

Supplement Table 1. Modified Poisson Regression with Robust Standard Errors Analysis of Athlete and Event Characteristics and School Socioeconomic Indicators with Survival from Exercise-Related Sudden Cardiac Arrest in High School Student-Athletes, July 1, 2014 to June 30, 2018

Variable		Unadjusted				Fully adjusted SES and year indicator variables*			
		RR	LCL	UCL	p> Z	RR	LCL	UCL	p> Z
Female sex	Yes	0.78	0.46	1.31	P=0.3393	0.87	0.36	2.10	P=0.7582
	No	1.00			--	1.00			--
Minority status	Yes	0.67	0.49	0.92	P=0.0144	0.76	0.52	1.13	P=0.1744
	No	1.00			--	1.00			--
AT employment	Yes	1.41	0.79	2.52	P=0.2455	1.64	0.65	4.10	P=0.2931
	No	1.00			--	1.00			--
Academic year	2014-2015	1.00			--	1.00			--
	2015-2016	1.01	0.67	1.54	P=0.9557	1.06	0.58	1.92	P=0.8515
	2016-2017	1.22	0.84	1.77	P=0.3013	1.30	0.80	2.13	P=0.2922
	2017-2018	1.30	0.91	1.85	P=0.1519	1.35	0.88	2.07	P=0.1754
Median Household Income	0-10 th percentile	0.87	0.53	1.43	P=0.5854	1.23	0.66	2.28	P=0.5135
	20-80 th percentile	1.00			--	1.00			--
	90-100 th percentile	1.22	0.89	1.67	P=0.2150	1.15	0.59	2.24	P=0.6707
Free/reduced lunch proportion	0-10 th percentile	1.13	0.77	1.66	P=0.5197	1.00	0.49	2.01	P=0.9934
	20-80 th percentile	1.00			--	1.00			--
	90-100 th percentile	0.65	0.31	1.37	P=0.2555	0.86	0.31	2.42	P=0.7755
Proportion of minority students	0-10 th percentile	1.18	0.84	1.66	P=0.3437	1.04	0.61	1.78	P=0.8898
	20-80 th percentile	1.00			--	1.00			--
	90-100 th percentile	0.67	0.35	1.3	P=0.2372	0.93	0.37	2.32	P=0.8812

*median household income, free reduced lunch, minority status and year are included in the model as indicator variables. Referent category noted. Does not assume linear relationship.

**median household income, free reduced lunch, minority status and year are included in the model as continuous ordinal variables (SES variables 3 level and Year 4-level). Assume a linear relationship between outcome and SES and year. Justification is the linear/dose response trend in the tertile variables for SES and the year variable.

Not included in the multivariate model

Variable		Unadjusted				Adjusted			
		RR	LCL	UCL	p> Z	RR	LCL	UCL	p> Z
Median family income	0-10 th percentile	0.87	0.53	1.43	P=0.5854	--	--	--	--
	20-80 th percentile	1.00				--	--	--	--
	90-100 th percentile	1.22	0.89	1.67	P=0.2150	--	--	--	--
Academic year binary	1	1.25	0.97	1.62	P=0.0905	--	--	--	--

Supplement Table 2. Resuscitation Details for Cases of Exercise-Related Sudden Cardiac Arrest and Survival on High School Campuses, July 1, 2014 to June 30, 2018

	Sudden Cardiac Arrest with Survival n (%)	Sudden Cardiac Death n (%)	Total n (%)
Witnessed arrest?			
Yes	74 (99)	33 (92)	107 (96)
No	1 (1)	3 (8)	4 (4)
Unknown	0 (0)	0 (0)	0 (0)
Bystander CPR performed?			
Yes	70 (93)	18 (50)	88 (79)
No	0 (0)	0 (0)	0 (0)
Unknown	5 (7)	18 (50)	23 (21)
On-site AED?			
Yes	55 (73)	10 (28)	65 (59)
No	1 (1)	0 (0)	1 (1)
Unknown	19 (25)	26 (72)	45 (41)
AED used?			
Yes	52 (69)	9 (25)	61 (55)
No	10 (13)	5 (14)	15 (14)
Unknown	13 (17)	22 (61)	35 (32)
Athletic trainer on-site?			
Yes	38 (51)	8 (22)	46 (41)
No	4 (5)	1 (3)	5 (5)
Unknown	33 (44)	27 (75)	60 (54)
EMS defibrillator used?			
Yes	9 (12)	5 (14)	14 (13)
No	29 (39)	0 (0)	29 (26)
Unknown	37 (49)	31 (86)	68 (61)
Total	75	36	111

CPR= cardiopulmonary resuscitation, AED= automated external defibrillator, EMS= emergency medical services