

**Appendix 2: Supplementary tables [posted as supplied by author]**

**Table A.** Estimated proportion of time spent in specific duties.

Duty	Survey of police chiefs*	Survey of frontline police officers* (by population of jurisdiction)			
	(n=93)	All (n=951)	≤10,000 (n=52†)	10,001–100,000 (n=238†)	>100,000 (n=646†)
<b>Routine/non-emergency</b>	72.8 (66.9 to 75.2)	77.4 (75.8 to 78.7)	81.1 (74.7 to 85.4)	77.7 (75.5 to 80.1)	76.9 (75.0–78.8)
<b>Disturbance</b>	8.8 (7.4 to 11.1)	9.6 (8.3 to 10.9)	6.1 (4.1 to 9.3)	9.2 (7.3 to 10.5)	10.1 (8.3 to 11.6)
<b>Testifying in court</b>	1.3 (0.8 to 1.6)	1.4 (1.3 to 1.7)	1.5 (0.8 to 2.8)	1.2 (1.0 to 2.0)	1.4 (1.3 to 1.8)
<b>Serving a warrant</b>	2.4 (1.3 to 2.9)	1.6 (1.2 to 2.1)	1.1 (0.5 to 2.4)	1.9 (1.2 to 2.6)	1.6 (1.1 to 2.1)
<b>Transporting/supervising prisoners</b>	4.1 (3.1 to 11.9)	2.2 (2.0 to 2.4)	1.5 (1.0 to 2.9)	2.2 (1.8 to 2.5)	2.3 (2.0 to 3.1)
<b>Medical and rescue operations</b>	3.9 (2.9 to 4.8)	2.9 (2.6 to 3.1)	3.4 (2.3 to 4.7)	3.2 (2.8 to 3.9)	2.6 (2.4 to 2.9)
<b>Physical training</b>	3.1 (2.2 to 4.1)	2.9 (2.5 to 3.3)	2.4 (0.4 to 3.8)	2.9 (2.0 to 3.6)	3.0 (2.5 to 3.5)
<b>Pursuit</b>	1.2 (0.9 to 1.8)	0.8 (0.7 to 1.0)	2.0 (0.0 to 4.8)	0.6 (0.4 to 1.2)	0.9 (0.6 to 1.1)
<b>Restraint, physical altercation</b>	2.3 (1.1 to 2.8)	1.2 (1.1 to 1.3)	0.7 (0.4 to 2.0)	1.0 (0.8 to 1.6)	1.2 (1.1 to 1.8)

Modified from Korre et al. (2014). All values are % of time (95% percentile bootstrap confidence intervals based on 10,000 repetitions).

\*Estimates based on mean values after exclusion of statistical outliers. Outliers were defined as survey responses lower than 1.5 times the interquartile range below the 25<sup>th</sup> percentile or higher than 1.5 times the interquartile range above the 75<sup>th</sup> percentile of each duty.

†Information on population was missing for 15 police officers.

**Table B.** Sudden cardiac death cases and associated duties, by source database.

<b>Duty</b>	<b>Total unique SCD cases</b>	<b>Cases included in the NLEOMF</b>	<b>Cases Denied by the NLEOMF*</b>	<b>Cases included in the ODMP</b>
	<b>N (%)</b>	<b>N (%)</b>	<b>N (%)</b>	<b>N (%)</b>
<b>Routine/non-emergency</b>	101 (23)	43 (13)	48 (59)	54 (15)
<b>Disturbance</b>	20 (5)	17 (5)	2 (2)	17 (5)
<b>Testifying in court</b>	3 (1)	1 (1)	2 (2)	1 (0)
<b>Serving a warrant</b>	6 (1)	5 (2)	0 (0)	5 (1)
<b>Transporting or supervising prisoners</b>	18 (4)	8 (2)	7 (9)	11 (3)
<b>Medical and rescue operations</b>	34 (8)	27 (8)	4 (5)	31 (9)
<b>Physical training</b>	88 (20)	72 (22)	9 (11)	78 (22)
<b>Pursuit</b>	53 (12)	53 (16)	0 (0)	53 (15)
<b>Restraint, physical altercation</b>	108 (24)	101 (31)	4 (5)	103 (29)
<b>Not Specified-Missing</b>	10 (2)	4 (1)	5 (6)	6 (2)
<b>TOTAL</b>	<b>441 (100)</b>	<b>331 (100)</b>	<b>81 (100)</b>	<b>359 (100)</b>

\*Cases excluded from the NLEOMF database but meeting criteria for inclusion in the current study; see the Methods section for details.  
 NLEOMF = National Law Enforcement Officers Memorial Found; ODMP = Officer Down Memorial Page.

**Table C.** Risk of sudden cardiac death among law enforcement officers engaged in emergency and strenuous duties as compared to officers engaged in routine/non-emergency duties, combined data from the NLEOMF and the ODMP (1984-2010). Analysis stratified by officers' age at death and using estimates from frontline police officer survey.

Duty	Age up to 44 years (159 events)					Age above 45 years (272 events)				
	Observed events (%)	% time per duty*	Expected events	O/E	RR (95%CI)	Observed events (%)	% time per duty*	Expected events	O/E	RR (95% CI)
<b>Routine/non-emergency</b>	32 (20)	76.9	122.3	0.42	1.00 (Ref.)	69 (25)	77.2	210.0	0.89	1.00 (Ref.)
<b>Disturbance</b>	6 (4)	10.1	16.0	0.59	1.43 (0.60 to 3.41)	14 (5)	8.9	24.2	1.57	1.76 (0.99 to 3.13)
<b>Testifying in court</b>	2 (1)	1.3	2.1	1.54	3.70 (0.89 to 15.4)	1 (0)	1.5	4.1	0.67	0.75 (0.10 to 5.37)
<b>Serving a warrant</b>	1 (1)	1.8	2.9	0.56	1.33 (0.18 to 9.77)	5 (2)	1.2	3.3	4.17	4.66 (1.88 to 11.6)
<b>Transporting or supervising prisoners</b>	5 (3)	2.2	3.5	2.27	5.46 (2.13 to 14.0)	13 (5)	2.2	6.0	5.91	6.61 (3.66 to 12.0)
<b>Medical and rescue operations</b>	8 (5)	2.7	4.3	2.96	7.12 (3.28 to 15.5)	26 (10)	3.2	8.7	8.12	9.09 (5.79 to 14.3)
<b>Physical training</b>	48 (30)	2.9	4.6	16.6	39.8 (25.4 to 62.2)	40 (15)	2.8	7.6	14.3	16.0 (10.8 to 23.6)
<b>Pursuit</b>	30 (19)	0.9	1.4	33.3	80.1 (48.7 to 131.8)	23 (8)	0.8	2.2	28.7	32.2 (20.1 to 51.6)
<b>Restraint, physical altercation</b>	27 (17)	1.1	1.7	24.5	60.0 (35.3 to 98.4)	81 (30)	2.1	5.7	38.6	43.2 (31.3 to 59.5)

\*Based on data from Korre et al. (2014).

CI = confidence interval; NLEOMF = National Law Enforcement Officers Memorial Fund; O/E = observed over expected number of events; ODMP = Officer Down Memorial Page; Ref. = reference category; RR = relative risk.