

Table S1. Prevalence of vaccination stratified by sex, age, year of study, place of residence, smoking cigarette, status health, taking medication in Public health

Influenza vaccination	No	Yes		
Total	45 (51.1%)	43 (48.9%)		
		Once	Irregularly*	Regularly**
Sex				
Female	44 (55.0%)	7 (8.8%)	29 (36.3%)	0 (0.0%)
Male	1 (12.5%)	3 (37.5%)	3 (37.5%)	1 (12.5%)
Age				
18-20y	11 (36.7%)	4 (13.3%)	15 (50.0%)	0 (0.0%)
21-22y	17 (54.8%)	5 (15.1%)	8 (25.8%)	1 (3.2%)
23-24y	17 (65.4%)	1 (3.8%)	8 (30.8%)	0 (0.0%)
≥25y	0 (0.0%)	0 (0.0%)	1 (100.0%)	0 (0.0%)
Year of study				
1st	8 (26.7%)	5 (16.7%)	17 (56.7%)	0 (0.0%)
2nd	17 (63.0%)	3 (11.1%)	6 (22.2%)	1 (3.7%)
3rd	20 (64.5%)	2 (6.5%)	9 (29.0%)	0 (0.0%)
4th	NA	NA	NA	NA
5th	NA	NA	NA	NA
Place of residence				
rural	13 (44.8%)	2 (6.9%)	13 (44.8%)	1 (3.4%)
city of less than 10,000 r	6 (50.0%)	0 (0.0%)	6 (50.0%)	0 (0.0%)
city from 10,000 to 100,000 r	13 (54.2%)	0 (0.0%)	11 (45.8%)	0 (0.0%)
city above 100,000 r	13 (56.5%)	8 (34.8%)	2 (8.7%)	0 (0.0%)
Cigarette smoking				
current smoker	3 (37.5%)	1 (12.5%)	4 (50.0%)	0 (0.0%)
never smoker	28 (50.9%)	6 (10.9%)	20 (36.4%)	1 (1.8%)
ex-smoker	14 (56.0%)	3 (12.0%)	8 (32.0%)	0 (0.0%)
Status health –chronic disease				
No, any	34 (49.3%)	8 (11.6%)	26 (37.7%)	1 (1.4%)
Yes (total)	11 (57.9%)	2 (10.5%)	6 (31.6%)	0 (0.0%)
Asthma	0 (0.0%)	1 (100.0%)	0 (0.0%)	0 (0.0%)
Allergy	1 (100.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)
Immune disorders	4 (66.7%)	0 (0.0%)	2 (33.3%)	0 (0.0%)
Thyroid disease	3 (60.0%)	1 (20.0%)	1 (20.0%)	0 (0.0%)
Diabetes	1 (100.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)
Others	9 (64.3%)	1 (7.1%)	4 (28.6%)	0 (0.0%)
Taking medication for chronic disease				
No	36 (50.0%)	8 (11.1%)	27 (37.5%)	1 (1.4%)
Yes	9 (56.3%)	2 (12.5%)	5 (31.3%)	0 (0.0%)

* within last 3 years, ** minimum from 3 years, r - residents, NA - Not Applicable

Table S2. Prevalence of vaccination stratified by sex, age, year of study, place of residence, smoking cigarette, status health, taking medication in Pharmacy

