

Table S1. The survey questionnaire

Questions	Answers
Why did you decided to get vaccinated at the pharmacy	
1. The pharmacy was the only vaccination site available to me when I wanted to	<ul style="list-style-type: none"> • Yes • No • I have no opinion
2. I have problems with access to my GP	<ul style="list-style-type: none"> • Yes • No • I have no opinion
3. The opening hours of the pharmacy are fine for me	<ul style="list-style-type: none"> • Yes • No • I have no opinion
4. The pharmacy is easily accessible to me (e.g. proximity to home / work, parking, public transport connection)	<ul style="list-style-type: none"> • Yes • No • I have no opinion
5. I have already good experiences with the pharmacy service and I trust the pharmacists	<ul style="list-style-type: none"> • Yes • No • I have no opinion
Different vaccination aspects	
6. How did you arrange the vaccination at the pharmacy:	<ul style="list-style-type: none"> • I registered electronically via e-registration, patient gov.pl • I used the 24/7 helpline 989 • in person during a visit to the pharmacy or phone
7. I am satisfied with the interview before the COVID-19 vaccination at the pharmacy.	<ul style="list-style-type: none"> • Yes • No • I have no opinion
8. I am satisfied with the information I have received from the pharmacy prior to the vaccination	<ul style="list-style-type: none"> • Yes • No • I have no opinion
9. I am satisfied with the technique of vaccination in the pharmacy	<ul style="list-style-type: none"> • Yes • No

	<ul style="list-style-type: none"> • I have no opinion
10. I am satisfied with the premises that have been organized in the pharmacy for vaccination	<ul style="list-style-type: none"> • Yes • No • I have no opinion
11. I am satisfied with the post-vaccination care in the pharmacy	<ul style="list-style-type: none"> • Yes • No • I have no opinion

Summary of pharmacist-administrated vaccination

12. I felt safe throughout the vaccination procedure at the pharmacy	<ul style="list-style-type: none"> • Yes • No • I have no opinion
13. I believe pharmacists are competent to administer the vaccine	<ul style="list-style-type: none"> • Yes • No • I have no opinion
14. I am glad that I got vaccinated against COVID at the pharmacy	<ul style="list-style-type: none"> • Yes • No • I have no opinion
15. I would come to the pharmacy for another vaccination (not only against COVID-19)	<ul style="list-style-type: none"> • Yes • No • I have no opinion

Pharmaceutical care

16. What other services do you want to be available at the pharmacy?	<ul style="list-style-type: none"> • Yes • No
<ol style="list-style-type: none"> 1. Ability to control blood pressure 2. Ability to control glucose levels 3. Ability to measure weight and height and calculate BMI 	

<p>4. Possibility of advice from a pharmacist about specialized diets, e.g. slimming diets, lowering cholesterol, diabetic diets, diets for stomach diseases, etc.</p> <p>5. Training sessions on the operation of medical equipment such as insulin pens, glucometers and inhalers</p> <p>6. Advice and control of quitting smoking</p> <p>7. Possibility to continue ongoing prescriptions by pharmacists</p> <p>8. Monitoring of the course of therapy (well-being, occurrence of side effects) with newly introduced drugs</p>	
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Demographic data

17. Age	in years
18. Sex	<ul style="list-style-type: none"> • Woman • Man
19. Voivodeship	in years
20. Place of residence	<ul style="list-style-type: none"> • City with more than 100,000 inhabitants • City with less than 100,000 inhabitants • Village
21. Education	<ul style="list-style-type: none"> • Primary • Secondary vocational • Secondary general • Higher
22. What vaccine did you get?	<ul style="list-style-type: none"> • Pfizer-BioNTech • AstraZeneca • Moderna • Johnson & Johnson
23. Which dose of vaccine?	<ul style="list-style-type: none"> • 1st • 2nd • 3rd

Table S2. The reasons for getting vaccinated against COVID-19 at a pharmacy in relation to basic characteristics of participants.

