

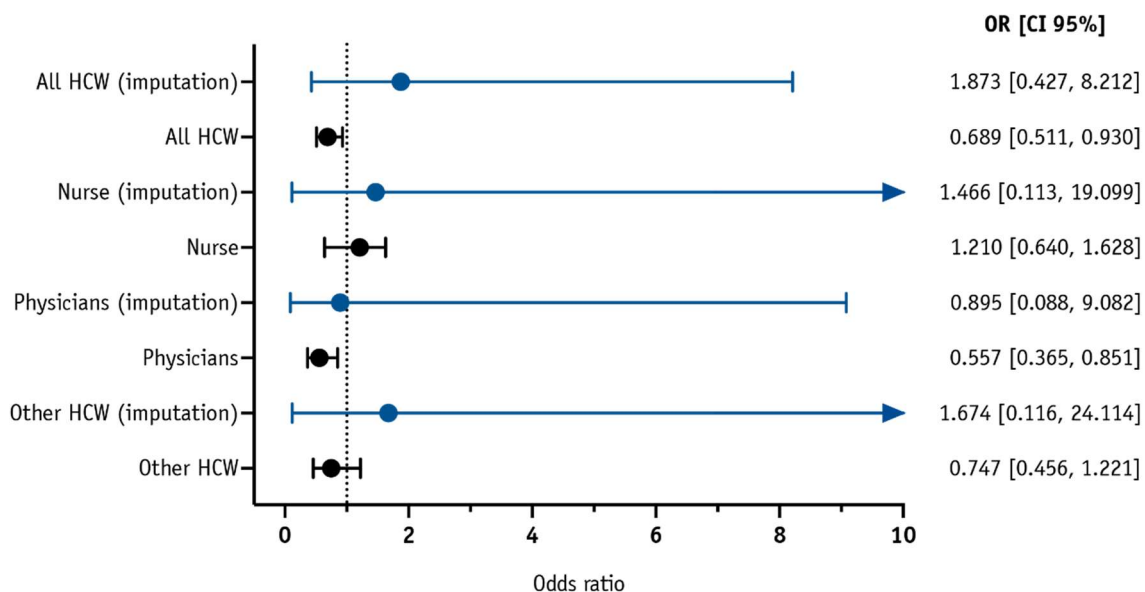
## Supplementary Material

# SARS-CoV-2 Infection Among Healthcare Workers in Tijuana, Mexico: A Cross-Sectional Study

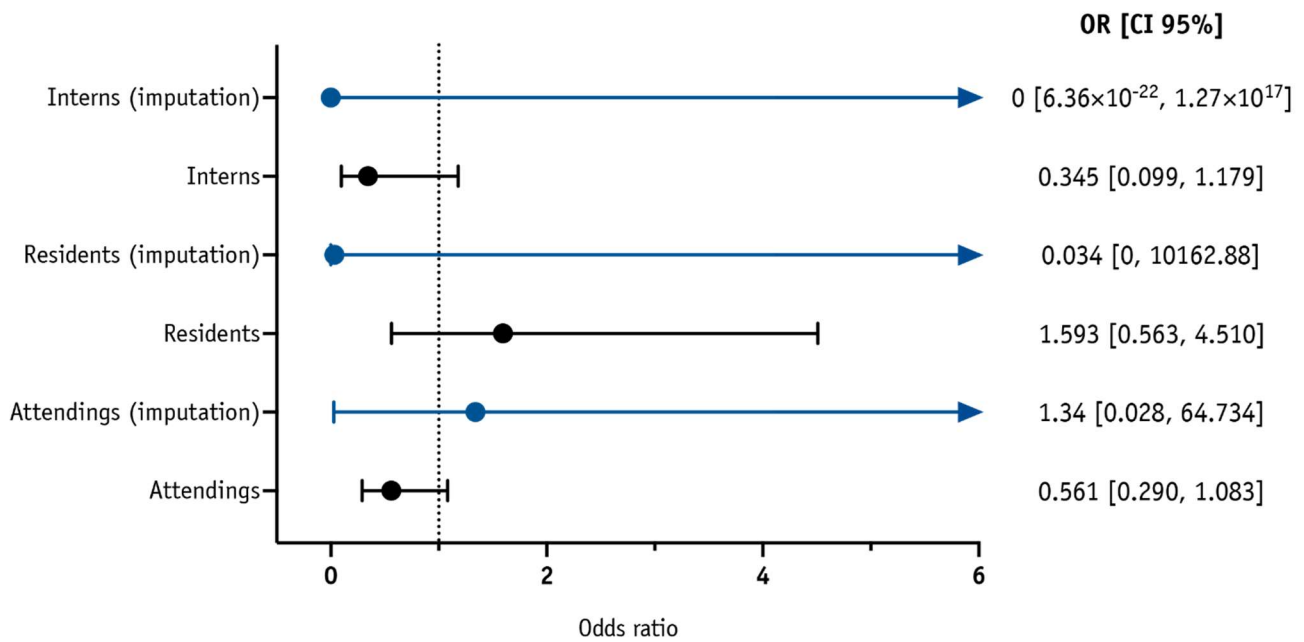
Supplementary Table 1. Demographic Characteristics of Study Subjects.

