

Supplementary Online Content

Winter E, Hynes AM, Shultz K, Holena DN, Malhotra NR, Cannon JW.

Association of police transport with survival among patients with penetrating trauma in Philadelphia, Pennsylvania. *JAMA Netw Open*. 2021;4(1):e2034868. doi:10.1001/jamanetworkopen.2020.34868

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

eTable 1. Mortality in the Whole Cohort

		Whole Cohort			
		Police n = 1970	EMS n = 1343	Odds Ratio (95% CI)	P Value
Patient Mortality	Overall	620 (31.47)	258 (19.21)	1.93 (1.64-2.28)	< .001
	Arrival	334 (16.95)	150 (11.17)	1.62 (1.32-2.00)	< .001
	1-Hour	398 (20.20)	175 (13.03)	1.69 (1.39-2.05)	< .001
	6-Hour	505 (25.63)	213 (15.86)	1.83 (1.53-2.18)	< .001
	24-Hour	560 (28.43)	236 (17.54)	1.86 (1.57-2.21)	< .001

Data shown as n (%) and odds ratio (OR) with 95% CI. Bold text denotes statistically significant result.

eTable 2. Mortality Comparing Police Transport With the Fire Rescue Subgroup of Emergency Medical Services Transport

		Whole Cohort				Matched Cohort			
		Police n = 1970	Fire Rescue n = 1205	Odds Ratio (95% CI)	P Value	Police n = 797	Fire Rescue n = 797	Odds Ratio (95% CI)	P Value
Patient Mortality	Overall	620 (31.47)	228 (18.92)	1.97 (1.66-2.34)	< .001	198 (24.84)	203 (25.47)	0.82 (0.44-1.49)	.568
	Arrival	334 (16.95)	137 (11.37)	1.59 (1.29-1.97)	< .001	110 (13.80)	124 (15.56)	0.65 (0.38-1.09)	.109
	1-Hour	398 (20.20)	159 (13.20)	1.67 (1.36-2.03)	< .001	130 (16.31)	144 (18.07)	0.59 (0.32-1.05)	.076
	6-Hour	505 (25.63)	190 (15.77)	1.84 (1.53-2.22)	< .001	162 (20.33)	171 (21.46)	0.71 (0.39-1.27)	.272
	24-Hour	560 (28.43)	209 (17.34)	1.89 (1.58-2.26)	< .001	175 (21.96)	186 (23.34)	0.69 (0.39-1.19)	.193

Data shown as n (%) and odds ratio (OR) with 95% CI. Bold text denotes statistically significant result.

eTable 3. Mortality Comparing Police Transport With the Ambulance Subgroup of Emergency Medical Services Transport

		Whole Cohort				Matched Cohort			
		Police n = 1970	Ambulance n = 138	Odds Ratio (95% CI)	P Value	Police n = 129	Ambulance n = 129	Odds Ratio (95% CI)	P Value
Patient Mortality	Overall	620 (31.47)	30 (21.74)	1.65 (1.09-2.51)	.014	34 (26.36)	29 (22.48)	2.67 (0.64-15.61)	.227
	Arrival	334 (16.95)	13 (9.42)	1.96 (1.10-3.52)	.014	12 (9.30)	13 (10.08)	0.83 (0.20-3.28)	1.000
	1-Hour	398 (20.20)	16 (11.59)	1.93 (1.13-3.29)	.009	17 (13.18)	16 (12.40)	1.25 (0.27-6.30)	1.000
	6-Hour	505 (25.63)	23 (16.67)	1.72 (1.09-2.73)	.014	22 (17.05)	22 (17.05)	1.00 (0.30-3.34)	1.000
	24-Hour	560 (28.43)	27 (19.57)	1.63 (1.06-2.51)	.020	29 (22.48)	26 (20.16)	1.50 (0.48-5.12)	.607

Data shown as n (%) and odds ratio (OR) with 95% CI. Bold text denotes statistically significant result.