	The pharmacy was the only vaccination site available				Problems with access to my clinic			The opening hours of the pharmacy are fine			The pharmacy is easily accessible			I already have good experiences with the pharmacy service		
	Total	Yes	<i>p</i> -value	OR 95%CI	Yes	<i>p</i> -value	OR 95%CI	Yes	<i>p</i> -value	OR 95%CI	Yes	<i>p</i> -value	OR 95%CI	Yes	<i>p</i> -value	OR 95%CI
Sex																
Female	226	96 (42.48%)	0.733	-	63 (27.88%)	0.147	-	216 (95.58%)	0.708*	-	215 (95.13%)	0.372*	-	170 (75.22%)	0.855	-
Male	172	76 (44.19 %)			37 (21.51%)			163 (94.77%)			160 (93.02%)			128 (74.42%)		
Age																
G1	171	60 (35.09%)		ref.	39 (22.81%)			164 (95.91%)			168 (98.25%)		6.22 (1.72-22.56)	112 (65.5%)		ref.
G2	120	51 (42.5%)	0.001	1.37 (0.85-2.21)	33 (27.5%)	0.634	-	113 (94.17%)	0.789	-	108 (90%)	0.008	ref.	93 (77.5%)	0.0002	1.81 (1.06-3.09)
G3	107	61 (57.01%)		2.45 (1.49-4.02)	28 (26.17%)			102 (95.63%)			99 (92.52%)		1.37 (0.54-3.5)	93 (86.92%)		3.5 (1.84-6.67)
Place of residence																
city above 100.000	206	80 (39.02%)			49 (23.9%)			197 (96.1%)			192 (93.66%)		2.46 (0.93-6.54)	144 (70.24%)		1.04 (0.53-2.05)
city of less than 100.000	143	64 (44.76%)	0.109	-	35 (24.48%)	0.434	-	135 (94.41%)	0.688	-	140 (97.9%)	0.006	7.78 (1.93-31.41)	119 (83.22%)	0.015	2.19 (1.03-4.63)
rural	49	27 (55.1%)			16 (32.65%)			46 (93.88%)			42 (85.71%)		ref.	34 (69.39%)		ref.
Education																
Higher Secondary general	162	50 (30.86%)		ref.	36 (22.22%)			153 (94.44%)			153 (94.44%)			118 (72.84%)		
Secondary vocational	162	73 (45.06%)	0.000	1.84 (1.16-2.89)	43 (26.54%)	0.675	-	155 (95.68%)	0.614	-	152 (93.83%)	0.339	-	121 (74.69%)	0.427	-
Primary	50	30 (60%)		3.36 (1.74-6.48)	15 (30%)			49 (98%)			49 (98%)			42 (84%)		
	24	19 (79.17%)		8.51 (3-24.08)	6 (25%)			22 (91.67%)			21 (87.5%)			17 (70.83%)		

Vaccine dose																
1st	30	19 (63.33%)			12 (40%)			26 (86.67%)		ref.	27 (90%)	1.38 (0.34-5.65)	24 (80%)			
2nd	60	27 (45%)	0.058	-	13 (21.67%)	0.135	-	55 (91.67%)	0.017	1.69 (0.42-6.83)	52 (86.67%)	0.009	ref.	48 (80%)	0.444	-
3rd	308	126 (40.91%)			75 (24.35%)			298 (96.75%)		4.58 (1.34-15.63)	296 (96.1%)		3.79 (1.48-9.73)	226 (73.38%)		

age G1: ≤35 years, G2: between 36-50 and G3: ≥ 51; p-value*- test V-square, p-value** test Chi² with Yates correction

Table S3. Method of registration for vaccination in pharmacies in relation to basic characteristics of participants.

	How to register for vaccination at the pharmacy				<i>p</i> -value
	Total	by e-registration. patient gov.pl	24/7 helpline 989	personally or by phone at the pharmacy	
Sex					
Female	226	99 (43.81%)	29 (12.83%)	98 (43.36%)	0.283
Male	172	64 (37.21%)	30 (17.44%)	78 (45.35%)	
Age					
G1	171	104 (60.82%)	19 (11.11%)	48 (28.07%)	0.000
G2	120	45 (37.5%)	23 (19.17%)	52 (43.33%)	
G3	107	14 (13.08%)	17 (15.89%)	76 (71.03%)	
Place of residence					
city above 100.000	206	103 (50.24%)	26 (12.68%)	76 (37.07%)	0.002
city of less than 100.000	143	43 (30.07%)	22 (15.38%)	78 (54.55%)	
rural	49	17 (34.69%)	11 (22.45%)	21 (42.86%)	
Education					
Higher	162	90 (55.56%)	16 (9.88%)	56 (34.57%)	0.000
Secondary general	162	60 (37.04%)	29 (17.9%)	73 (45.06%)	
Secondary vocational	50	11 (22%)	5 (10%)	34 (68%)	
Primary	24	2 (8.33%)	9 (37.5%)	13 (54.17%)	
Vaccine dose					
1st	30	13 (43.33%)	7 (23.33%)	10 (33.33%)	0.292
2nd	60	19 (31.67%)	10 (16.67%)	31 (51.67%)	
3rd	308	131 (42.53%)	42 (13.64%)	135 (43.83%)	