Variables	Analysis 1			Analysis 2 (pooled multiple imputation)		
	COVID-19 case n = 558	COVID-19 non-case n = 339	Total n = 897	COVID-19 case n = 3,263	COVID-19 non-case n = 2,993	Total n = 6,256
Gender, n (%)						
Male	326 (58.42)	167 (49.26)	493 (54.96)	1,775 (54.40)	1,415 (47.30)	3,190 (50.99)
Female	232 (41.58)	172 (50.74)	404 (45.04)	1,488 (45.60)	1,577 (52.70)	3,066 (49.01)
Age, years (standard deviation)						
Mean	47 (14)	41 (16)	45 (16)	41 (13)	37 (13)	39 (13)
Range	7-87	0-88	0-88	0-97	0-97	0-97
Age groups, n (%)						
0 to 5 years	0 (0.00)	13 (3.83)	13 (1.45)	6 (0.18)	32 (1.07)	38 (0.61)
6 to 15 years	4 (0.72)	6 (1.77)	10 (1.11)	16 (0.49)	29 (0.97)	45 (0.72)
16 to 39 years	170 (30.47)	142 (41.89)	312 (34.78)	1,518 (46.52)	1,760 (58.80)	3,278 (52.40)
40 to 59 years	283 (50.72)	139 (41.00)	422 (47.05)	1,461 (44.77)	1,049 (35.05)	2,510 (40.12)
>60 years	101 (18.10)	39 (11.50)	140 (15.61)	262 (8.03)	123 (4.11)	385 (6.15)
Healthcare workers, n (%)						
Yes	136 (24.37)	108 (31.86)	244 (27.20)	353 (10.82)	269 (8.99)	622 (9.94)
No	422 (75.63)	231 (68.14)	653 (72.80)	2,910 (89.18)	2,724 (91.01)	5,634 (90.06)
History of chronic disease, n (%)						
Yes	228 (40.86)	128 (37.76)	356 (39.69)	998 (30.59)	806 (26.93)	1,804 (28.84)
No	330 (59.14)	211 (62.24)	541 (60.31)	2,265 (69.41)	2,187 (73.07)	4,452 (71.16)