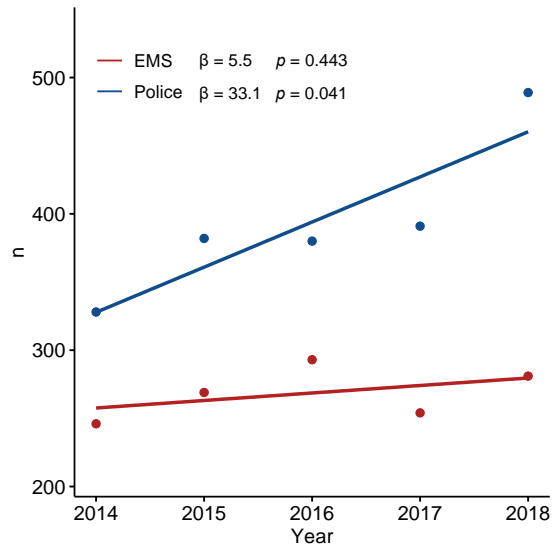
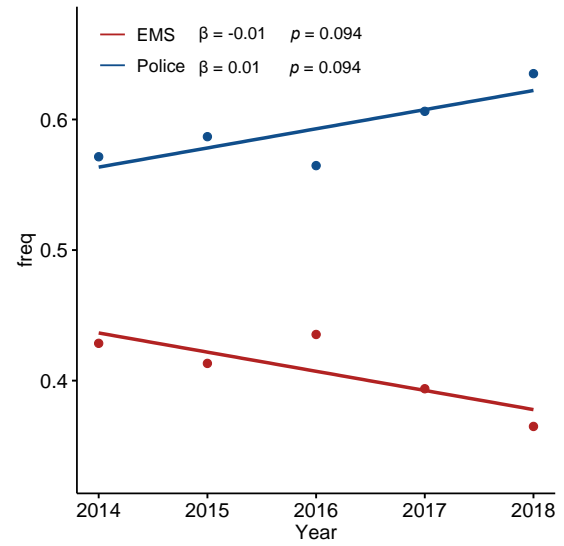
eTable 4. Mortality in the Whole Cohort Grouped by Injury Severity

			Whole Cohort			
			Police n=1970*	EMS n=1343†	Odds Ratio (95% CI)	P Value
Overall	ISS	1-8	34 (9.07)	22 (4.44)	2.15 (1.23-3.74)	.006
		9-25	207 (19.68)	92 (14.72)	1.42 (1.09-1.86)	.010
		26-75	379 (70.06)	144 (64.86)	1.27 (0.91-1.77)	.163
Arrival	ISS	1-8	26 (6.93)	20 (4.03)	1.77 (0.97-3.23)	.060
		9-25	106 (10.08)	47 (7.52)	1.38 (0.96-1.97)	.075
		26-75	202 (37.34)	82 (37.39)	1.00 (0.72-1.38)	.989
1-Hour	ISS	1-8	31 (8.27)	22 (4.44)	1.94 (1.10-3.41)	.020
		9-25	126 (11.98)	61 (9.76)	1.26 (0.91-1.74)	.160
		26-75	241 (44.55)	92 (41.44)	1.14 (0.83-1.56)	.432
6-Hour	ISS	1-8	33 (8.80)	22 (4.44)	2.08 (1.19-3.63)	.009
		9-25	164 (15.59)	77 (12.32)	1.31 (0.98-1.76)	.063
		26-75	308 (56.93)	114 (51.35)	1.25 (0.92-1.71)	.160
24-Hour	ISS	1-8	34 (9.07)	22 (4.44)	2.15 (1.23-3.74)	.006
		9-25	186 (17.68)	83 (13.28)	1.40 (1.06-1.86)	.016
		26-75	340 (62.85)	131 (59.01)	1.18 (0.85-1.62)	.323

Data shown as n (%) and odds ratio (OR) with 95% CI. Bold text denotes statistically significant result.
Emergency Medical Services, EMS; Injury Severity Score, ISS

*ISS 1-8 n=375, 9-25 n=1052, 26-75 n=543

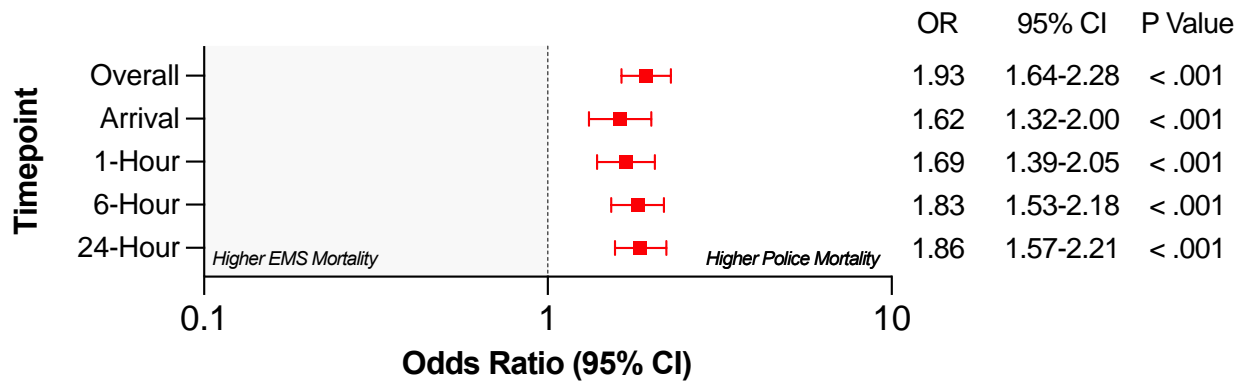
†ISS 1-8 n= 496, 9-25 n=625, 26-75 n=222

