Short time between shifts and risk of injury among Danish hospital workers: a register-based cohort study [1]

by Helena B Nielsen, MSc,[2] Åse M Hansen, PhD, Sadie H Conway, PhD, Johnny Dyreborg, PhD, Johnni Hansen, PhD, Henrik A Kolstad, PhD, Ann D Larsen, PhD, Kirsten Nabe-Nielsen, PhD, Lisa A Pompeii, PhD, Anne H Garde, PhD

1 *Appendix*

2 *Correspondence to: Helena Breth Nielsen, National Research Centre for the Working Environment, Lersø Parkallé 105, 2100 Copenhagen Ø, Denmark. [E-mail: hbn@nrcwe.dk].*

Table 4: *Sensitivity analysis of employees with at least one quick return the past year (N = 36 875)*

Incidence rate ratio (IRR) of injury with 95% confidence interval (95%CI), by time between shift, quick returns, number of quick returns and days since quick return.

		Injury cases	PY	**Model 2: QR periods**		
		n= 5387	PY= 65 979	IRR	95%CI	P-value
Time between shifts (hours)						
|--- Quick returns ---|	1-2	17	155	1.35	0.84-2.18	0.013
	3-5	19	118	1.98	1.26-3.13	
	6-8	116	1078	1.16	0.96-1.40	
	9-11	107	1080	1.16	0.95-1.41	
	12-14	163	1574	1.24	1.06-1.46	
	15-17 (ref)	1766	20 431	1		
Continuous (1-17)				0.96	0.95-0.98	<0.001

Quick return (hours)					
15-17 (ref)	1766	20 431	1		0.009
≤11	259	2431	1.21	1.06-1.38	
Number of quick returns past week					
Continuous	1349	14 945	0.97	0.88-1.08	0.610
Days since quick return					
Day 0: 15-17 hours (ref)	1766	20 431	1		
Day 0: quick return	259	2431	1.21	1.06-1.38	0.009
Day 1: 15-17 hours (ref)	1571	20 770	1		
Day 1: quick return	229	2302	1.29	1.12-1.48	0.001
Day 2: 15-17 hours (ref)	1532	20 939	1		
Day 2: quick return	177	2253	1.05	0.90-1.23	0.540
Day 3: 15-17 hours (ref)	1530	20 526	1		
Day 3: quick return	171	2180	1.03	0.88-1.21	0.733

Day 4: 15-17 hours	1601	20 039			
(ref)			1		
Day 4: quick return	181	2061	1.06	0.91-1.24	0.474
Day 5: 15-17 hours	1538	19 537			
(ref)			1		
Day 5: quick return	174	1935	1.11	0.95-1.30	0.219
Day 6: 15-17 hours	1427	18 490			
(ref)			1		
Day 6: quick return	158	1784	1.12	0.95-1.32	0.195
Days since quick return					
Continuous (0-6 days)	1349	14 945	0.97	0.94-1.00	0.027

Adjustment model 2: year, season, age, sex and occupation.

Minor differences in cases and person-years are due to data structure.