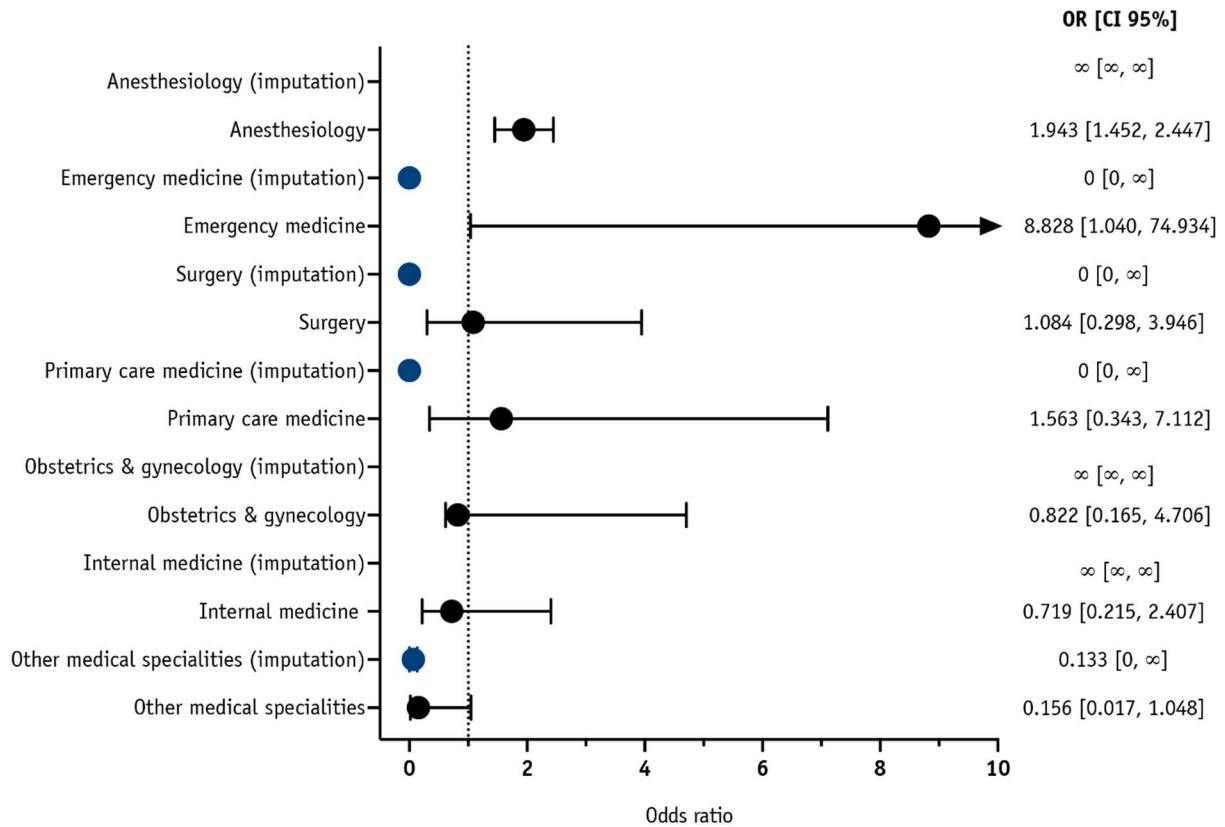
Supplementary Figure 1. Unadjusted Odds Ratios for COVID-19 According to Healthcare Worker Category



Supplementary Figure 2. Unadjusted Odds Ratios for COVID-19 According to Medical Hierarchy.



Supplementary Figure 3. Unadjusted Odds Ratios for COVID-19 by Medical Specialty.



Supplementary Table 2. Statistical Analysis Using Binomial Logistic Regression from Pooled Multiple Imputation Data