Influenza vaccination	No	Yes		
Total	301 (69%)	135 (31%)		
		Once	Irregularly*	Regularly**
Sex				
Female	265 (72.6%)	44 (12.1%)	51 (14.0%)	5 (1.4%)
Male	36 (50.7%)	11 (15.5%)	18 (25.4%)	6(8.5%)
Age				
18-20y	84 (61.8%)	28 (20.6%)	22 (16.2%)	2 (1.5%)
21-22y	123 (69.1%)	19 (10.7%)	31 (17.4%)	5 (2.8%)
23-24y	84 (79.2%)	7 (6.6%)	13 (12.3%)	2 (1.9%)
≥25y	10 (62.5%)	1 (6.3%)	3 (18.8%)	2 (12.5%)
Year of study				
1st	71 (60.2%)	25 (21.2%)	20 (16.9%)	2 (1.7%)
2nd	68 (64.2%)	20 (18.9%)	14 (13.2%)	4 (3.8%)
3rd	63 (72.4%)	4 (4.6%)	18 (20.7%)	2 (2.3%)
4th	58 (81.7%)	3 (4.2%)	10 (14.1%)	0 (0.0%)
5th	41 (75.9%)	3 (5.6%)	7 (13.0%)	3 (5.6%)
Place of residence				
rural	91 (77.1%)	9 (7.6%)	18 (15.3%)	0 (0.0%)
city of less than 10,000 r	36 (70.6%)	8 (15.7%)	7 (13.7%)	0 (0.0%)
city from 10,000 to 100,000 r	13 (56.5%)	4 (17.4%)	4 (17.4%)	2 (8.7%)
city above 100,000 r	161 (66.0%)	34 (13.9%)	40 (16.4%)	9 (3.7%)
Cigarette smoking				
current smoker	19 (47.5%)	6 (15.0%)	15 (37.5%)	0 (0.0%)
never smoker	254 (72.0%)	43 (12.2%)	49 (13.9%)	7 (2.0%)
ex-smoker	28 (65.1%)	6 (14.0%)	5 (11.6%)	4 (9.3%)
Status health –chronic disease				
No, any	252 (68.7%)	51 (13.9%)	55 (15.0%)	9 (2.5%)
Yes (total)	49 (71.0%)	4 (5.8%)	14 (20.3%)	2 (2.9%)
Asthma	12 (63.2%)	2 (10.5%)	5 (26.3%)	0 (0.0%)
Allergy	5 (83.3%)	0 (0.0%)	1 (16.7%)	0 (0.0%)
Immune disorders	3 (42.9%)	2 (28.6%)	2 (28.6%)	0 (0.0%)
Thyroid disease	2 (22.2%)	0 (0.0%)	0 (0.0%)	7 (77.8%)
Diabetes	5 (83.3%)	0 (0.0%)	1 (16.7%)	0 (0.0%)
Others	38 (80.9%)	0 (0.0%)	7 (14.9%)	2 (4.3%)
Taking medication for chronic disease				
No	249 (68.6%)	48 (13.2%)	57 (15.7%)	9 (2.5%)
Yes	52 (71.2%)	7 (9.6%)	12 (16.4%)	2 (2.7%)

* within last 3 years, ** minimum from 3 years, r - residents, NA - Not Applicable

Table S3. Prevalence of vaccination stratified by sex, age, year of study, place of residence, smoking cigarette, status health, taking medication in Nursing

Influenza vaccination	No	Yes		
Total	309 (69.3%)	137 (30.7%)		
		Once	Irregularly*	Regularly**
Sex				
Female	297 (70.9%)	82 (19.6%)	35 (8.4%)	5 (1.2%)
Male	12 (44.4%)	8 (29.6%)	6 (22.2%)	1 (3.7%)
Age				
18-20y	108 (64.7%)	42 (25.1%)	16 (9.6%)	1 (0.6%)
21-22y	163 (74.1%)	42 (19.1%)	13 (5.9%)	2 (0.9%)
23-24y	20 (52.6%)	5 (13.2%)	11 (28.9%)	2 (5.3%)
≥25y	18 (85.7%)	1 (4.8%)	1 (4.8%)	1 (4.8%)
Year of study				
1st	113 (62.1%)	46 (25.3%)	21 (11.5%)	2 (1.1%)
2nd	100 (66.7%)	36 (24.0%)	10 (6.7%)	4 (2.7%)
3rd	96 (84.2%)	8 (7.0%)	10 (8.8%)	0 (0.0%)
4th	NA	NA	NA	NA
5th	NA	NA	NA	NA
Place of residence				
rural	122 (76.7%)	21 (13.2%)	14 (8.8%)	2 (1.3%)
city of less than 10,000 r	14 (51.9%)	13 (48.1%)	0 (0.0%)	0 (0.0%)
city from 10,000 to 100,000 r	74 (65.5%)	30 (26.5%)	9 (8.0%)	0 (0.0%)
city above 100,000 r	99 (67.3%)	26 (17.7%)	18 (12.2%)	4 (2.7%)
Cigarette smoking				
current smoker	43 (76.8%)	6 (10.7%)	4 (7.1%)	3 (5.4%)
never smoker	228 (71.7%)	67 (21.1%)	21 (6.6%)	2 (0.6%)
ex-smoker	38 (52.8%)	17 (23.6%)	16 (22.2%)	1 (1.4%)
Status health –chronic disease				
No, any	251 (70.1%)	74 (20.7%)	32 (8.9%)	1 (0.3%)
Yes (total)	58 (65.9%)	16 (18.2%)	9 (10.2%)	5 (5.7%)
Asthma	7 (53.8%)	0 (0.0%)	4 (30.8%)	2 (15.4%)
Allergy	6 (75.0%)	2 (25.0%)	0 (0.0%)	0 (0.0%)
Immune disorders	4 (36.4%)	4 (36.4%)	2 (18.2%)	1 (9.1%)
Thyroid disease	12 (66.7%)	3 (16.7%)	1 (5.6%)	2 (11.1%)
Diabetes	1 (50.0%)	0 (0.0%)	1 (50.0%)	0 (0.0%)
Others	40 (68.3%)	8 (15.4%)	2 (3.8%)	2 (3.8%)
Taking medication for chronic disease				
No	248 (69.1%)	76 (21.2%)	33 (9.2%)	2 (0.6%)
Yes	61 (70.1%)	14 (16.1%)	8 (9.2%)	4 (4.6%)

