

Who are the Unvaccinated? Determinants of SARS-CoV-2 Vaccinations Among Older Adults Across Europe : Online-Appendix

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Online-Appendix

Appendix to <https://doi.org/10.15464/easy.2022.01>

Who are the Unvaccinated?

Determinants of SARS-CoV-2 Vaccinations Among
Older Adults Across Europe

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Alexander Tobias Schumacher*

Table A1 Sample distribution, vaccination intention

Country	N	Vaccination intention							
		Already vaccinated		Wants to be vaccinated		Undecided		Does not want to be vaccinated	
		%	N	%	N	%	N	%	N
Austria	2302	79.8	2002	1.7	48	3.9	90	14.6	162
Belgium	3429	94.0	3261	1.5	26	1.7	48	2.8	94
Bulgaria	703	21.8	134	9.7	70	34.5	244	34.1	255
Croatia	1900	65.6	1339	6.9	102	16	258	11.5	201
Cyprus	647	83.5	548	3.1	16	6.4	34	6.9	49
Czech Rep.	2077	83.6	1736	2.7	82	6.8	113	6.8	146
Denmark	1586	97.6	1557	0.6	10	0.3	2	1.5	17
Estonia	4029	69.5	2921	7.5	245	12.2	408	10.9	455
Finland	1306	92.8	1232	3.1	24	1.4	22	2.7	28
France	1849	84.0	1601	4.7	64	5.0	76	6.3	108
Germany	2029	89.0	1843	3.8	60	1.8	36	5.4	90
Greece	3376	75.9	2597	6.5	248	9.6	284	7.9	247
Hungary	860	87.1	762	1.1	10	3.6	16	8.2	72
Israel	1276	92.1	1200	0.3	5	1.5	26	6.1	45
Italy	3345	89.9	3025	3.7	117	3.2	94	3.2	109
Latvia	959	50.3	497	7.1	61	19.4	186	23.2	215
Lithuania	1249	57.5	785	9.3	101	14.9	152	18.2	211
Luxembourg	863	88.5	805	3.8	22	1.1	9	6.7	27
Malta	786	97.9	772	0.2	2	0.4	2	1.5	10
Netherlands	730	89.9	700	1.9	5	2.0	7	6.1	18
Poland	2782	71.2	2054	6.6	145	10.8	269	11.3	314
Portugal	1068	86.8	999	9.4	51	1.8	5	2.0	13
Romania	1453	28.5	476	5.4	76	27.9	340	38.2	561
Slovakia	917	61.2	597	9.4	87	13.5	103	15.8	130
Slovenia	2938	68.7	2105	7.7	158	11.6	347	12.0	328
Spain	1794	95.8	1737	0.6	22	0.7	7	2.9	28
Sweden	967	94.5	944	0.4	4	3.3	9	1.8	10
Switzerland	1741	68.8	1441	10.1	46	13.7	91	7.4	163
Total	48961	82.6	39670	4.0	1907	5.7	3278	7.7	4106

Data: SHARE Wave 9 COVID-19 Survey 2, release 8.0.0; weighted percentages.

Table A2 Sample distribution, socio-demographic determinants

Country	N	Age group						Gender				Education					
		50-64 years		65-79 years		80+ years		Male		Female		Primary		Secondary		Post-secondary	
		%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N
Austria	2302	52.5	365	33.8	1317	13.7	620	46.8	905	53.2	1397	22.2	475	44.1	1061	33.7	728
Belgium	3429	54.8	1008	30.8	1833	14.4	588	47.3	1480	52.7	1949	27.6	1085	29.2	964	43.2	1325
Bulgaria	703	45.8	223	42.6	374	11.6	106	44.4	279	55.6	424	25.5	196	55.6	381	18.9	121
Croatia	1900	49.0	596	37.9	1045	13.1	259	44.9	831	55.1	1069	31.0	589	53.4	963	15.6	310
Cyprus	647	49.4	161	39.2	332	11.5	154	47.9	270	52.1	377	39.2	306	36.1	179	24.8	113
Czech Rep.	2077	51.0	273	38.1	1425	10.9	379	46.0	780	54.0	1297	26.9	664	49.8	1034	23.3	369
Denmark	1586	46.5	446	41.4	917	12.1	223	48.1	704	51.9	882	12.4	196	38.6	587	48.9	786
Estonia	4029	47.6	1026	37.4	1982	15.1	1021	41.0	1479	59.0	2550	16.3	821	37.2	1414	46.6	1765
Finland	1306	43.7	451	42.7	648	13.5	207	46.7	587	53.3	719	19.7	326	27.6	350	52.7	558
France	1849	50.2	395	34.4	1077	15.4	377	45.8	749	54.2	1100	25.7	593	42.2	703	32.1	533
Germany	2029	51.2	567	32.9	1082	15.9	380	47.0	933	53.0	1096	8.4	171	51.9	1058	39.6	785
Greece	3376	49.2	863	34.0	1800	16.8	713	45.8	1419	54.2	1957	42.4	1666	31.0	894	26.6	768
Hungary	860	43.5	145	44.9	597	11.6	118	42.9	332	57.1	528	18.4	198	57.7	411	23.9	231
Israel	1276	48.6	151	39.7	760	11.7	365	46.8	519	53.2	757	37.3	380	17.3	297	45.4	572
Italy	3345	52.5	823	31.0	1804	16.5	718	46.2	1470	53.8	1875	64.6	2169	25.0	714	10.4	382
Latvia	959	49.1	339	36.5	434	14.4	186	39.6	352	60.4	607	11.1	133	37.2	341	51.7	459
Lithuania	1249	52.5	477	33.4	526	14.1	246	40.3	463	59.7	786	13.4	202	38.7	431	47.9	580
Luxembourg	863	57.3	283	31.1	479	11.6	101	49.2	386	50.8	477	34.2	303	30.6	289	35.3	232
Malta	786	46.9	238	41.2	437	11.9	111	48.7	354	51.3	432	36.2	340	47.5	320	16.3	112
Netherlands	730	53.0	138	34.6	486	12.3	106	46.2	330	53.8	400	43.8	263	29.3	185	26.9	239
Poland	2782	50.2	991	37.9	1466	11.9	325	44.2	1212	55.8	1570	24.3	661	57.1	1523	18.6	521
Portugal	1068	44.6	210	40.0	669	15.4	189	43.5	468	56.5	600	82.4	810	10.6	117	6.9	133
Romania	1453	50.5	534	37.2	742	12.3	177	44.9	622	55.1	831	47.8	663	41.2	571	11.0	185
Slovakia	917	51.3	432	39.2	425	9.5	60	44.7	415	55.3	502	11.0	86	81.3	756	7.7	72
Slovenia	2938	48.0	628	38.8	1706	13.2	604	47.0	1214	53.0	1724	26.3	836	48.6	1413	25.1	613
Spain	1794	55.5	252	28.3	995	16.2	547	42.3	754	57.7	1040	68.2	1406	13.6	177	18.2	190
Sweden	967	46.0	113	40.3	622	13.8	232	48.5	423	51.5	544	17.2	256	27.7	235	55.1	470
Switzerland	1741	50.7	291	36.0	1065	13.4	385	47.8	783	52.2	958	16.9	293	41.5	775	41.6	640
Total	48961	50.9	12419	34.4	27045	14.7	9497	45.6	20513	54.4	28448	34.3	16087	38.6	18143	27.1	13792