age G1: ≤35 years, G2: between 36-50 and G3: ≥ 51

Table S4. Opinions regarding experiences of immunization against COVID-19 at the pharmacy in relation to basic characteristics of participants.

Experience with	the interview prior to vaccination				with the information received prior to vaccination				with the premises organized for the technique of vaccination				with the premises organized for vaccination				the post-vaccination care in the pharmacy			
	Total	Yes	<i>p</i> -value	OR 95%CI	Yes	<i>p</i> -value	OR 95%CI	Yes	<i>p</i> -value	OR 95%CI	Yes	<i>p</i> -value	OR 95%CI	Yes	<i>p</i> -value	OR 95%CI				
Sex																				
Female	226	208	0.503	-	216	0.0007	3.5	222	0.054*	3.06	214	0.766*	-	204	0.073	-				
		(92.04%)			(95.58%)		(1.63-7.54)	(98.23%)		(0.93-10.12)	(94.60%)			(90.27%)						
Male	172	155			148		ref.	163		ref.	164			145						
		(90.12%)			(86.05%)			(94.77%)			(95.35%)			(84.30%)						
Age																				
G1	171	152	0.290	-	158	0.843	-	170	0.032	10.1	163	0.942	-	162	0.0005	4.5				
		(88.89%)			(92.4%)			(1.19-85.1)		(95.32%)	(94.74%)			(2-10.08)						
G2	120	113			109			114		1.13	114			96 (80%)		ref.				
		(94.17%)			(90.83%)			(95%)		(0.35-3.61)	(95%)									
G3	107	98			97			101		ref.	101			91		1.42				
		(91.59%)			(90.65%)			(94.39%)			(94.39%)			(85.05%)		(0.71-2.85)				
Place of residence																				
city above 100.000	206	181	0.048	3.03	191	0.384	-	201	0.0008	7.01	195	0.542	-	189	0.004	2.88				
		(88.29%)			(93.17%)			(1.89-25.92)		(95.12%)	(92.2%)			(1.49-5.54)						
city of less than 100.000	143	137		1.16	129			140		6.51 (1.56-27.14)	137			115		ref.				
		(95.8%)			(90.21%)			(97.9%)			(95.8%)			(80.42%)						
rural	49	44 (89.8%)		(0.42-3.23)	43			43		ref.	45			44		2.14				
					(87.76%)			(87.76%)			(91.84%)			(89.8%)		(0.78-5.9)				
Education																				
Higher Secondary general	162	153	0.295	-	152	0.021	2.39	157	0.267	-	154	0.986	-	149	0.015	2.39				
		(94.44%)			(93.83%)		(1.09-5.22)	(96.91%)		(95.06%)	(91.98%)			(1.19-4.81)						
					140			154			154			134		ref.				
		(88.89%)			(86.42%)			(95.06%)			(95.06%)			(82.72%)						

Secondary vocational	50	45 (90%)		49 (98%)	7.7 (1.01-58.64)	50 (100%)		47 (94%)		42 (84%)	1.09 (0.46-2.59)		
				23 (95.83%)	3.61 (0.46-28.13)	24 (100%)		23 (95.83%)		24 (100%)	-		
Primary	24	21 (87.5%)											
Vaccine dose													
1st	30	24 (80%)		ref. 28 (93.33%)		25 (83.33%)		ref. 26 (86.67%)		ref. 26 (86.67%)			
2nd	60	48 (80%)	0.0001	ref. 54 (90%)	0.859	-	0.0001	11.8 (1.31-106.21)	52 (86.67%)	0.0002	ref. 55 (91.67%)	0.595	-
		291		4.28 (281		301 (97.73%)		4.28 (1.54-11.86)	300 (97.4%)		5.77 (1.63-20.45)	268 (87.01%)	
3rd	308	(94.48%)		1.92-9.52)									

age G1: ≤35 years, G2: between 36-50 and G3: ≥ 51; p-value*- test V-square, p-value** test Chi2 with Yates correction

Table S5. Opinions regarding satisfaction with immunization at the pharmacy in relation to basic characteristics of participants.

