

Appendix 2

Perceptions of immunity and vaccination certificates among the general population: a nested study within a serosurvey of anti-SARS-CoV-2 antibodies (SEROCoV-POP)

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Supplementary tables

Table S1: Survey instrument.	
I. Questionnaire (translated into English)	
To date it is impossible to say with certainty whether having antibodies against SARS-CoV-2 could protect against reinfection with the same virus (as would be the case with effective vaccination). However, based on the assumption that serological or other tests could in the future confirm the presence or absence of protective immunity against SARS-CoV-2, certificates of immunity are being studied. These could be used for the purpose of verifying the presence or absence of immunity against the virus in general, or in specific contexts (for example for travel, for at-risk employment, etc.). Therefore, we would like to survey your perception of such certificates, called "immunity certificates", in connection with SARS-CoV-2 for the general population.	
Date:	
Possible answers to the following questions: Strongly agree, Agree, Neutral, Disagree, Strongly disagree	
The presence of antibodies will encourage people to resume some activities they would have foregone (e.g. outings, sports, etc.)	
The absence of antibodies will encourage people to take more precautionary measures against the virus such as:	Wearing a mask Respecting social distancing Staying home
If a test could confirm the presence or absence of immunity against SARS-CoV-2, should an immunity certificate be offered to the general population?	
If immunity certificates were offered by government authorities, in what situation(s) would they be of use?	To be shown to one's employer To give the holder the right to work When taking a plane When entering another country When attending large gatherings (e.g. concerts, sports matches, etc.) There is no situation in which immunity certificates would be of use. Other situations in which a certificate would be of use?
Do you think an employer would have the right to request an immunity certificate if	The employment requires prolonged or close contact with infected people, increasing the employee's risk of contracting the disease? The employment requires prolonged or close contact with people in general (e.g. police officer, home care or in nursing homes, etc.)? Work arrangements to avoid contagiousness would be costly to the employer (i.e. maintaining a suitable distance)?
There is a risk that individuals without immunity would deliberately want to become infected in order to obtain an immunity certificate.	
There is a risk of discrimination against individuals whose certificate indicates the absence of immunity.	

If a vaccine against SARS-CoV-2 becomes available,	Vaccination should be mandatory. An immunity certificate indicating vaccination or protective immunity against the virus should be mandatory.
Choose one of the following options:	
If an immunity certificate is offered by government authorities, such a certificate should be available in	Paper form. Digital form. Both paper and digital forms.
II. Specific questions for SEROCov-POP participants	
Why did you wish to participate in the SEROCov-POP seroprevalence study?	I have had symptoms of COVID-19 disease and want to know if I have developed antibodies. I tested positive for SARS-CoV-2 and want to know if I have developed antibodies. I tested negative for SARS-CoV-2 but still want to know if I was infected. I want to know if I have developed antibodies to SARS-CoV-2 even though I have not had symptoms of COVID-19 disease (cough, fever, etc.). I want to know if my family has developed antibodies to SARS-CoV-2. I want to help advance research on COVID-19 disease, Other reason(s). Please specify:
What result are do expect?	I expect my test result to be positive. I expect my test result to be negative. I have no idea.
III. Specific questions for subjects who did not participate in SEROCov-POP but answered the questionnaire on immunity certificates	
What was/were your reason(s) for not participating in the SEROCov-POP study? (several answers possible)	I was ill at the time of the invitation and could not participate. I didn't want to come out of lockdown. I have mobility issues. Lack of time I am not interested in such test results. I did not agree to receive my results only at the end of the study. I already know that I have been infected with SARS-CoV-2. I don't believe I have been infected with SARS-CoV-2. Other reason(s). Please specify:
I. Questionnaire (original version in French)	
A ce jour il est impossible de dire avec certitude si le fait d'avoir des anticorps contre le SARS-CoV-2 pourrait protéger contre une réinfection au même virus (comme c'est le cas après une vaccination). Cependant, partant du principe que des tests sérologiques ou autres tests pourraient dans le futur confirmer la présence ou l'absence d'immunité protectrice contre le SARS-CoV-2, des certificats immunitaires sont à l'étude. Ils pourraient être utilisés à des fins de vérification de présence ou absence d'immunité contre le virus en général ou dans des contextes spécifiques (par exemple pour voyager, pour des métiers à risque, etc.). De ce fait, nous souhaitons connaître votre avis sur de tels certificats dits "certificats immunitaires" en lien avec le SARS-CoV-2 pour la population générale.	
Veuillez insérer la date du jour	
Réponse possible pour les questions suivantes: Tout à fait d'accord, Plutôt d'accord, Neutre, Peu d'accord, Pas du tout d'accord	
Une présence d'immunité inciterait les gens à reprendre des activités auxquelles ils auraient renoncé (sorties, sport...)	
Une absence d'immunité inciterait les gens à prendre plus de mesures de précaution contre le virus comme:	Porter un masque Respecter les distances sociales Rester chez eux
Dans le cas où un test pourrait confirmer la présence ou absence d'immunité contre le SARS-CoV-2, un certificat immunitaire devrait être proposé à la population générale ?	
Dans le cas où un certificat immunitaire est mis en place par les autorités gouvernementales, dans quelle(s) situation(s) serait-il utile ?	Pour le montrer à son employeur Pour avoir le droit de travailler Avant de prendre l'avion Pour entrer dans un autre pays Pour participer à de grands rassemblements (concerts, matchs, etc.) Il n'y a aucun usage utile pour un certificat immunitaire Autre situation dans laquelle un certificat serait utile?