Data: SHARE Wave 9 COVID-19 Survey 2, release 8.0.0; weighted percentages.

Table A3 Sample distribution, health-related determinants

Country	N	Self-rated health						Diagnosed physical illness				Mental health issues				Affectedness by COVID-19					
		Poor/fair		Good		Very good/ excellent		No		Yes		No		Yes		No		Mildly		Severely	
		%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N
Austria	2302	28.0	729	34.4	880	37.6	693	34.0	548	66.0	1752	52.9	1133	47.1	1168	46.1	1098	33.4	693	20.5	504
Belgium	3429	26.5	923	41.3	1486	32.2	1020	34.6	1046	65.4	2383	40.1	1379	59.9	2050	39.7	1475	36.4	1175	23.9	776
Bulgaria	703	39.6	327	46.1	297	14.3	79	26.3	148	73.7	553	34.7	221	65.3	482	52.1	350	19.8	148	28.1	205
Croatia	1900	33.6	705	36.7	704	29.7	490	25.6	388	74.4	1512	40.2	729	59.8	1171	50.3	966	38.7	697	11.0	229
Cyprus	647	26.8	226	42.1	273	31.2	148	34.8	175	65.2	472	45.9	286	54.1	361	56.4	374	32.8	202	10.8	68
Czech Rep.	2077	28.8	725	53.6	1048	17.6	303	17.3	377	82.7	1700	49.8	905	50.2	1168	30.7	799	47.6	914	21.7	361
Denmark	1586	21.3	346	22.2	381	56.5	856	35.1	488	64.9	1097	59.7	933	40.3	653	52.6	866	40.2	626	7.1	94
Estonia	4029	59.5	2714	32.3	1090	8.2	225	29.2	882	70.8	3137	36.2	1282	63.8	2747	53.7	2288	37.1	1389	9.2	340
Finland	1306	27.3	425	46.1	587	26.7	294	26.1	329	73.9	976	39.6	527	60.4	779	68.9	976	27.9	289	3.2	41
France	1849	30.9	647	45.4	831	23.7	370	30.8	547	69.2	1302	34.6	623	65.4	1226	52.9	978	31.8	603	15.3	265
Germany	2029	39.6	792	39.9	837	20.5	399	21.0	388	79.0	1641	40.0	873	60.0	1156	60.4	1253	27.2	533	12.4	243
Greece	3376	27.1	1169	37.5	1349	35.3	858	33.6	920	66.4	2456	34.8	1179	65.2	2197	61.9	2094	21.2	692	16.9	590
Hungary	860	42.5	371	36.0	348	21.5	141	24.5	128	75.5	732	36.5	326	63.5	534	65.3	500	21.1	217	13.6	142
Israel	1276	37.5	605	38.4	382	24.1	280	38.7	330	61.3	943	40.8	365	59.2	911	65.0	722	24.1	336	10.9	188
Italy	3345	40.0	1492	42.0	1409	18.0	443	36.7	1000	63.3	2345	36.4	1150	63.6	2194	60.1	2107	20.0	637	19.9	596
Latvia	959	63.7	663	34.9	283	1.5	13	21.3	167	78.7	791	28.1	258	71.9	701	56.9	561	35.4	316	7.6	82
Lithuania	1249	53.1	718	40.5	462	6.3	67	23.6	241	76.4	1007	34.6	401	65.4	848	44.2	568	38.7	458	17.1	210
Luxembourg	863	26.5	246	47.4	403	26.1	214	45.7	322	54.3	541	38.0	352	62.0	511	34.5	310	40.6	332	24.9	220
Malta	786	43.2	364	45.1	346	11.7	76	28.9	196	71.1	589	33.2	247	66.8	539	68.6	539	20.9	176	10.5	71
Netherlands	730	29.4	184	40.6	299	30.0	247	44.8	278	55.2	451	51.6	444	48.4	286	28.7	278	46.7	321	24.6	131
Poland	2782	41.7	1246	48.3	1317	10.0	218	22.9	531	77.1	2251	34.8	925	65.2	1857	43.6	1212	38.7	1091	17.8	477
Portugal	1068	64.6	709	23.5	283	12.0	74	19.2	174	80.8	893	19.7	258	80.3	810	39.5	563	40.9	317	19.7	188
Romania	1453	35.9	589	49.8	679	14.3	185	33.0	398	67.0	1054	47.7	626	52.3	827	72.2	1035	16.0	254	11.8	163
Slovakia	917	21.5	199	52.0	488	26.5	230	34.1	313	65.9	604	40.3	374	59.7	543	63.7	588	24.6	221	11.7	108
Slovenia	2938	27.6	1038	44.8	1335	27.5	565	32.8	687	67.2	2251	48.7	1334	51.3	1604	47.6	1476	42.2	1167	10.2	295
Spain	1794	36.5	885	42.9	705	20.6	203	34.3	389	65.7	1405	51.5	808	48.5	986	59.5	1033	28.5	423	12.0	333
Sweden	967	21.5	271	38.5	348	40.0	348	30.5	242	69.5	725	54.2	504	45.8	463	28.8	322	53.5	489	17.7	156
Switzerland	1741	24.2	330	33.1	760	42.7	651	48.4	709	51.6	1032	51.6	901	48.4	840	32.3	718	49.9	631	17.8	391
Total	48961	36.2	19638	41.9	19610	21.9	9690	29.9	12341	70.1	36595	40.6	19343	59.4	29612	53.9	26049	30.2	15347	15.9	7467