Satisfaction with	safe during the vaccination procedure				pharmacists are competent to vaccinate			satisfaction with vaccination in the pharmacy			further vaccinations at the pharmacy		
	Total	Yes	<i>p</i> -value	OR 95%CI	Yes	<i>p</i> -value	OR 95%CI	Yes	<i>p</i> -value	OR 95%CI	Yes	<i>p</i> -value	OR 95%CI
Sex													
Female	226	224 (99.12%)	0.451**	-	210 (92.92%)	0.036	2.03 (1.03-3.97)	214 (94.69%)	0.828*	-	202 (89.38%)	0.619	-
Male	172	168 (97.67%)			149 (86.83%)		Ref	163 (94.77%)			151 (87.79%)		
Age													
G1	171	170 (99.42%)	0.392	-	162 (94.74%)	0.031	2.77 (1.18-6.5)	163 (95.32%)	0.791	-	156 (91.23%)	0.282	-
G2	120	117 (97.5%)			104 (86.67%)		ref.	113 (94.17%)			106 (88.33%)		
G3	107	105 (98.13%)			93 (86.92%)		1.02 (0.47-2.21)	100 (93.46%)			91 (85.05%)		
Place of residence													
city above 100.000	206	200 (97.56%)	0.176	-	186 (90.735)	0.533	-	192 (93.66%)	0.114	-	182 (88.78%)	0.699	-
city of less than 100.000	143	143 (100%)			130 (90.91%)			139 (97.02%)			125 (87.41%)		
rural	49	48 (97.96%)			42 (85.71%)			44 (89.8%)			45 (91.84%)		
Education													
Higher	162	162 (100%)	0.031	-	148 (91.36%)	0.869	-	151 (93.21%)	0.823	-	152 (93.83%)	0.034	3.04 (0.87-10.61)
Secondary general	162	156 (96.3%)			146 (90.12%)			154 (95.06%)			136 (83.95%)		1.05 (0.33-3.31)
Secondary vocational	50	50 (100%)			44 (88%)			48 (96%)			45 (90%)		1.8 (0.44-7.42)

Primary	24	24 (100%)	-	21 (87.5%)		23 (95.83%)		20 (83.33%)	ref.
Vaccine dose									
1st	30	30 (100%)		24 (80%)		28 (93.33%)		25 (83.33%)	
2nd	60	59 (98.33%)	0.779	-	54 (90%)	0.142	-	54 (90%)	0.229
		303		281		294		278	
3rd	308	(98.38%)		(91.56%)		(95.45%)		(90.26%)	

Age G1: ≤35 years, G2: between 36-50 and G3: ≥ 51; p-value*- test V-square, p-value** test Chi² with Yates correction

Table S6. Attitude to the expansion of pharmacy services in relation to basic characteristics of participants.

