Additional Table 1: Influenza vaccination coverage rate among HCWs during the different flu seasons (n=304)

	Availability of vaccine at work	Influenza	Place of tak	ing vaccine ***
Flu seasons	place *	vaccination uptake*	Work place	Pharmacy /Private center
riu scasolis	n (%)	n (%)	n (%)	n (%)
2019-2020	79 (27.9%)**	48 (16.9%)**	32 (66.7%)	16 (33.3%)
2020-2021	234 (82.7%)**	82 (28.9%)**	76 (92.7)	6 (7.3%)
2021-2022	257 (90.8%)**	91 (32.2%)**	87 (95.6%)	4 (4.4%)
2022-2023	288 (94.7%)	124 (40.8%)	123 (99.2%)	1 (0.8%)

\* As reported by study participants; \*\*Twenty-one participants were excluded from total (experience was less than one year)\*\*\* percentages were calculated from total number of HCWs took influenza vaccine at that flu season

Additional Table 2: Score of attitudes toward influenza vaccine in relation to sociodemographic characteristics

Variables	Levels	Mean	±SD	P-value	
	20-29	39.38	4.99	0.057	
A	30-39	38.09	5.70		
Age	40-49	37.15	5.52		
	≥50	37.90	5.85		
Sex	Male	38.35	5.09	- 0.359	
Sex	Female	38.91	5.58		
Residence	Urban	38.69	5.56	0 977	
Residence	Rural	38.59	5.13	0.877	
Marital	Married	38.13	5.15	0.005*	
	single	40.09	5.35	0.005*	
Smalring	Yes	37.86	4.75	0.405	
Smoking	No	38.73	5.42		
Having chronic	Yes	39.09	6.17	0.695	
diseases	No	38.71	5.34		
	Illiterate	36.71	5.1		
	Read &write	34.17	4.54		
Education	Primary Or preparatory	30.8	4.87	<0.001*	
Luucation	Secondary	35.75	5.12		
	University	39.61	4.86		
	Postgraduate	40.98	5.56		
	Physicians	40.10	5.39		
	Nurse	39.25	5.48		
Occupation	Administrators	38.32	5.29	<0.001*	
	Security employee	36.0	2.96	-	
	Workers	35.61	5.29		
	Less than one year	39.71	5.43		
Experience duration	One to five years	37.90	5.17	0.014*	
	More than five years	39.72	5.48		
I	1000-2000	36.31	4.15		
Income monthly	2000-5000	39.27	5.57	<0.001*	
(equivalent to dollar)	>5000	40.64	3.75		

\*Significant at p<0.05

Additional Table 3: Effect of COVID-19 disease and vaccination on attitude toward influenza vaccination

Variables	Levels	Mean	±SD	<b>P-value</b>
Having COVID-19 disease	Yes	39.63	5.62	<0.001*
Having COVID-19 disease	No	37.46	4.78	
Receiving COVID-19 vaccines	Yes	38.58	5.28	0.823
Receiving COVID-19 Vaccilles	No	38.72	5.44	0.825

\*Significant at p<0.05

## Additional Table 4: Reported perceived facilitators and barriers for the flu vaccination during the last flu season 2022-2023

	Yes	No	May be
A- Reported perceived facilitators among those who uptake th	e flu vaccines (n	=124)	
Social			
The flu vaccine would protect me and my family	116 (93.5%)	3 (2.4%)	5 (4%)
The flu vaccine would protect my colleagues & patients	110 (88.7%)	7 (5.6%)	7 (5.6%)
Management and economic		1	
The flu vaccine is available at my work-place	107 (86.3)	8 (6.5%)	9 (7.3%)
The flu vaccine is available at a low price or for free	102 (82.3%)	11 (8.9%)	11 (8.9%)
Personal		1	
The flu vaccine helps me to avoid co-infection with COVID-19	73 (58.9%)	22 (17.7%)	29 (23.4%)
I am an elderly	10 (8.1%)	113 (91.1)	1 (0.8%)
I have co-morbidity (HTN-DM-COPD)	18 (5.9)	100 (80.6%)	6 (4.8%)
B- Reported perceived barriers among those who did not received	ive the flu vacci	nes (n=180)	
Management and economic			
The vaccine is not available	52 (28.9%)	109 (60.6%)	19 (10.5%)
The vaccine is not mandatory	99 (55%)	60 (33.3%)	21 (11.7)
I think that the influenza vaccine is costly	51 (28.3%)	98 (54.5%)	31 (17.2%)
Unsuitable place for the vaccination	52 (28.9%)	86 (47.8%)	42 (23.3%)
Incomplete information regarding the flu vaccine	58 (32.2%)	112 (62.2%)	10 (5.5%)
Personal (including: perceived susceptibility and severity of in	fection, perceive	ed benefit-risk)	
I think that the influenza vaccine isn't effective	51 (28.2%)	73 (40.6%)	56 (31.1%)
I have concerns about the side effects of the vaccine	93 (51.7%)	44 (24.5)	43 (29.9)
Limited available time because to being busy	84 (46.7%)	50 (27.8%)	46 (25.6%)
I was not ill during the time of the vaccination	86 (47.8%)	50 (27.8%)	44 (24.4)
Seasonal influenza is a minor health problem, so no need for	72 (40.0%)	71 (39.5%)	37 (20.6%)
vaccination			
Having health conditions that may be contraindicated to	51 (28.3%)	95 (52.8%)	34 (18.9%)
vaccination			
Although I received the flu vaccine before, I had the flu	71 (39.4%)	82 (45.6%)	27 (15.0%)
Contracting the influenza will provide immunity so no need for	73 (40.6%)	65 (36.1%)	42 (23.3%)
vaccination			