Data: SHARE Wave 9 COVID-19 Survey 2, release 8.0.0; weighted percentages.

Table A4 Sample distribution, determinants related to living conditions and economic situation

Country	N	Area of living				Making ends meet				At risk of poverty				Working status					
		Rural		Urban		Fairly easily/ easily		With great/ some difficulties		No		Yes		Retired		Employed/ self-employed		Other non-working	
		%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N
Austria	2302	63.2	1362	36.8	904	89.6	1996	10.4	210	75.0	1743	10.1	189	62.8	2056	26.8	133	10.4	113
Belgium	3429	64.5	2180	35.5	1193	84.0	2823	16.0	512	79.6	2691	7.7	261	51.3	2549	36.2	590	12.5	290
Bulgaria	703	71.1	492	28.9	190	30.5	211	69.5	482	85.6	607	12.1	81	51.7	463	34.8	158	13.5	81
Croatia	1900	79.5	1441	20.5	409	41.5	747	58.5	1088	65.2	1257	17.7	320	62.9	1464	23.1	226	14.0	206
Cyprus	647	36.8	216	63.2	343	46.5	252	53.5	282	58.3	338	17.7	86	50.6	463	37.2	113	12.2	69
Czech Rep.	2077	52.3	1042	47.7	1006	93.0	1871	7.0	176	64.8	1327	7.2	173	53.7	1887	37.8	164	8.5	25
Denmark	1586	50.2	795	49.8	768	95.7	1484	4.3	71	71.5	1101	10.8	170	48.6	1020	43.4	474	8.0	92
Estonia	4029	58.0	2249	42.0	1647	66.7	2627	33.3	1258	79.9	3283	7.8	282	48.2	2731	43.1	1106	8.7	190
Finland	1306	66.8	803	33.2	327	86.1	1091	13.9	185	70.6	884	12.5	195	61.2	909	35.5	355	3.4	41
France	1849	77.2	1400	22.8	433	80.8	1489	19.2	296	71.2	1318	15.1	218	57.8	1559	34.8	222	7.5	67
Germany	2029	68.9	1366	31.1	637	86.9	1820	13.1	179	73.4	1484	12.0	212	49.5	1443	40.3	451	10.2	135
Greece	3376	27.8	875	72.2	2423	10.7	357	89.3	2922	66.5	2218	6.7	250	44.5	1991	31.0	510	24.6	873
Hungary	860	65.8	508	34.2	326	27.8	248	72.2	551	56.0	442	6.8	73	64.2	763	32.2	75	3.5	20
Israel	1276	11.7	217	88.3	1035	51.6	723	48.4	407	36.5	513	9.5	166	27.9	654	34.3	275	37.9	343
Italy	3345	77.0	2181	23.0	1066	50.3	1786	49.7	1416	60.4	2085	14.7	390	43.5	2068	33.7	524	22.7	744
Latvia	959	58.8	499	41.2	381	49.9	451	50.1	473	64.9	618	13.3	139	50.3	611	35.9	255	13.8	93
Lithuania	1249	45.7	493	54.3	640	61.0	732	39.0	494	75.4	951	13.1	166	46.4	746	39.0	367	14.6	134
Luxembourg	863	63.7	541	36.3	267	90.5	748	9.5	64	42.7	341	9.4	49	47.2	617	37.9	93	14.8	153
Malta	786	57.7	403	42.3	314	62.8	484	37.2	272	70.1	566	9.5	62	37.7	367	27.5	121	34.8	298
Netherlands	730	55.2	280	44.8	407	94.8	683	5.2	36	75.9	541	12.3	50	43.7	540	43.7	123	12.6	67
Poland	2782	62.1	1567	37.9	1060	52.5	1485	47.5	1215	55.0	1566	14.6	341	57.5	1976	29.0	547	13.5	257
Portugal	1068	44.7	499	55.3	558	49.7	509	50.3	544	55.7	641	10.2	152	46.8	805	35.3	130	17.9	133
Romania	1453	94.1	1164	5.9	139	31.0	458	69.0	956	68.4	1024	26.8	330	60.4	1065	19.5	177	20.1	211
Slovakia	917	75.8	595	24.2	210	46.1	423	53.9	410	78.6	679	8.9	66	58.7	591	36.0	281	5.4	44
Slovenia	2938	79.6	2209	20.4	617	55.9	1560	44.1	1315	68.1	2010	12.3	397	63.3	2526	29.8	261	6.9	149
Spain	1794	37.2	816	62.8	959	72.6	1324	27.4	385	53.0	839	5.6	109	40.6	1204	29.5	127	30.0	463
Sweden	967	56.3	516	43.7	420	92.8	864	7.2	82	84.6	738	7.3	100	50.7	808	47.0	150	2.2	9
Switzerland	1741	81.2	1306	18.8	378	84.0	1505	16.0	161	53.5	919	18.5	143	47.0	1368	42.4	305	10.6	67
Total	48961	64.9	28015	35.1	19057	68.6	30751	31.4	16442	66.3	32724	12.5	5170	50.4	35244	34.7	8313	14.9	5367

