Appendix 1

Table S1. Survey Questionnaire results: Characteristics of survey population

Characteristics	N (N=851)	% (100%)
Gender:		
Male	100	11.8%
Female	751	88.2%
Age (years)		
≤25	132	15.5%
26-30	270	31.7%
31-35	223	26.2%
36-40	83	9.75%
>40	143	16.8%
Occupation		
Nurse	604	71.0%
Doctor	83	9.75%
Allied Health Professionals	68	7.99%
Ancillary Staff*	96	11.3%
Work Location		
Inpatient – Pandemic	476	55.9%
Inpatient – Non-pandemic	345	40.5%
Others#	30	3.52%

* Patient service associate, healthcare assistant
# Outpatient clinic, healthcare workers in the community

Table S2. Survey Questionnaire results: N95 respirator mask pressure related injury among
healthcare workers

Question	No. (total)	%
N95 Respirator Mask Usage at work during pandemic:	(851)	
Yes	621	73.0%
No	230	27.0%
Pressure Related Injuries as a result of N95 Mask:	(621)	
Yes	**394**	**63.4%**
No	193	31.1%
Missing data	34	5.5%
Duration of Pressure Injury:	(394)	
<3 days	206	52.3%
3 days to <7 days	98	24.9%
1 week to <4 weeks	27	6.85%
More than 4 weeks	53	13.5%
Missing data	10	2.54%

Table S3. Survey Questionnaire results: N95 respirator mask usage

Question	No.	%	ρ (*P* value)
N95 Respirator Mask Usage at work during pandemic:			
Yes	621	73.0%	NA
No	230	27.0%	
Average Time of N95 Mask Usage per day (total):			
<30 minutes	27	4.35%	0.229
30 minutes to <4 hours	86	13.8%	(<0.001)
4 hours to < 8 hours	173	27.9%	
More than 8 hours	314	50.6%	
Missing data	21	3.38%	
Average Time of N95 Mask Usage before taking a break:			
<2 hours	143	23.0%	0.140
2 hours to <4hours	210	33.8%	(0.001)
4 hours to <6 hours	193	31.1%	
More than 6 hours	54	8.69%	
Missing data	21	3.38%	

ρ: Spearman's Rank Correlation Coefficient (95% confidence intervals)

Table S4. Multivariate analysis for pressure injury as dependent variable, against various N95 respirator masks models

		Odds Ratio for Pressure Injury		
	ρ	Standard Error	*P* value	OR (95% CI) *
3M 8210	0.827	0.34	0.015	2.29 (1.17 – 4.46)
3M 1860	1.274	0.31	<0.001	3.57 (1.93 – 6.61)
3M 1860S	0.985	0.17	<0.001	2.68 (1.92 – 3.73)
3M 8110S	0.699	0.18	<0.001	2.01 (1.43 – 2.84)
3M 1870	0.068	0.16	0.670	1.07 (0.78 – 1.46)

ρ: Spearman's Rank Correlation Coefficient

*OR (95% CI): Adjusted odds ratio (95% confidence interval)