Category	P-value	Odds ratio (OR)	95%CI Lower bound	95%CI Higher bound
<b>Effect size of being a HCW for acquiring COVID-19 (GP as referent)</b>				
All hcw	0.404	1.873	0.427	8.212
Adjusted for sex	0.096	1.485	0.932	2.366
Adjusted for age	0.039	0.976	0.054	0.999
Adjusted for history	0.137	0.693	0.427	1.124
<b>Effect size for acquiring COVID-19 by HCW category (All HCW as referent)</b>				
Nurses	0.77	1.466	0.113	19.099
Adjusted for sex	0.233	1.801	0.684	4.743
Adjusted for age	0.316	0.98	0.942	1.019
Adjusted for history	0.094	0.513	0.235	1.119
Physicians	0.926	0.895	0.088	9.082
Adjusted for sex	0.171	1.687	0.798	3.564
Adjusted for age	0.198	0.977	0.942	1.012
Adjusted for history	0.801	1.11	0.492	2.507
Other hcw	0.705	1.674	0.116	24.114
Adjusted for sex	0.172	1.684	0.796	3.562
Adjusted for age	0.286	0.978	0.939	1.019
Adjusted for history	0.31	0.645	0.277	1.505
<b>Effect size for acquiring COVID-19 by HCW category (GP as referent)</b>				
Nurses	0.936	1.101	0.104	11.617
Adjusted for sex	0.153	1.894	0.788	4.554
Adjusted for age	0.309	0.981	0.944	1.018
Adjusted for history	0.144	0.572	0.271	1.21
Physicians	0.85	0.802	0.081	7.98
Adjusted for sex	0.169	1.662	0.806	3.429
Adjusted for age	0.19	0.976	0.941	1.012
Adjusted for history	0.661	1.193	0.542	2.628
Other hcw	0.644	1.848	0.136	25.059
Adjusted for sex	0.162	1.691	0.809	3.538
Adjusted for age	0.215	0.975	0.937	1.015
Adjusted for history	0.305	0.647	0.281	1.49
<b>Effect size for acquiring COVID-19 by medical hierarchy (physicians as referent)</b>				
Interns	0.54	0.000009	6.37E-22	1.27652E+11
Adjusted for sex	0.999	0.003	0	.
Adjusted for age	0.53	1.587	0.375	6.718
Adjusted for history	0.999	426.964	0	.
Residentes	0.6	0.034	0	10162.88
Adjusted for sex	0.982	1.027	0.107	9.87
Adjusted for age	0.708	1.081	0.719	1.624
Adjusted for history	0.899	1.177	0.094	14.802
Attendings	0.882	1.34	0.028	64.734
Adjusted for sex	0.354	1.751	0.535	5.733
Adjusted for age	0.161	0.951	0.887	1.02
Adjusted for history	0.477	1.612	0.432	6.024
<b>Effect size for acquiring COVID-19 by medical hierarchy (All HCW as referent)</b>				
Interns	0.54	0	0	1.27652E+11
Adjusted for sex	0.999	0.003	0	.
Adjusted for age	0.53	1.587	0.375	6.718
Adjusted for history	0.999	426.964	0	.
Residentes	0.6	0.034	0	10162.88
Adjusted for sex	0.982	1.027	0.107	9.87
Adjusted for age	0.708	1.081	0.719	1.624
Adjusted for history	0.899	1.177	0.094	14.802
Attendings	0.844	1.483	0.029	75.798
Adjusted for sex	0.362	1.748	0.525	5.822
Adjusted for age	0.155	0.951	0.887	1.019
Adjusted for history	0.519	1.544	0.413	5.777
<b>Effect size for acquiring COVID-19 by medical hierarchy (GP as referent)</b>				
Interns	0.54	0	0	1.27652E+11
Adjusted for sex	0.999	0.003	0	.
Adjusted for age	0.53	1.587	0.375	6.718
Adjusted for history	0.999	426.964	0	.
Residentes	0.6	0.034	0	10162.88
Adjusted for sex	0.982	1.027	0.107	9.87
Adjusted for age	0.708	1.081	0.719	1.624
Adjusted for history	0.899	1.177	0.094	14.802
Attendings	0.882	1.34	0.028	64.734
Adjusted for sex	0.354	1.751	0.535	5.733

