

TABLE E-1 Patient Demographics, Information on the Wounds, and Radiographic Grades of HO\*

Group†	Age (yr)/Sex	Mechanism of Injury‡	Type of Injury	Days from Injury Until Initial Debridement in U.S.	Days Until Radiographic Evidence of HO	Radiographic Grade of HO§	Traumatic Brain Injury Grade§
Control							
1	40/M	Sports	ACL rupture	—	—	Absent	—
2	35/M	Sports	ACL rupture	—	—	Absent	—
3	26/M	Sports	ACL rupture	—	—	Absent	—
4	26/M	Sports	ACL rupture	—	—	Absent	—
5	23/M	Sports	ACL rupture	—	—	Absent	—
6	25/M	Sports	ACL rupture	—	—	Absent	—
Injury/no HO							
1	28/M	IED	Transtibial amputation	6	—	Absent	None
2	23/M	IED	Open tibial/fibular fracture	8	—	Absent	None
3	24/M	IED	Open tibial/fibular fracture	7	—	Absent	Mild
4	22/M	IED	Open fibular fracture	6	—	Absent	Mild
5	24/M	IED	Open proximal radial fracture	6	—	Absent	Mild
6	24/F	IED	Transfemoral amputation	6	—	Absent	Mild
7	22/M	GSW	Soft-tissue injury: shoulder	4	—	Absent	None
8	28/M	IED	Open tibial/fibular fracture	5	—	Absent	None
9	21/M	IED	Open tibial/fibular fracture	5	—	Absent	Moderate
10	26/M	IED	Open tibial/fibular fracture	6	—	Absent	Mild
11	21/M	GSW	Distal ulnar fracture	6	—	Absent	None
Mean and stand. dev. (range)				5.9 ± 1.0 (4-8)			
Injury/HO							
1	21/M	EFP	Open	4	115	Moderate	None

			tibial/fibular fracture				
2	23/M	IED	Open tibial/fibular fracture	5	83	Severe	None
3	26/M	IED	Transtibial amputation	8	56	Mild	None
4	23/M	IED	Open tibial/fibular fracture	6	83	Mild	Mild
5	26/M	IED	Transfemoral amputation	4	43	Moderate	None
6	19/M	IED	Transtibial amputation	4	40	Moderate	Mild
7	22/M	IED	Open humeral fracture	4	91	Mild	Mild
8	24/M	IED	Transtibial amputation	7	28	Mild#	None
9	22/M	IED	Transtibial amputation	5	43	Mild	None
10	34/M	IED	Open femoral fracture	5	38	Moderate	None
11	23/M	IED	Open tibial/fibular fracture	6	63	Moderate	None
12	23/M	IED	Open tibial/fibular fracture	8	45	Mild	Mild
13	26/M	IED	Distal humeral fracture	4	14	Moderate	Mild
14	33/M	IED	Transtibial amputation	5	22	Moderate	None
Mean and stand. dev. (range)				5.4 ± 1.4 (4-8)	54.6 ± 29.0 (14 ± 115)	—	—

\*HO = heterotopic ossification. †Control = normal, uninjured hamstring muscle harvested for ACL autograft, Injury/no HO = traumatized muscle from a wound in which heterotopic ossification did not subsequently develop, Injury/ HO = traumatized muscle from a wound in which heterotopic ossification did subsequently develop. ‡Sports = a low-energy knee injury occurring in a non-combat environment, IED = improvised explosive device, EFP = explosively formed penetrator, and GSW = gunshot wound. §Based on the radiographic classification, described by Potter et al.<sup>13</sup>, of heterotopic ossification as a percentage of residual soft-tissue width. Absent = 0%, mild = <25%, moderate = 25% to 50%, and severe = >50%. #The heterotopic ossification lesion was initially noted intraoperatively and excised, prior to radiographic diagnosis and twenty-eight days after injury.