## **Supplementary Online Content**

Newgard CD, Caughey A, McConnell KJ, et al. Comparison of injured older adults included in vs excluded from trauma registries with 1-year follow-up. *JAMA Surg.* Published online July 10, 2019. doi:10.1001/jamasurg.2019.2279

eFigure. Cohort development schematic

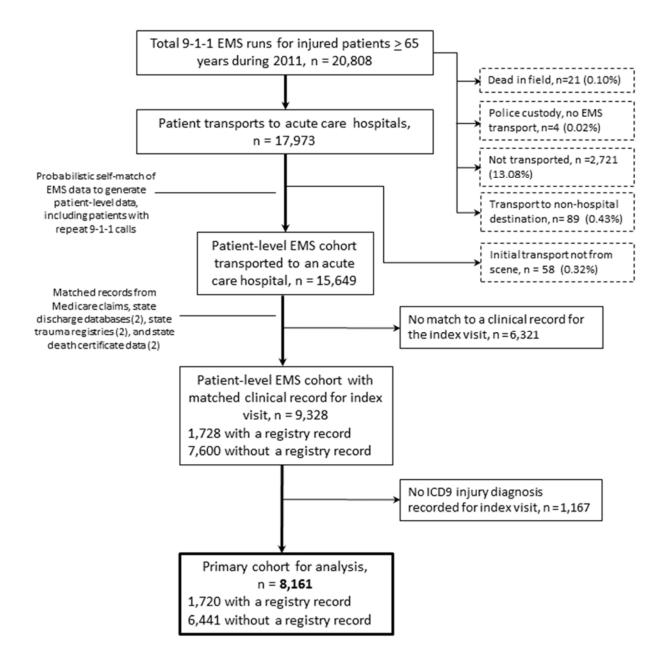
eTable 1. Comparison of patients included vs excluded from the primary analytic cohort

**eTable 2.** Specific injury diagnoses among 2241 older adults with extremity Abbreviated Injury Scale (AIS) scores ≥3 by trauma registry status and whether the injury was isolated

**eTable 3.** Absolute numbers of high-risk patients not captured by trauma registries by final hospital destination

This supplementary material has been provided by the authors to give readers additional information about their work.

## eFigure 1. Cohort development schematic



eTable 1. Comparison of patients included vs excluded from the primary analytic cohort

	Prin	nary study sa	Excl	Excluded		
	Captured in a trauma registry		Not in a trauma registry		-	
	n = 1,720		n = 6,441		n = 7,488†	
Demographics:						-
Mean – age (years)	80.5		82.6		81.8	
Women	1,032	(60.0%)	4,547	(70.6%)	4,961	(67.2%)
Out-of-hospital characteristics:						
Met field triage criteria, per EMS	1,240	(72.1%)	158	(2.5%)	146	(2.0%)
SBP ≤ 100 mmHg	99	(5.8%)	269	(4.2%)	256	(3.7%)
Respiratory rate $\leq 10$ or $\geq 24$	186	(10.8%)	354	(5.5%)	357	(5.4%)
GCS ≤ 8	50	(2.9%)	8	(0.1%)	14	(0.3%)
Assisted ventilation	40	(2.3%)	22	(0.3%)	28	(0.4%)
Mechanism of Injury						
Fall	1,412	(82.1%)	5,803	(90.1%)	3,764	(80.8%)
Motor vehicle crash	195	(11.4%)	183	(2.9%)	319	(6.8%)
Motor vehicle vs. pedestrian	38	(2.2%)	28	(0.4%)	26	(0.6%)
Penetrating injury	10	(0.6%)	50	(0.8%)	36	(0.8%)
Other	65	(3.8%)	377	(5.9%)	3,343	(11.0%)
Initial hospital:						
Level I	501	(29.1%)	408	(6.3%)	472	(6.4%)
Level II	214	(12.4%)	401	(6.2%)	492	(6.6%)
Level III	608	(35.4%)	904	(14.0%)	1,257	(17.0%)
Level IV/V	263	(15.3%)	970	(15.1%)	1,057	(14.3%)
Non-trauma hospital	134	(7.8%)	3,758	(58.3%)	4,140	(55.9%)
Mortality:						
30-day mortality	152	(8.8%)	392	(6.1%)	251	(3.4%)
90-day mortality	229	(13.3%)	725	(11.3%)	509	(6.8%)
365-day mortality	356	(20.7%)	1,531	(23.8%)	1,288	(17.2%)

\*EMS = emergency medical services; SBP = systolic blood pressure: GCS = Glasgow Coma Scale score; ISS = Injury Severity Score; AIS = Abbreviated Injury Scale score.

†Based on observed values for each variable. Missingness about excluded patients ranged from 0% (mortality, age, assisted ventilation) to 37.8% (mechanism of injury).

**eTable 2.** Specific injury diagnoses among 2241 older adults with extremity Abbreviated Injury Scale (AIS) scores ≥3 by trauma registry status and whether the injury was isolated

	(all other body r	emity AIS ≥ 3 regions AIS ≤ 1) I,982)	All patients with extremity AIS ≥ 3 (n = 2,241)		
	In Trauma Registry (n = 339)	Not in Trauma Registry (n = 1,643)	In Trauma Registry (n = 449)	Not in Trauma Registry (n = 1,792)	
Fracture of neck of femur (hip)	240 (70.8%)	1,491 (90.7%)	304 (67.7%)	1,628 (90.8%)	
Fracture of pelvis	11 (3.2%)	16 (1%)	33 (7.3%)	19 (1.1%)	
Fracture of humerus	3 (0.9%)	5 (0.3%)	6 (1.3%)	7 (0.4%)	
Fracture of radius & ulna	16 (4.7%)	13 (0.8%)	23 (5.1%)	14 (0.8%)	
Fracture of other & unspecified parts of femur	90 (26.5%)	192 (11.7%)	116 (25.8%)	219 (12.2%)	
Fracture of tibia & fibula	7 (2.1%)	2 (0.1%)	11 (2.4%)	2 (0.1%)	
Fracture of ankle	12 (3.5%)	12 (0.7%)	14 (3.1%)	12 (0.7%)	
Dislocations	3 (0.9%)	2 (0.1%)	6 (1.3%)	2 (0.1%)	
Traumatic amputation of leg or foot	2 (0.3%)	0	2 (0.2%)	0	
Injury to blood vessels of upper extremity	0	0	1 (0.2%)	0	
Injury to blood vessels of lower extremity	2 (0.6%)	1 (0.1%)	5 (1.1%)	1 (0.1%)	
Crushing injury of upper limb	0	1 (0.1%)	0	1 (0.1%)	
Crushing injury of lower limb	3 (0.9%)	1 (0.1%)	3 (0.7%)	1 (0.1%)	
Crushing injury of multiple or unspecified sites	0	1 (0.1%)	0	1 (0.1%)	

\*Patients could have more than one type of extremity injury with AIS  $\geq$  3, so row proportions may add to greater than 100%.

**eTable 3.** Absolute numbers of high-risk patients not captured by trauma registries by final hospital destination

High-risk definition	Non- trauma hospital	Level IV-V	Level III	Level II	Level I	Total
ISS >= 16	113	9	19	17	20	178
Head AIS >= 3	101	12	31	15	20	179
Chest AIS >= 3	26	7	4	6	3	46
Abdominal-pelvic AIS >= 3	3	0	3	1	0	7
Major non-orthopedic surgery	47	6	9	2	4	68
Extremity AIS ≥ 3	1147	254	206	115	70	1792
Orthopedic surgery	1158	245	214	114	78	1809