Pensez-vous qu'un employeur serait en droit de solliciter un certificat immunitaire si:	L'emploi nécessite un contact prolongé ou étroit avec des personnes infectées, augmentant le risque de l'employé d'attraper la maladie L'emploi nécessite un contact prolongé ou étroit avec les personnes en général (ex: policier, soins à domicile ou dans les établissements médicaux sociaux (EMS), etc.) L'aménagement du travail pour éviter la contagiosité est coûteux pour l'employeur (par ex: garder les distances)
Il y a un risque que des personnes sans immunité voudraient délibérément s'infecter pour pouvoir obtenir un certificat d'immunité.	
Il y a un risque de discrimination à l'encontre des personnes dont le certificat indiquerait qu'ils n'ont pas d'immunité.	
Si un vaccin contre la maladie COVID-19 devenait disponible	La vaccination devrait être obligatoire Un certificat immunitaire attestant de la vaccination ou de l'immunité protectrice contre le virus devrait être obligatoire
Choisir une des options	
Dans le cas où un certificat immunitaire est mis en place par les autorités gouvernementales, un tel certificat devrait être livré en:	Format papier Format digital Format papier et digital
II. Questions spécifiques pour les participants de SEROCov-POP	
Pourquoi avez-vous souhaité participer à l'étude de séroprévalence SEROCov-POP?	J'ai eu des symptômes de la maladie COVID-19 et souhaite savoir si j'ai développé des anticorps J'ai eu un test positif au SARS-CoV-2 et souhaite savoir si j'ai développé des anticorps J'ai eu un test négatif au SARS-CoV-2 mais souhaite quand même savoir si j'étais infecté Je souhaite savoir si j'ai développé des anticorps au SARS-CoV-2, alors que je n'ai pas eu de symptômes de la maladie COVID-19 (toux, fièvre etc.) Je souhaite savoir si ma famille a développé des anticorps au SARS-CoV-2 Je souhaite aider à l'avancement de la recherche autour de la maladie COVID-19 Autre, merci de préciser:
A quel résultat vous attendez-vous ?	Je pense plutôt avoir un test positif Je pense plutôt avoir un test négatif Je ne sais pas du tout
III. Questions spécifiques pour les sujets qui n'ont pas participé à SEROCov-POP mais qui ont répondu au questionnaire sur les certificats immunitaires	
Quelle était la ou les raisons pour lesquelles vous n'avez pas participé à l'étude SEROCov-POP ? (plusieurs réponses possibles)	J'étais malade au moment de l'invitation à participer à l'étude Je ne souhaitais pas sortir de mon confinement J'ai des difficultés à me déplacer Je n'avais pas le temps Je ne suis pas intéressé-e aux résultats de ces tests Je n'étais pas d'accord de recevoir mes résultats seulement à la fin de l'étude Je sais déjà que j'ai été infecté-e par le SARS-CoV-2 Je ne pense pas avoir été infecté-e par le SARS-CoV-2 Autre, merci de préciser:

Table S2: Comparison of characteristics of subjects who participated and did not participate in SEROCov-POP.		
	Serosurvey participants (n = 1425)	Non- serosurvey participants (n = 270)
Age		
Mean ± SD (years)	52.0 ± 15.1	56.1 ± 15.2
	n (%)	n (%)
Age categories (years)		
Less than 40	303 (21.3)	44 (16.3)
40–64	811 (56.9)	135 (50)
65 and above	311 (21.8)	91 (33.7)
Gender		
Female	740 (51.9)	125 (46.3)
Male	685 (48.1)	145 (53.7)
Education level		
Compulsory education	73 (5.1)	10 (3.7)
Apprenticeship	221 (15.5)	50 (18.5)
Upper secondary education	263 (18.5)	40 (14.8)
University	721 (50.7)	137 (50.7)
Doctorate	83 (5.8)	15 (5.6)
Does not wish to answer	NA	7 (2.6)
No diploma	NA	3 (1.1)
Other	61 (4.3)	8 (3)
Work status		
Retired	338 (23.8)	81 (30.2)
Student	97 (6.8)	10 (3.7)
Salaried	746 (52.5)	130 (48.5)
Independent	127 (8.9)	23 (8.6)
Unemployed	95 (6.7)	19 (7.1)
Disability	NA	1 (0.4)
Other	19 (1.3)	4 (1.5)
NA = not applicable; SD = standard deviation		

Table S3: Results stratified by age, gender, education level and work status (n = 1425).					
	Total	Age categories (years)			p-value
		Less than 40	40–64	65 and above	
	n (%)	n (%)	n (%)	n (%)	
The presence of antibodies will incite people to resume some activities (n = 1401)					
Agree or strongly agree	1156 (82.5)	255 (85.3)	647 (81.3)	254 (83)	0.507
Neutral	171 (12.2)	30 (10)	102 (12.8)	39 (12.7)	
Disagree or strongly disagree	74 (5.3)	14 (4.7)	47 (5.9)	13 (4.2)	
The absence of antibodies will incite people to wear masks (n = 1405)					
Agree or strongly agree	1063 (75.7)	207 (69)	607 (76.2)	249 (80.8)	0.010
Neutral	183 (13)	48 (16)	100 (12.5)	35 (11.4)	
Disagree or strongly disagree	159 (11.3)	45 (15)	90 (11.3)	24 (7.8)	
The absence of antibodies will incite people to respect social distancing (n = 1405)					
Agree or strongly agree	1228 (87.4)	246 (82)	707 (88.7)	275 (89.3)	0.014
Neutral	95 (6.8)	25 (8.3)	50 (6.3)	20 (6.5)	
Disagree or strongly disagree	82 (5.8)	29 (9.7)	40 (5)	13 (4.2)	
The absence of antibodies will incite people to stay home (n = 1404)					
Agree or strongly agree	584 (41.6)	114 (38)	329 (41.3)	141 (45.9)	0.319
Neutral	327 (23.3)	76 (25.3)	181 (22.7)	70 (22.8)	
Disagree or strongly disagree	493 (35.1)	110 (36.7)	287 (36)	96 (31.3)	
If antibodies confer immunity, a certificate should be proposed to the general population (n = 1400)					
Agree or strongly agree	840 (60)	164 (54.8)	469 (59.1)	207 (67.4)	0.026
Neutral	268 (19.1)	64 (21.4)	153 (19.3)	51 (16.6)	
Disagree or strongly disagree	292 (20.9)	71 (23.7)	172 (21.7)	49 (16)	
Certificate format (n = 1399)					
Paper format	225 (16.1)	29 (9.7)	121 (15.2)	75 (24.6)	<0.001
Digital format	389 (27.8)	98 (32.8)	234 (29.4)	57 (18.7)	
Paper and digital format	785 (56.1)	172 (57.5)	440 (55.3)	173 (56.7)	
A certificate is useful to show employer (n = 1389)					
Agree or strongly agree	540 (38.9)	123 (41)	301 (38)	116 (39.2)	<0.001
Neutral	303 (21.8)	53 (17.7)	156 (19.7)	94 (31.8)	
Disagree or strongly disagree	546 (39.3)	124 (41.3)	336 (42.4)	86 (29.1)	
A certificate is useful to have the right to work (n = 1388)					
Agree or strongly agree	443 (31.9)	104 (34.7)	231 (29.2)	108 (36.5)	<0.001
Neutral	291 (21)	49 (16.3)	159 (20.1)	83 (28)	
Disagree or strongly disagree	654 (47.1)	147 (49)	402 (50.8)	105 (35.5)	
A certificate is useful to take a plane (n = 1397)					
Agree or strongly agree	1,020 (73)	223 (74.3)	561 (70.7)	236 (77.6)	0.034
Neutral	163 (11.7)	32 (10.7)	93 (11.7)	38 (12.5)	
Disagree or strongly disagree	214 (15.3)	45 (15)	139 (17.5)	30 (9.9)	
A certificate is useful to enter a country (n = 1396)					
Agree or strongly agree	992 (71.1)	223 (74.3)	541 (68.3)	228 (75)	0.055
Neutral	184 (13.2)	32 (10.7)	111 (14)	41 (13.5)	
Disagree or strongly disagree	220 (15.8)	45 (15)	140 (17.7)	35 (11.5)	
A certificate is useful to participate in large gatherings (n = 1394)					
Agree or strongly agree	766 (54.9)	164 (54.7)	412 (52)	190 (63.1)	<0.001
Neutral	304 (21.8)	50 (16.7)	185 (23.3)	69 (22.9)	
Disagree or strongly disagree	324 (23.2)	86 (28.7)	196 (24.7)	42 (14)	

