitis	1 X 2	Medial malleolus	190	Necrosis total	None	Cardiovascular condition
48	M	None	Exposed tendon Achilles	3 X 3	Tendon Achilles	210	None	None	
50	M	Fracture	Exposed bone	5 X 4	Heel	110	None	Delayed healing	Hepatitis C
60	M	None	Skin defect	2 X 2	Lateral malleolus	155	None	None	
54	M	Fracture	Osteomyelitis	3.5 X 1.5	Lateral malleolus	95	Necrosis total	None	
70	M	Fracture	Skin defect	6 X 3	Dorsal foot	85	None	None	Chronic obstructive pulmonary disease, stroke, hepatitis C
60	M	None	Skin defect	2 X 3	Heel	97	Graft failure	None	
72	M	Fracture	Exposed tendon Achilles	2 X 3	Tendon Achilles	62	None	None	Cardiovascular condition
72	M	None	Exposed tendon Achilles	5 X 5	Tendon Achilles	74	Necrosis partial	Delayed healing	Cardiovascular condition
60	F	None	Exposed tendon Achilles	3 X 1.5	Tendon Achilles	190	Dehiscence	None	Cardiovascular condition, asthma
62	M	Fracture	Exposed bone	4 X 4	Medial malleolus	140	Graft failure	None	
67	M	Fracture	Skin defect	3 X 5	Distal tibia	261	None	None	
57	M	Fracture	Osteomyelitis	2 X 3	Distal tibia	130	None	None	Cardiovascular condition
55	M	None	Skin defect	7 X 4	Distal tibia	140	None	None	Epilepsy
62	M	Fracture	Skin defect	2 X 4	Distal tibia	145	Necrosis partial	Delayed healing	
42	M	Fracture	Osteomyelitis		Heel	105	None	Delayed healing	Diabetes mellitus
35	M	Fracture	Osteomyelitis	3.5 X 4.5	Heel	90	None	None	

*Skin to skin