

TABLE E-1 Definition of Leg Injury Characteristics

Injury Characteristic (Source)
Osseous injury (AO/OTA classification ¹²)
0 (none)
AO Type A
AO Type B
AO Type C
Muscle injury (AO classification ¹³)
None to mild = no injury or laceration/avulsion involving a single compartment or single tendon (AO types 1-2)
Moderate = laceration/avulsion of ≤ 2 compartments or complete laceration/avulsion of ≥ 2 tendons (AO types 3-4)
Severe = crush injury (AO type 5)
Venous injury (Limb Salvage Index ⁵)
None to mild = no injury or contusion, partial laceration/avulsion or complete laceration/avulsion if alternate route of venous return is intact or superficial vein injury
Moderate to severe = complete laceration/avulsion or thrombosis with no alternate route of venous return
Plantar sensation (Hannover Fracture Scale ¹⁴)
Present or absent
Associated foot injury (Tscherne classification ¹¹)
None or Tscherne closed grade 0-3 or Tscherne open grade 1-2
Tscherne open grade 3-4

TABLE E-2 Comparison of Patient Characteristics by Group

Patient Characteristics	Insensate Amputation Group (N = 26)	Insensate Salvage Group (N = 29)	Sensate Control Group (N = 29)
Age			
<35	46.2% (12)	48.3% (14)	55.2% (16)
35-44	26.9% (7)	27.6% (8)	13.8% (4)
45+	26.9% (7)	24.1% (7)	31.0% (9)
Gender			
Male	88.5% (23)	79.3% (23)	69.0% (20)
Female	11.5% (3)	20.7% (6)	31.0% (9)
Level of education			
<High school	30.8% (8)	37.9% (11)	13.8% (4)†
High school graduate	42.3% (11)	31.0% (9)	55.2% (16)
>High school graduate	26.9% (7)	31.0% (9)	31.0% (9)
Marital status			
Married	53.8% (14)	37.9% (11)	34.5% (10)
Widowed/divorced/separated	19.2% (5)	24.2% (7)	34.5% (10)
Never married	26.9% (7)	37.9% (11)	31.0% (9)
Household income			
<\$15,000	26.9% (7)	20.7% (6)	17.2% (5)
\$15,000-24,999	15.4% (4)	34.5% (10)	27.6% (8)
\$25,000-44,999	34.6% (9)	27.6% (8)	34.5% (10)
\$45,000+	23.1% (6)	17.2% (5)	20.7% (6)
Type of insurance			
None	34.6% (9)	41.4% (12)	44.8% (13)
Public	11.5% (3)	6.9% (2)	3.4% (1)
Private	53.8% (14)	51.7% (15)	51.7% (15)
Self-rated health			
Good to excellent	96.2% (25)	89.7% (26)	82.8% (24)
Fair to poor	3.8% (1)	10.3% (3)	17.2% (5)
Preexisting conditions			
None	76.9% (20)	69.0% (20)	44.8% (13)†
One or more	23.1% (6)	31.0% (9)	55.2% (16)
Smoking status			
Does not smoke	50.0% (13)	51.7% (15)	55.2% (16)
Smokes	50.0% (13)	48.3% (14)	44.8% (13)
Alcohol problem‡			
Not likely	66.7% (16)	62.1% (18)	74.1% (20)
Likely	33.3% (8)	37.9% (11)	25.9% (7)

†Characteristic differs ($0.05 \leq p \leq 0.10$) compared with insensate salvage group. ‡Missing data.

TABLE E-3 Comparison of Injury Characteristics by Group*

Injury Characteristics	Insensate Amputation Group (N = 26)	Insensate Salvage Group (N = 29)	Sensate Control Group (N = 29)
Injury Severity Score [†]			
<13	80.8% (21)	65.5% (19)	65.5% (19)
≥13	19.2% (5)	34.5% (10)	34.5% (10)
Shock			
No	84.6% (22)	72.4% (21)	75.9% (22)
Yes	15.4% (4)	27.6% (8)	24.1% (7)
Mechanism of injury			
MVA/MCA/pedestrian	42.3% (11)	55.2% (16)	62.1% (18)
Other blunt	26.9% (7)	31.0% (9)	31.0% (9)
Penetrating	30.8% (8)	13.8% (4)	6.9% (2)
Type of study injury [‡]			
IIIC tibial fracture	19.2% (5)	20.7% (6)	10.3% (3)
IIIB tibial fracture	15.4% (4)	3.5% (1)	20.7% (6)
Dysvascular	19.2% (5)	17.2% (5)	6.9% (2)
Soft tissue	26.9% (7)	17.2% (5)	13.8% (4)
Foot/ankle/pilon	19.2% (5)	37.9% (11)	34.5% (10)
IIIA tibial fracture	0.0% (0)	3.4% (1)	13.8% (4)
Type of tibial fracture			
None/closed	57.7% (15)	51.7% (15)	44.8% (13)
IIIA	3.8% (1)	10.3% (3)	10.3% (3)
IIIB	19.2% (5)	13.8% (4)	17.2% (5)
IIIC	19.2% (5)	24.1% (7)	27.6% (8)
Extent of bone loss			
Mild to moderate	76.9% (20)§	96.6% (28)	86.2% (25)
Moderate to severe	23.1% (6)	3.4% (1)	13.8% (4)
Extent of muscle injury			
None to mild	30.8% (8)	48.3% (14)	48.3% (14)
Moderate	30.8% (8)	27.6% (8)	27.6% (8)
Severe	38.4% (10)	24.1% (7)	24.1% (7)
Extent of vein injury			
None to mild	65.4% (17)	82.8% (24)	82.8% (24)
Moderate to severe	34.6% (9)	17.2% (5)	17.2% (5)
Injury Characteristics			
Limb ischemia			
Normal	42.3% (11)	41.4% (12)	72.4% (21)§
Abnormal	57.7% (15)	58.6% (17)	27.6% (8)
Extent of skin injury			
0-½ circumference	76.9% (20)	75.9% (22)	82.8% (24)
>½ circumference	23.1% (6)	24.1% (7)	17.2% (5)
Extent of contamination			
None or single	61.5% (16)	79.3% (23)	58.6% (17)#
Multiple or massive	38.5% (10)	20.7% (6)	41.4% (12)
Foot fracture			
None, closed, open 1-2	80.8% (21)	72.4% (21)	79.3% (23)
Open 3-4	19.2% (5)	27.6% (8)	20.7% (6)

*MVA = motor vehicle accident; MCA = motorcycle accident. †Missing data. ‡No statistical comparison made between groups for this characteristic. §Characteristic differs significantly ($p \leq 0.05$) compared with insensate salvage group. #Characteristic differs ($0.05 \leq p \leq 0.10$) compared with insensate salvage group.