Data: SHARE Wave 9 COVID-19 Survey 2, release 8.0.0; weighted percentages.

Table A5 Proportion of vaccination hesitancy by socio-demographic determinants

Country	Age group									Gender						Education								
	50-64 years			65-79 years			80+ years			Male			Female			Primary		Secondary		Post-secondary				
	%	CI		%	CI		%	CI		%	CI		%	CI		%	CI	%	CI	%	CI			
Austria	25.4	13.7	37.1	12	9.7	14.2	8.1	5.8	10.5	17	7.1	26.8	19.9	12	27.8	36	17.1	55.0	15.9	10.3	21.4	8.8	1.8	15.8
Belgium	5.5	3.4	7.6	3.1	2.3	4.0	3.9	2.3	5.6	4.9	2.7	7.1	4.2	3.1	5.4	5.1	2.7	7.4	4.0	2.2	5.7	4.5	2.4	6.5
Bulgaria	69.2	61.5	77.0	66.5	60.8	72.2	73.8	63.7	83.9	68.0	60.7	75.2	69.1	63.5	74.7	83.5	77.0	90	68.5	62.5	74.6	47.9	36.8	59.0
Croatia	32.1	26.8	37.4	21.0	18.3	23.6	29.4	23.4	35.4	25.0	20.0	29.9	29.6	26.1	33.1	31.7	26.8	36.6	29.1	24.7	33.5	14.7	9.3	20.1
Cyprus	14.4	8.4	20.4	11.2	7.1	15.2	16.2	10.0	22.4	10.0	5.4	14.7	16.4	11.4	21.3	16.2	10.7	21.7	14.8	7.8	21.9	6.4	1.8	10.9
Czech Rep.	16.3	5.0	27.7	11.0	9.2	12.8	10.5	6.9	14.2	8.1	2.7	13.5	18.5	9.9	27.1	8.4	4.4	12.5	16.9	8.6	25.2	12.8	-2.8	28.3
Denmark	2.7	0.5	4.8	1.1	0.4	1.8	1.1	-0.4	2.6	1.5	-0.1	3.1	2.1	0.7	3.6	3.5	-1.4	8.4	1.6	0.1	3.1	1.6	0.3	3.0
Estonia	24.5	21.0	27.9	19.9	18.0	21.9	26.1	23.3	28.9	23.2	20.0	26.4	22.9	20.7	25.0	29.3	25.4	33.3	26.5	23.2	29.9	18.4	15.9	21.0
Finland	5.0	2.0	8.0	3.3	1.0	5.6	3.7	-1.1	8.6	4.2	1.7	6.8	4.0	1.6	6.4	8.0	2.9	13.2	3.0	0.3	5.6	3.2	0.8	5.7
France	13.9	8.8	18.9	8.4	6.7	10.0	9.4	6.3	12.5	9.2	5.1	13.4	13.0	9.7	16.4	12.8	8.2	17.4	13.6	8.6	18.6	7.0	3.8	10.3
Germany	10.2	6.8	13.5	4.8	3.5	6.2	2.5	0.6	4.3	5.6	2.9	8.2	8.6	6.2	11.1	6.8	2.5	11.1	8.3	5.5	11.0	5.8	3.1	8.4
Greece	20.8	17.4	24.3	16.3	14.5	18.1	10.6	8.3	12.9	18.1	14.9	21.3	17.1	15.1	19.2	15.7	13.4	17.9	21.5	17.6	25.4	16.6	12.7	20.5
Hungary	16.9	1.1	32.7	7.9	5.1	10.7	8.0	2.7	13.2	15.5	0.3	30.7	9.0	5.1	12.8	8.0	3.9	12.2	15.1	3.3	26.9	7.3	1.9	12.6
Israel	7.4	-2.1	16.9	7.6	4.8	10.4	8.3	4.7	11.8	3.4	0.8	6.0	11.3	3.3	19.3	14.0	0.4	27.7	4.0	1.3	6.7	3.6	1.4	5.9
Italy	7.7	4.6	10.7	4.7	3.6	5.7	5.4	3.6	7.2	5.4	3.3	7.5	7.2	4.7	9.7	6.6	4.7	8.6	4.3	1.9	6.6	10.8	1.7	19.8
Latvia	46.1	40.3	52.0	38.0	33.2	42.7	42.4	34.8	49.9	45.1	39.1	51.1	41.0	36.7	45.3	51.0	41.8	60.1	47.2	41.1	53.2	37.8	32.8	42.8
Lithuania	40.7	35.6	45.8	22.2	18.4	26.0	30.9	24.6	37.3	34.5	29.0	40.1	32.2	28.5	35.9	37.3	29.8	44.8	39.6	33.9	45.4	27.3	23.1	31.5
Luxembourg	10.3	1.0	19.7	5.3	3.0	7.6	1.4	-1.3	4.2	7.9	-0.8	16.7	7.5	0.9	14.2	4.4	1.2	7.7	7.1	-1.2	15.4	12.6	-1.1	26.3
Malta	2.9	0.3	5.5	1.1	0.1	2.0	0.7	-0.7	2.1	1.6	-0.2	3.4	2.2	0.4	4.0	0.9	0.0	1.9	2.3	0.1	4.4	3.3	-1.3	8.0
Netherlands	12.4	-0.7	25.4	3.0	1.3	4.8	4.4	0.1	8.8	8.1	-4.6	20.8	8.2	1.3	15.1	13.2	-1.6	28.0	6.6	-3.1	16.4	2.8	0.3	5.3
Poland	24.9	21.7	28.2	17.2	15.1	19.3	26.0	20.8	31.2	21.8	18.7	24.9	22.4	20.0	24.8	30.7	26.5	34.9	22.4	19.7	25.0	11.0	7.8	14.2
Portugal	7.4	-0.9	15.8	1.1	0.1	2.2	0.5	-0.1	1.0	6.6	-1.1	14.3	1.7	-0.3	3.6	2.8	-0.5	6.1	13.3	-6.8	33.4	8.4	-6.9	23.8
Romania	63.3	57.3	69.3	63.2	59.1	67.4	86.6	81.4	91.8	64.8	59.1	70.6	67.2	62.9	71.5	75.4	70.9	79.9	62.1	56.1	68.1	41.0	31.4	50.6
Slovakia	30.7	25.7	35.6	25.2	20.5	29.8	39.9	26.8	53	30.2	24.9	35.4	28.8	24.3	33.2	57.2	46.1	68.4	27.0	23.3	30.7	14.7	4.8	24.6
Slovenia	24.8	19.0	30.6	22.4	20.2	24.6	22.7	19.2	26.2	19.9	15.1	24.7	26.8	23.4	30.2	28.8	23.4	34.1	27.1	22.2	32.0	11.5	8.0	15.0
Spain	5.3	-0.5	11.1	0.8	0.3	1.4	2.8	1.3	4.4	2.1	-0.0	4.2	4.8	-0.5	10.1	2.4	0.7	4.1	3.4	-2.3	9.2	8.6	-7.1	24.3
Sweden	9.1	-2.0	20.1	2.1	0.8	3.4	1.3	-0.3	2.9	7.0	-2.9	16.9	3.5	-0.2	7.1	3.7	1.1	6.4	4.5	-2.4	11.3	6.1	-2.7	14.8
Switzerland	28.4	4.2	52.6	15.6	13.3	18.0	8.3	5.4	11.1	25.8	0.3	51.4	16.8	11.8	21.8	18.5	7.5	29.6	19.0	13.7	24.4	29.3	-0.2	58.7
Total	15.5	13.9	17.2	11.1	10.5	11.7	10.9	9.8	11.9	12.3	10.9	13.7	14.2	13.1	15.3	14.1	12.7	15.4	15.8	14.4	17.2	9.2	7.3	11.1