* within last 3 years, ** minimum from 3 years, r - residents, NA - Not Applicable

Table S4. Prevalence of vaccination stratified by sex, age, year of study, place of residence, smoking cigarette, status health, taking medication in Midwifery

Influenza vaccination	No	Yes		
Total	125 (74.9%)	42 (25.1%)		
		Once	Irregularly*	Regularly**
Sex				
Female	125 (74.9%)	20 (12.0%)	18 (10.8%)	4 (2.4%)
Male	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)
Age				
18-20y	41 (65.1%)	11 (17.5%)	10 (15.9%)	1 (1.6%)
21-22y	72 (81.8%)	9 (10.2%)	5 (5.7%)	2 (2.3%)
23-24y	8 (72.7%)	0 (0.0%)	2 (18.2%)	1 (9.1%)
≥25y	4 (80.0%)	0 (0.0%)	1 (20.0%)	0 (0.0%)
Year of study				
1st	33 (63.5%)	8 (15.4%)	9 (17.3%)	2 (3.8%)
2nd	46 (76.7%)	12 (20.0%)	2 (3.3%)	0 (0.0%)
3rd	46 (83.6%)	0 (0.0%)	7 (12.7%)	2 (3.6%)
4th	NA	NA	NA	NA
5th	NA	NA	NA	NA
Place of residence				
rural	42 (75.0%)	5 (8.9%)	7 (12.5%)	2 (3.6%)
city of less than 10,000 r	9 (69.2%)	3 (23.1%)	1 (7.7%)	0 (0.0%)
city from 10,000 to 100,000 r	34 (77.3%)	5 (11.4%)	4 (9.1%)	1 (2.3%)
city above 100,000 r	40 (74.1%)	7 (13.0%)	6 (11.1%)	1 (1.9%)
Cigarette smoking				
current smoker	8 (66.7%)	1 (8.3%)	1 (8.3%)	2 (16.7%)
never smoker	90 (73.8%)	15 (12.3%)	15 (12.3%)	2 (1.6%)
ex-smoker	27 (81.8%)	4 (12.1%)	2 (6.1%)	0 (0.0%)
Status health –chronic disease				
No, any	95 (72.0%)	17 (12.9%)	16 (12.1%)	4 (3.0%)
Yes (total)	30 (85.7%)	3 (8.6%)	2 (5.7%)	0 (0.0%)
Asthma	3 (100.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)
Allergy	3 (75.0%)	1 (25.0%)	0 (0.0%)	0 (0.0%)
Immune disorders	1 (50.0%)	0 (0.0%)	1 (50.0%)	0 (0.0%)
Thyroid disease	8 (80.0%)	1 (10.0%)	1 (10.0%)	0 (0.0%)
Diabetes	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)
Others	22 (84.6%)	2 (7.7%)	2 (7.7%)	0 (0.0%)
Taking medication for chronic disease				
No	101 (72.7%)	18 (2.9%)	16 (11.5%)	4 (2.9%)
Yes	24 (85.7%)	2 (7.1%)	2 (7.1%)	0 (0.0%)

* within last 3 years, ** minimum from 3 years, r - residents, NA - Not Applicable

Table S5. Knowledge about influenza and common cold among unvaccinated and vaccinated students.

Self-choose answer	Major							
	Nursing		Midwifery		Pharmacy		Public health	
	vaccinated	unvaccinated	vaccinated	unvaccinated	vaccinated	unvaccinated	vaccinated	unvaccinated
Number of correct answers								
0-1 correct answers	93 (67.9%)	140 (53.3%)	24 (57.2%)	42 (33.6%)	80 (59.2%)	125 (41.5%)	28 (69.8%)	17 (37.7%)
2-3 correct answers	44 (32.1%)	169 (46.7%)	18 (42.8%)	83 (66.4%)	55 (40.8%)	176 (58.5%)	13 (30.2%)	28 (62.3%)
Number of wrong answers								
0-1-2 wrong answers	137 (100%)	308 (99,67%)	42 (100%)	125 (100%)	133 (98.5%)	293 (97.3%)	43(100%)	45 (100%)
3-4 wrong answers	0 (0.0%)	1 (0.3%)	0 (0.0%)	0 (0.0%)	2 (1.5%)	8 (2.7%)	0 (0.0%)	0 (0.0%)