A**B**

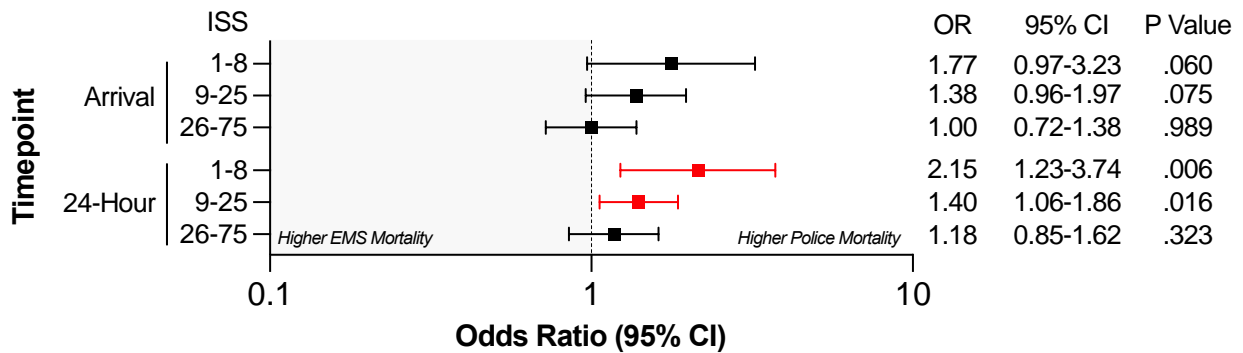
eFigure 1. Police vs Emergency Medical Services (EMS) Transport Over Time

(A) Number of transports in each cohort from 2014 to 2018. (B) Relative frequency of police vs EMS transport for each year from 2014 to 2018.

A

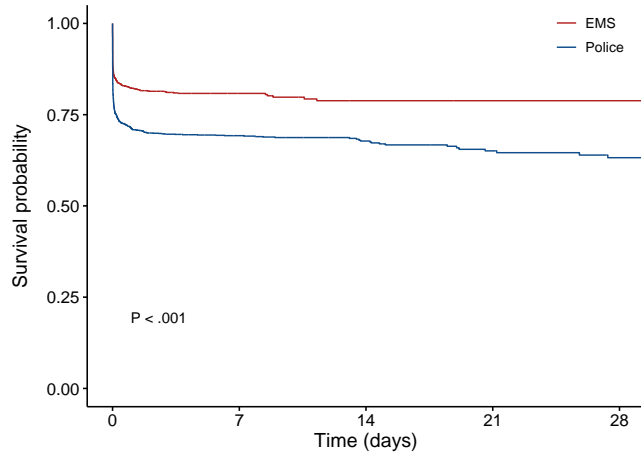


B

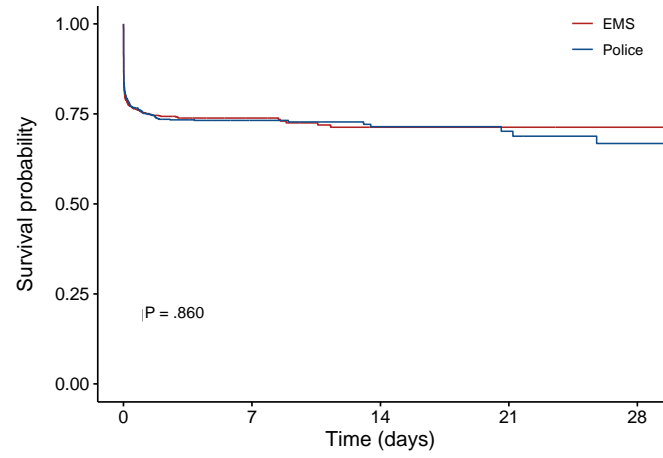


eFigure 2. Whole Cohort Outcomes

(A) Odds ratios and 95% confidence intervals for whole cohort patient outcomes at several different time points after trauma center arrival. (B) Odds ratios and 95% confidence intervals for whole cohort patient outcomes with different injury severity scores, at several different time points after trauma center arrival.

A

EMS	1343	315	113	64	32
Police	1970	613	270	141	82

B

EMS	870	223	82	46	24
Police	870	242	98	51	29

eFigure 3. Patient Survival for Police vs Emergency Medical Services (EMS) Transport

(A) Kaplan-Meier curve comparing unadjusted 28-day survival for the whole cohort. (B) Kaplan-Meier curve comparing unadjusted 28-day survival for the matched cohort.