Data: SHARE Wave 9 COVID-19 Survey 2, release 8.0.0; weighted.

Table A6 Proportion of vaccination hesitancy by health-related determinants

Country	Self-rated health						Diagnosed physical illness						Mental health issues						Affectedness by COVID-19											
	Poor/fair		Good		Very good/ excellent		No		Yes		No		Yes		No		Mildly		Severely											
	%	CI	%	CI	%	CI	%	CI	%	CI	%	CI	%	CI	%	CI	%	CI	%	CI										
Austria	22.1	12.2	32.0	22.4	8.9	35.9	12.3	5.3	19.2	24.7	11.7	37.6	15.3	8.4	22.1	20.4	10.8	30.0	16.4	8.6	24.1	15.4	8.4	22.4	22.9	9.9	36.0	18.3	4.0	32.6
Belgium	4.9	2.3	7.5	3.7	2.3	5.1	5.3	2.9	7.7	5.9	3.4	8.3	3.9	2.6	5.1	3.6	1.7	5.5	5.2	3.6	6.7	5.5	3.6	7.4	4.4	2.4	6.3	3.2	0.7	5.7
Bulgaria	73.7	68.0	79.4	68.0	61.0	75.0	56.3	42.4	70.2	64.8	55.1	74.5	69.8	64.8	74.8	65.2	57.0	73.4	70.4	65.1	75.6	72.3	66.1	78.4	73.5	64.9	82.1	58.3	49.5	67.1
Croatia	29.1	24.7	33.5	25.3	20.3	30.4	28.5	22.6	34.3	29.2	22.4	36.0	26.9	23.8	30.1	25.6	20.7	30.6	28.8	25.2	32.4	28.2	24.4	32.0	28.8	23.5	34.1	19.6	11.8	27.4
Cyprus	16.1	10.5	21.8	16.2	10.2	22.3	7.0	1.8	12.3	14.2	7.9	20.6	12.9	8.8	16.9	13.6	8.1	19.1	13.1	8.8	17.4	14.2	9.5	19.0	12.2	6.1	18.3	12.3	4.4	20.1
Czech Rep.	10.1	5.6	14.7	15.5	5.9	25.2	13.8	2.2	25.5	21.5	9.2	33.7	12.1	5.7	18.4	16.5	6.0	27.0	11.0	6.1	15.9	18.2	8.9	27.5	12.5	3.6	21.4	9.7	-0.5	20.0
Denmark	2.2	-0.1	4.5	0.8	-0.0	1.6	2.1	0.5	3.8	4.2	1.3	7.1	0.6	0.1	1.0	1.9	0.4	3.4	1.7	0.3	3.2	1.1	0.1	2.0	3.1	0.8	5.5	.	.	.
Estonia	24.4	22.1	26.6	21.1	17.6	24.7	20.6	13.9	27.3	24.2	20.2	28.2	22.3	20.3	24.2	24.6	21.1	28.1	22.1	20.0	24.2	25.6	23.0	28.1	21.2	18.2	24.2	15.5	10.3	20.7
Finland	3.6	0.9	6.3	2.8	1.0	4.7	6.8	1.9	11.8	5.2	1.2	9.2	3.7	1.8	5.6	4.0	1.2	6.8	4.2	2.0	6.4	4.5	2.3	6.7	3.1	0.0	6.2	4.4	-1.7	10.4
France	9.8	5.8	13.8	10.0	6.2	13.8	15.7	9.0	22.5	17.7	11.8	23.7	8.4	5.8	11.1	7.5	4.6	10.4	13.3	9.6	17.0	8.8	6.0	11.5	15.6	9.6	21.6	10.8	4.5	17.1
Germany	6.6	3.6	9.6	6.6	4.1	9.1	9.6	5.1	14.0	11.3	7.0	15.7	6.1	4.1	8.1	5.8	3.4	8.1	8.1	5.6	10.7	7.1	5.0	9.1	7.7	4.2	11.2	6.5	-0.7	13.8
Greece	14.0	11.4	16.5	14.6	12.4	16.8	23.5	19.3	27.6	22.6	18.7	26.4	15.0	13.1	17.0	17.8	14.6	21.0	17.4	15.2	19.7	18.1	15.8	20.5	18.6	14.3	22.9	14.2	9.8	18.5
Hungary	7.0	1.9	12.0	8.4	4.6	12.3	26.9	3.6	50.3	28.5	7.6	49.5	6.4	3.4	9.3	17.0	6.5	27.5	8.8	0.5	17.1	14.5	4.2	24.8	9.2	3.1	15.3	2.8	0.5	5.0