Adjusted for age	0.161	0.951	0.887	1.02
Adjusted for history	0.477	1.612	0.432	6.024
<b>Effect size for acquiring COVID-19 by medical specialty (GP as referent)</b>				
Anesthesiology	0.993	.	.	.
Adjusted for sex	0.998	0.000	0.000	.
Adjusted for age	0.992	0.000	0.000	.
Adjusted for history	0.996	1.352E+93	0.000	.
Emergency	0.999	0.000	0.000	.
Adjusted for sex	0.999	572.527	0.000	.
Adjusted for age	0.755	1.054	0.758	1.464
Adjusted for history	-1375.951	28359749.810	0.000	.
Surgery	151148.918	0.000	.	0
Adjusted for sex	3356828.370	0.000	.	0
Adjusted for age	0.264	0.000	.	0
Adjusted for history	5703.153	0.000	.	0
Primary care	718318191158.345	0.000	.	0.000
Adjusted for sex	3.867	0.000	.	0.000
Adjusted for age	0.568	0.000	3.5796E+196	0.000
Adjusted for history	0.001	0.000	.	0.000
Ob-gyn	-7004735051268220	151148.918	0.000	.
Adjusted for sex	0.999	3356828.370	0.000	.
Adjusted for age	0.999	0.264	0.000	.
Adjusted for history	-11477835663185500	5703.153	0.000	.
Internal med	-7004735051268220	151148.918	0.000	.
Adjusted for sex	0.999	3356828.370	0.000	.
Adjusted for age	0.999	0.264	0.000	.
Adjusted for history	-11477835663185500	5703.153	0.000	.
Others	1.000	0.133	0.000	.
Adjusted for sex	0.657	1.875	0.116	30.192
Adjusted for age	0.494	0.949	0.818	1.102
Adjusted for history	1.000	5.740	0.000	.
<b>Effect size for acquiring COVID-19 by medical specialty (All HCW as referent)</b>				
Anesthesiology	The parameter covariance matrix cannot be calculated, SPSS ignores the statistics			
Adjusted for sex	The parameter covariance matrix cannot be calculated, SPSS ignores the statistics			
Adjusted for age	The parameter covariance matrix cannot be calculated, SPSS ignores the statistics			
Adjusted for history	The parameter covariance matrix cannot be calculated, SPSS ignores the statistics			
Emergency	1.000	0.000	0.000	.
Adjusted for sex	0.999	572.527	0.000	.
Adjusted for age	0.755	1.054	0.758	1.464
Adjusted for history	-1375.951	28359749.810	0.000	.
Surgery	1.000	5.538	0.000	.
Adjusted for sex	1.000	0.000	0.000	.
Adjusted for age	0.615	0.931	0.706	1.229
Adjusted for history	1.000	579.528	0.000	.
Primary care	0.999	718318191158.345	0.000	.
Adjusted for sex	1.000	3.867	0.000	.
Adjusted for age	0.999	0.568	0.000	3.57969836E+196
Adjusted for history	0.999	0.001	0.000	.
Ob-gyn	-7004735051268220	151148.918	0.000	.
Adjusted for sex	0.999	3356828.370	0.000	.
Adjusted for age	0.999	0.264	0.000	.
Adjusted for history	-11477835663185500	5703.153	0.000	.
Internal med	1.000	0.000	0.000	.
Adjusted for sex	0.735	1.435	0.177	11.610
Adjusted for age	0.925	1.005	0.904	1.117
Adjusted for history	1.000	2025.182	0.000	.
Others	1.000	0.133	0.000	.
Adjusted for sex	0.657	1.875	0.116	30.192
Adjusted for age	0.494	0.949	0.818	1.102
Adjusted for history	1.000	5.740	0.000	.
<b>Effect size for acquiring COVID-19 by medical specialty (physicians as referent)</b>				
Anesthesiology	The parameter covariance matrix cannot be calculated, SPSS ignores the statistics			
Adjusted for sex	The parameter covariance matrix cannot be calculated, SPSS ignores the statistics			
Adjusted for age	The parameter covariance matrix cannot be calculated, SPSS ignores the statistics			
Adjusted for history	The parameter covariance matrix cannot be calculated, SPSS ignores the statistics			
Emergency	0.998	0.000	0.000	.
Adjusted for sex	0.999	1115632.547	0.000	.
Adjusted for age	0.849	1.037	0.710	1.516
Adjusted for history	1.000	16995783.010	0.000	.
Surgery	1.000	5.538	0.000	.
Adjusted for sex	1.000	0.000	0.000	.
Adjusted for age	0.615	0.931	0.706	1.229
Adjusted for history	1.000	579.528	0.000	.

Primary care	0.999	718318191158.345	0.000	.
Adjusted for sex	1.000	3.867	0.000	.
Adjusted for age	0.999	0.568	0.000	3.57969836E+196
Adjusted for history	0.999	0.001	0.000	.
Ob-gyn	-7004735051268220	151148.918	0.000	.
Adjusted for sex	0.999	3356828.370	0.000	.
Adjusted for age	0.999	0.264	0.000	.
Adjusted for history	-11477835663185500	5703.153	0.000	.
Internal med	1.000	0.000	0.000	.
Adjusted for sex	0.735	1.435	0.177	11.610
Adjusted for age	0.925	1.005	0.904	1.117
Adjusted for history	1.000	2025.182	0.000	.
Others	1.000	0.133	0.000	.
Adjusted for sex	0.657	1.875	0.116	30.192
Adjusted for age	0.494	0.949	0.818	1.102
Adjusted for history	1.000	5.740	0.000	.

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