Type of services		Sex		Age			Place of residence			Education			Vaccine dose			
		Female	Male	G1	G2	G3	city above 100.000	city of less than 100.000	Rural	Higher	Secondary general	Secondary vocational	Primary	1st	2nd	3rd
Blood pressure control	Total	210	163	159 131	119 110	95	189 167	138	46	154 141	152 124	45	22	29	52	292 255
	Yes	185 (88.1%)	138 (84.66 %)	(82.39%)	(92.44%)	82 (86.32%)	(88.36%)	118 (85.51%)	38 (82.61%)	(91.56%)	(81.58%)	39 (86.67%)	19 (86.36%)	23 (79.31%)	45 (86.54%)	(87.33%)
	p-value	0.334		0.052			0.528			0.087			0.481			
	OR 95%CI	-		-			-			-			-			
Glucose control	Total	210	162	160 108	117 108	95	190 164	136	46	154 137	153 128	44	21	29	52	291 255
	Yes	182 (86.67%)	140 (86.42 %)	132 (82.5%)	(91.45%)	83 (87.37%)	(86.32%)	120 (88.24%)	38 (82.61%)	(88.96%)	(83.66%)	39 (86.64%)	18 (85.71%)	23 (79.31%)	44 (84.62%)	(87.63%)
	p-value	0.945		0.094			0.620			0.563			0.414			
	OR 95%CI	-		-			-			-			-			
BMI calculation	Total	209	162	159 140	117 108	95	189 140	135	47	152 123	151 104	45	23	29	52	290 226
	Yes	164 (78.47%)	117 (72.22 %)	114 (71.7%)	97 (82.91%)	70 (73.68%)	(74.07%)	104 (77.04%)	37 (78.72%)	(80.92%)	(68.87%)	33 (73.33%)	21 (91.3%)	19 (65.52%)	36 (69.23%)	(77.93%)
	p-value	0.164		0.086			0.727			0.026			0.165			
	OR 95%CI	-		-			-			1.92 (1.13-3.26)			ref. (0.59-2.62)		4.74 (1.06-21.07)	
Advice about specialized diets	Total	207	162	160 109	114 109	95	189 143	134	46	152 117	150 103	45	22	29	53	287 219
	Yes	149 (71.98%)	127 (78.4 %)	(68.13%)	96 (84.21%)	71 (74.74%)	(75.66%)	103 (76.87%)	30 (65.22%)	(76.97%)	(68.67%)	36 (80%)	20 (90.91%)	15 (51.72%)	42 (79.25%)	(76.31%)
	p-value	0.159		0.010			0.270			0.070			0.011			
	OR 95%CI	-		ref. (1.36-4.56)			2.5 (0.78-2.45)			-			-		ref. (1.33-9.55)	
Use medical equipment	Total	202	160	155 122	113 109	94	182 146	134	46	147 123	149	45	21	29	53	280 230
	Yes	171 (84.65%)	117 (73.13 %)	(78.71%)	91 (80.53%)	75 (79.79%)	(80.22%)	104 (77.61%)	38 (82.61%)	(83.67%)	111 (74.5%)	35 (77.78%)	19 (90.48%)	21 (72.41%)	37 (69.81%)	(82.14%)
	p-value	0.007		0.934			0.732			0.138			0.076			
	OR 95%CI	2.03	ref.	-			-			-			-			
Control of quitting smoking	Total	197	157	154 108	111 108	89	181 108	129	44	145	145	44	20	29	51	274 164
	Yes	113 (57.36%)	93 (59.24 %)	85 (55.19%)	73 (65.77%)	48 (53.93%)	(59.67%)	71 (55.05%)	27 (61.36%)	87 (60%)	76 (52.41%)	27 (61.36%)	16 (80%)	13 (44.83%)	29 (56.86%)	(59.85%)
	p-value	0.722		0.146			0.647			0.099			0.289			

	OR 95%CI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Continuation of ongoing prescriptions by pharmacists	Total	209	159	160	113	95	186	136	46	154	149	45	20	29	54	285
	Yes	188 (89.95%)	142 (89.31%)	143 (89.38%)	101 (89.38%)	86 (90.53%)	175 (94.09%)	117 (86.03%)	38 (82.61%)	138 (89.61%)	133 (89.26%)	41 (91.11%)	18 (90%)	24 (82.76%)	47 (87.04%)	259 (90.88%)
	p-value	0.841			0.951			0.015				0.988				0.309
	OR 95%CI	-			-		(1.26-8.89)	(0.52-3.2)	ref.			-				-
Monitoring of the therapy with newly drugs	Total	201	179	156	111	91	183	130	45	148	146	44	20	29	53	276
	Yes	149 (74.13%)	112 (71.34%)	113 (72.44%)	84 (75.68%)	64 (70.33%)	140 (76.5%)	90 (69.23%)	31 (68.89%)	116 (78.38%)	95 (65.07%)	33 (75%)	17 (85%)	23 (79.31%)	39 (73.58%)	199 (72.1%)
	p-value	0.555			0.686			0.293				0.039				0.703
	OR 95%CI	-			-			-		(1.15-3.27)	1.94	ref.	1.61	3.04		(0.75-3.45) (0.85-10.87)

Age- G1: ≤35 years, G2: between 36-50 and G3: ≥ 51