Israel	6.5	3.6	9.4	12.0	-0.7	24.8	2.2	-0.6	4.9	5.8	-2.0	13.6	8.7	3.0	14.5	2.0	0.2	3.7	11.4	4.3	18.6	9.2	1.8	16.7	4.8	2.0	7.6	3.5	0.9	6.1
Italy	7.1	4.0	10.3	6.1	3.9	8.3	5.3	2.1	8.4	6.8	4.2	9.5	6.1	4.0	8.2	7.5	4.6	10.5	5.7	3.7	7.7	7.3	4.8	9.7	7.1	3.9	10.3	2.9	1.3	4.4
Latvia	45.3	41.1	49.6	38.1	31.7	44.5	32.7	6.4	58.9	42.3	33.9	50.7	42.8	38.9	46.6	40.6	33.7	47.4	43.4	39.3	47.6	48.3	43.6	53.0	37.0	31.0	43.0	26.2	16.3	36.2
Lithuania	33.3	29.3	37.3	33.7	28.4	38.9	29.3	15.2	43.3	41.8	34.5	49.1	30.5	27.1	33.9	31.7	26.3	37.1	33.9	30.0	37.8	37.5	32.6	42.3	31.1	26.0	36.1	25.9	18.8	32.9
Luxembourg	3.3	1.1	5.5	9.7	-0.3	19.6	8.7	-0.9	18.4	13.7	2.5	25.0	2.7	1.4	4.0	3.0	1.2	4.8	10.6	2.1	19.2	3.4	1.4	5.4	10.3	-1.2	21.8	9.6	-0.4	19.7
Malta	2.1	0.1	4.1	1.2	-0.2	2.6	3.7	-2.4	9.9	1.8	-0.8	4.4	1.9	0.4	3.4	0.8	-0.1	1.8	2.4	0.6	4.3	1.4	0.1	2.7	0.8	-0.3	2.0	7.3	-0.9	15.5
Netherlands	6.0	-3.0	15.1	13.4	-1.4	28.2	3.1	0.6	5.7	5.2	-1.0	11.4	10.4	-0.8	21.6	5.3	-0.0	10.7	11.2	-1.7	24.1	9.7	0.7	18.8	11.5	-1.7	24.8	.	.	.
Poland	24.1	21.2	27.0	20.2	17.5	22.9	22.9	15.8	30.0	25.1	20.3	29.9	21.3	19.2	23.3	21.2	17.8	24.7	22.6	20.3	24.9	26.1	23.0	29.2	20.6	17.5	23.6	15.9	11.8	19.9
Portugal	2.8	-0.8	6.5	1.1	-0.6	2.8	14.6	-6.5	35.8	10.1	-2.6	22.7	2.4	-0.6	5.3	6.0	-4.4	16.4	3.3	-0.1	6.7	5.2	-0.9	11.2	4.3	-1.7	10.2	0.2	-0.1	0.4
Romania	68.3	63.0	73.6	63.2	57.8	68.5	71.1	62.7	79.5	70.0	63.4	76.5	64.1	60.2	68.1	65.2	59.7	70.7	67.0	62.6	71.3	69.4	65.3	73.6	58.1	50.4	65.9	56.7	46.7	66.7
Slovakia	36.7	29.1	44.3	27.0	22.4	31.5	28.2	21.5	35.0	31.6	25.7	37.4	28.2	24.1	32.4	30.5	25.0	36.0	28.6	24.3	33.0	30.9	26.6	35.1	32.8	25.4	40.1	14.2	7.0	21.3
Slovenia	24.5	20.8	28.3	23.0	18.2	27.7	23.6	17.2	30.0	22.7	17.3	28.1	24.0	20.5	27.5	24.9	20.3	29.5	22.3	18.6	25.9	24.0	20.3	27.6	24.4	19.2	29.7	18.2	10.2	26.1
Spain	1.9	0.1	3.7	2.0	-0.2	4.2	10.1	-4.0	24.2	6.4	-2.3	15.1	2.2	0.5	3.9	4.8	-1.1	10.6	2.5	0.2	4.7	5.5	0.2	10.9	0.6	0.1	1.0	1.6	-0.6	3.9
Sweden	2.0	0.1	3.8	10.3	-2.4	23.1	2.0	-0.1	4.0	2.6	-0.1	5.3	6.3	-1.0	13.7	8.2	-1.2	17.6	1.6	0.5	2.7	2.2	0.5	3.9	8.2	-1.3	17.6	1.0	-0.4	2.4
Switzerland	10.4	1.4	19.4	14.7	10.4	19.0	32.2	7.2	57.1	32.3	10.3	54.4	10.6	6.1	15.0	28.2	6.2	50.1	13.6	7.5	19.6	20.2	13.9	26.6	24.6	-0.2	49.5	12.6	5.6	19.7
Total	12.9	11.7	14.1	13.3	12.0	14.6	14.0	11.6	16.4	16.4	14.4	18.5	12.0	11.1	12.8	13.0	11.6	14.4	13.5	12.5	14.6	14.4	13.2	15.5	13.2	11.4	15.0	9.9	8.2	11.7

