

## Background/Problem/Objective

One person died of burnout every 11 days in Taiwan. And evidence have shown that overtime working, extreme stress, or heavy workload may trigger or worsen cardiovascular disease, which is defined as "burnout." Since medical personnel often work shifts, at night, or for a long time, they are exposed to high risk of burnout. The objective of this study is to make a census of the entire staff in a medical center to screen out the high-risk group of burnout. Methods/Intervention

Through holding several lectures of occupational safety and health for staff in certain medical center during January 1 to March 31, 2018, data were collected afterwards via the filling of after-class questionnaires. The questionnaire was constructed after consulting experts in occupational medicine, psychiatry, and psychology, consisted of three parts – demography, burnout and health-related behaviors. The second part was revised from Copenhagen Burnout Inventory, which had good reliability and validity in previous studies. Work-related burnout degrees by demographic variables (N=3592) Results (of evaluation) work-related burnout degrees

3,592 questionnaires were collected, varia with the average age of 36.97, weekly working hour 45.14, and risk of disc cardiovascular disease categorized as low 97.02%. Burnout, divided into 3 degrees - slight 55.60%, medium 29.96%, severe 14.45%, was significantly related to participants' unit, discipline, gender, unit working hour, age, weekly suicidal thoughts, and doing exercise for 30 minutes every day (p<.05). Both weekly working hour and degrees of burnout significantly different between were disciplines, with doctors and nurses to be the highest respectively. Conclusions

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		slight <sup>a</sup>	medium <sup>b</sup>	severe <sup>c</sup>	
riables			n(%)		p value
	doctor	230(56.51)	199(29.24)	58(14.25)	
	nurse	793(46.87)	597(35.28)	302(17.85)	
scipline	medical technician	322(59.74)	146(27.09)	71(13.17)	p<.0001
	administrative staff	495(66.71)	169(22.78)	78(10.51)	
	else	157(74.06)	45(21.23)	10(4.72)	
	ward of multi-department	83(44.15)	67(35.64)	38(20.21)	
	ward of internal medicine	123(43.77)	113(40.21)	45(16.01)	

yes The weekly working hour was longer 399(15.94) 1315(52.54) 789(31.52) no exercise<sup>e</sup> comparing with both national analytic 287(26.35) 120(11.02) 682(62.63) yes data and criterion of Labor Standards Act, <sup>a</sup>n=1997, <sup>b</sup>n=1076, <sup>c</sup>n=519, <sup>d</sup>n=3561, e= abbreviation of "doing exercise for 30 minutes every day" which aroused the attention that medical personnel's working condition should be valued. It was suggested that supervisor used hierarchical management to prevent staffs' diseases and improve their health at the same time. Hence, for those who felt severe burnout, consultation and administrative adjustment should be arranged immediately, even those who felt a slight burnout, manager should encourage them to exercise more often. Acknowledgment

ward of surgery administrative medical related special emergency room else female gender male working hour <=40 (weekly)<sup>d</sup> >40 <=28 age (year) 29-45 >45 no suicidal thoughts

52(35.14) 21(14.19) 75(50.68) 50(8.17) 413(67.48) 149(24.35) p<.0001 158(12.42) 343(26.97) 771(60.61) 267(35.09) 141(18.53) 353(46.39) 59(40.41) 44(30.14) 43(29.45) 120(65.22) 42(22.83) 22(11.96) 1528(54.45) 863(30.76) 415(14.79) p<.05 213(27.10) 104(13.23) 469(59.67) 467(26.62) 182(10.38) 1105(63.00) p<.0001 331(18.32) 597(33.04) 879(48.64) 578(56.17) 309(30.03) 142(13.80) 905(53.61) 509(30.15) 274(16.23) p<.05 514(58.74) 258(29.49) 103(11.77) 1617(66.60) 592(24.38) 219(9.02) p<.0001 300(25.77) 380(32.65) 484(41.58) p<.0001

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