

Supplementary Material

Table S1. Demographic, clinical, and virological features of the study population

	HCWs undergoing at least one BNT162b2 dose (n=6800)	HCWs resulting SARS-CoV-2 positive after at least one BNT162b2 dose (n=55)	SARS-CoV-2 positive unvaccinated controls (n=110)
Age, years	52 (29-59)	49 (31-56)	49 (31-56)
Male, n	2659 (39.1%)	12 (21.8%)	24 (21.8%)
Caucasian, n	6144 (90.3%)	51 (92.7%)	102 (92.7%)
Comorbidities/subject, n	Not available	0 (0-1)	0 (0-1)
SARS-CoV-2 positive contacts, n	Not available		Not available
Previous or concomitant positive household		25 (45.4%)	
Previous or concomitant positive colleague		7 (12.7%)	
No previous nor concomitant known positive contact		23 (41.8%)	
Health mansion, n	Not available		NA
Doctor		9 (16.4%) ¹	
Nurse		22 (40.0%) ¹	
Care provider		14 (25.4%) ¹	
Administrative		4 (7.3%)	
Other ^o		6 (10.9%) ¹	
Asymptomatic infections, n	NA	18 (32.7%)	10 (9.1%)
Signs and Symptoms, n*	NA		
Fever		10 (18.2%)	57 (51.8%)
Cough		19 (34.5%)	31 (28.2%)
Rhinorrhea		10 (18.2%)	14 (12.7%)
Pharyngitis		7 (12.7%)	16 (14.5%)
Dyspnea		2 (3.6%)	15 (13.6%)
O/G dysfunction		7 (12.7%)	59 (53.6%)
Headache		17 (30.9%)	42 (38.2%)
Arthromyalgia		10 (18.2%)	51 (46.4%)
Asthenia/Malaise		9 (16.4%)	53 (48.2%)
Nausea/Vomiting		4 (7.2%)	11 (10.0%)
Diarrhea		3 (5.4%)	15 (13.6%)
Number of signs and symptoms, n*	NA	3 (2-3)	4 (3-5)
Severe COVID-19, n	NA		
Hospitalization		1 (1.8%)	5 (4.5%)
Oxygen support		1 (1.8%)	5 (4.5%)
Sequelae		4 (7.2%)	20 (18.2%)
Duration of symptoms, days*	NA	8 (5-17)	11 (7-20)
Time since COVID-19 onset and swab collection, days*	NA	2 (1-3)	3 (2-6)
PCR Cycle threshold	NA	29.7 (22.1-34.5)	22.5 (19.5-30.5)

*In symptomatic subjects only. ¹The overall 51 HCWs attending clinical wards resulted from 40 single positive cases within their respective wards, 1 cluster of 4 cases within the same ward (emergency department), 1 cluster of 3 cases (orthopedics and traumatology unit) and 2 cluster of 2 cases (dietology unit and COVID-19 unit) from three out of the four included hospitals. ^oOther included biologist/lab personnel, social assistant, dietitian, technician. Legend: HCWs, health care workers; NA, not applicable; O/G dysfunction, olfactory and/or gustatory dysfunction; COVID-19, novel coronavirus disease 2019; PCR, polymerase chain reaction.

Table S2. Comparison of demographic, clinical and virological features of post-first dose SARS-CoV-2-positive healthcare workers and corresponding age- and sex-matched unvaccinated controls

Parameter	Post-first dose HCWs (n=20)	Unvaccinated controls (n=40)	P
Age, years	44 (26-54)	44 (26-54)	1.00
Male, n	5 (25.0%)	10 (25.0%)	1.00
Caucasian, n	18 (90.0%)	37 (92.5%)	0.999
Comorbidities, n	0 (0-0)	0 (0-1)	0.932
Asymptomatic infections, n	5 (25.0%)	7 (17.5%)	0.511
Signs and Symptoms, n*			
Fever	6 (40.0%)	17 (51.5%)	0.668
Cough	10 (66.7%)	13 (39.4%)	0.149
Rhinorrhea	3 (20.0%)	6 (18.2%)	0.803
Pharyngitis	2 (13.3%)	5 (15.1%)	0.783
Dyspnea	1 (6.7%)	3 (9.1%)	0.779
O/G dysfunction	4 (26.7%)	17 (51.5%)	0.195
Headache	6 (40.0%)	13 (39.4%)	0.781
Arthromyalgia	7 (46.7%)	15 (45.4%)	0.814
Asthenia/Malaise	5 (33.3%)	15 (45.4%)	0.636
Nausea/Vomiting	2 (13.3%)	3 (9.1%)	0.949
Diarrhea	1 (6.7%)	4 (12.1%)	0.949
Number of signs and symptoms, n*	4 (2-5)	5 (2-6)	0.694
Severe COVID-19, n			
Hospitalization	1 (5.0%)	2 (5.0%)	1.00
Oxygen support	1 (5.0%)	2 (5.0%)	1.00
Sequelae	1 (5.0%)	5 (12.5%)	0.181
Duration of symptoms, days*	7 (3-18)	7 (5-22)	0.811
Time since COVID-19 onset and swab collection, days*	2 (2-3)	2 (1-3)	0.738
PCR Cycle threshold	24.4 (20.9-30.5)	22.0 (18.6-29.9)	0.678

*In symptomatic subjects only. Legend: HCWs, health care workers; O/G dysfunction, olfactory and/or gustatory dysfunction; COVID-19, novel coronavirus disease 2019; PCR, polymerase chain reaction.