Data: SHARE Wave 9 COVID-19 Survey 2, release 8.0.0; weighted.

Table A7 Proportion of vaccination hesitancy by determinants related to living conditions and economic situation

Country	Area of living						Making ends meet						At risk of poverty						Working status								
	Rural			Urban			Fairly easily/ easily			With great/ some difficulties			No		Yes				Retired			Employed/ self-employed			Other non-working		
	%	CI		%	CI		%	CI		%	CI		%	CI	%	CI	%	CI	%	CI	%	CI	%	CI	%	CI	%
Austria	23.7	14.5	32.9	9.9	4.9	15.0	17.9	10.8	24.9	26.9	11.5	42.3	15.6	8.8	22.5	13.3	4.5	22.1	12.3	9.4	15.2	19.4	5.4	33.3	53.6	25.7	81.5
Belgium	3.6	2.3	4.9	6.2	3.7	8.6	3.5	2.4	4.6	9.6	5.3	13.9	4.3	3.0	5.6	7.0	3.0	10.9	3.5	2.7	4.3	4.8	2.3	7.3	8.0	2.7	13.3
Bulgaria	70.3	65.0	75.6	64.1	55.3	72.9	64.7	56.5	72.9	70.2	64.8	75.6	65.5	60.5	70.5	88.4	81.2	95.7	69.4	64.5	74.4	63.0	53.6	72.4	79.6	68.8	90.4
Croatia	30.2	26.8	33.6	17.9	12.6	23.2	21.3	16.4	26.2	30.8	27.1	34.5	24.3	20.7	27.9	33.9	27.3	40.4	25.0	22.1	27.9	26.5	18.3	34.7	41.3	32.1	50.5
Cyprus	10.7	5.8	15.6	15.0	9.8	20.2	12.6	6.7	18.5	12.9	8.0	17.7	9.5	6.0	12.9	18.9	5.6	32.1	11.3	8.0	14.6	13.9	6.8	21.0	20.2	8.7	31.7
Czech Rep.	15.0	5.7	24.3	10.4	5.0	15.8	12.1	6.3	17.9	18.7	6.9	30.5	13.2	5.1	21.2	17.9	7.9	28.0	10.9	9.3	12.6	19.3	4.3	34.2	6.1	-4.8	17.1
Denmark	2.1	0.5	3.7	1.7	0.2	3.2	0.9	0.3	1.5	10.7	-1.5	22.9	1.6	0.5	2.7	0.6	-0.5	1.7	1.1	0.4	1.8	3.0	0.7	5.3	.	.	.
Estonia	20.1	17.7	22.5	28.5	25.5	31.6	18.3	16.3	20.4	30.1	26.5	33.6	21.0	19.1	23	26.7	20.0	33.5	24.0	22.2	25.9	21.2	17.9	24.6	26.0	17.9	34.1
Finland	3.2	1.3	5.1	6.2	1.9	10.6	3.3	1.5	5.0	9.4	2.6	16.3	2.8	1.0	4.7	13.6	5.1	22.1	2.9	1.2	4.6	4.3	1.2	7.4	24.3	2.1	46.6
France	11.4	8.4	14.4	10.9	5.0	16.8	10.5	7.5	13.4	15.2	8.2	22.2	9.3	6.3	12.3	19.1	9.7	28.4	8.4	7.0	9.8	16.5	9.5	23.5	9.7	1.9	17.4
Germany	7.4	5.1	9.7	6.8	3.9	9.7	6.4	4.5	8.3	13.6	7.3	20.0	6.4	4.3	8.4	8.7	3.9	13.5	4.1	3.0	5.3	8.9	5.6	12.2	15.3	5.0	25.6
Greece	17.1	13.4	20.8	18.2	16.0	20.4	15.1	9.5	20.6	17.4	15.4	19.3	17.5	15.2	19.8	15.0	10.1	20.0	13.7	12.1	15.4	23.1	18.4	27.8	17.4	14	20.8
Hungary	15.9	5.6	26.2	9.1	4.8	13.3	6.9	1.8	12.0	14.2	4.4	24.1	10.5	0.3	20.8	14.4	2.1	26.7	7.3	5.0	9.6	20.1	-1.8	42.1	17.8	-4.6	40.1
Israel	12.1	5.7	18.4	7.1	1.7	12.5	8.1	0.0	16.1	9.2	1.6	16.8	8.2	-1.0	17.5	12.1	5.0	19.1	3.9	1.8	6.0	1.6	-0.4	3.6	15.7	1.7	29.7
Italy	6.1	4.3	8.0	7.7	3.7	11.7	4.4	3.0	5.8	8.0	5.1	11.0	4.8	3.3	6.3	12.5	4.5	20.4	4.1	3.1	5.0	4.6	2.4	6.9	13.3	7.4	19.2
Latvia	42.0	37.0	46.9	45.3	39.8	50.9	34.8	29.9	39.7	49.6	44.5	54.6	39.3	35	43.7	48.4	39.0	57.8	39.6	35.6	43.7	37.0	30.4	43.5	68.1	57.4	78.8
Lithuania	33.7	28.6	38.8	33.3	29.0	37.6	26.2	22.3	30.1	43.6	38.4	48.7	31.2	27.7	34.6	41.4	32.7	50.0	26.2	22.8	29.6	32.5	26.9	38.1	56.6	46.6	66.5
Luxembourg	9.5	0.6	18.3	5.0	2.3	7.6	8.2	1.8	14.5	6.0	0.8	11.3	6.8	0.5	13.1	0.6	-0.6	1.8	3.7	2.2	5.3	14.3	0.6	28.0	3.5	0.4	6.6
Malta	0.7	0.0	1.4	1.5	-0.0	3.0	2.3	0.4	4.1	1.5	-0.2	3.1	2.5	0.7	4.4	1.6	-0.7	3.8	1.1	-0.3	2.5	4.2	0.1	8.3	1.0	0.0	1.9
Netherlands	10.9	-1.5	23.3	5.8	-0.4	12.0	8.0	0.6	15.3	13.5	1.1	25.8	10.0	1.0	19.0	2.9	-1.9	7.6	3.3	1.5	5.1	3.9	-2.3	10.1	40.1	5.9	74.3
Poland	25.9	23.2	28.5	17.0	14.2	19.8	16.8	14.4	19.2	27.4	24.4	30.5	18.7	16.4	21.1	36.4	30.3	42.4	18.8	16.9	20.8	24.8	20.3	29.3	30.7	24.1	37.2
Portugal	5.4	-1.2	12.0	3.5	-0.7	7.7	5.0	-0.7	10.7	2.7	-1.1	6.5	5.1	-0.6	10.8	2.7	-1.0	6.5	0.7	0.2	1.3	6.4	-2.0	14.8	7.0	-4.8	18.7
Romania	68.0	64.2	71.8	48.9	39.5	58.2	55.9	49.9	61.9	70.3	65.9	74.6	60.9	56.6	65.1	80.8	74.8	86.8	65.0	61.3	68.7	61.0	51.2	70.8	74.4	65.4	83.4
Slovakia	33.7	29.4	38.0	18.4	12.1	24.8	23.6	18.9	28.2	37.6	32.3	42.9	30.2	26.3	34.2	45.5	32.5	58.5	29.6	25.4	33.8	27.2	21.2	33.3	42.6	26.4	58.9
Slovenia	24.8	21.2	28.4	19.0	14.7	23.4	20.8	16.7	24.9	28.0	23.7	32.4	20.2	16.9	23.5	35.5	28.9	42.2	22.4	20.2	24.5	22.8	14.6	31.0	37.1	23.1	51.0
Spain	1.9	0.2	3.6	4.7	-0.3	9.8	4.5	-0.0	9.0	1.7	0.0	3.4	5.5	-0.5	11.5	0.8	-0.5	2.1	1.1	0.5	1.7	7.0	-3.2	17.2	3.8	0.1	7.5
Sweden	1.0	0.3	1.7	5.2	0.2	10.1	5.5	-0.1	11.2	1.3	-1.3	3.9	6.0	-0.1	12.2	1.4	-0.6	3.3	1.8	0.7	2.8	9.1	-1.7	19.9	.	.	.
Switzerland	26.4	10.1	42.6	9.3	6.2	12.4	22.8	7.7	37.9	10.0	-0.5	20.5	26.4	4.4	48.4	6.1	-0.0	12.3	13.5	11.6	15.4	33.0	7.5	58.6	6.7	-3.6	17.1
Total	15.1	13.9	16.2	9.9	8.5	11.3	9.7	8.7	10.8	21.0	19.4	22.7	12.6	11.5	13.7	21.6	18.6	24.6	11.4	10.8	11.9	13.8	11.8	15.8	18.9	15.8	21.9

Data: SHARE Wave 9 COVID-19 Survey 2, release 8.0.0; weighted.



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