There is no use for a certificate (n = 1381)					
Agree or strongly agree	220 (15.9)	48 (16)	125 (15.9)	47 (16)	0.653
Neutral	354 (25.6)	71 (23.7)	214 (27.2)	69 (23.5)	
Disagree or strongly disagree	807 (58.4)	181 (60.3)	448 (56.9)	178 (60.5)	
An employer can ask for a certificate to protect employee in situations with high risk of infection (n = 1398)					
Agree or strongly agree	870 (62.2)	198 (66)	469 (59.1)	203 (66.6)	0.046
Neutral	193 (13.8)	44 (14.7)	113 (14.2)	36 (11.8)	
Disagree or strongly disagree	335 (24)	58 (19.3)	211 (26.6)	66 (21.6)	
An employer can ask for a certificate to protect the general public in situations of close contact (n = 1397)					
Agree or strongly agree	894 (64)	178 (59.3)	492 (62)	224 (73.7)	<0.001
Neutral	226 (16.2)	55 (18.3)	126 (15.9)	45 (14.8)	
Disagree or strongly disagree	277 (19.8)	67 (22.3)	175 (22.1)	35 (11.5)	
An employer can ask for a certificate if spatial distancing cannot be ensured in the workplace (n = 1396)					
Agree or strongly agree	563 (40.3)	86 (28.7)	326 (41.2)	151 (49.7)	<0.001
Neutral	303 (21.7)	75 (25)	150 (18.9)	78 (25.7)	
Disagree or strongly disagree	530 (38)	139 (46.3)	316 (39.9)	75 (24.7)	
Risk of deliberate infection (n = 1393)					
Agree or strongly agree	399 (28.6)	147 (49)	197 (25)	55 (18)	<0.001
Neutral	366 (26.3)	63 (21)	224 (28.4)	79 (25.9)	
Disagree or strongly disagree	628 (45.1)	90 (30)	367 (46.6)	171 (56.1)	
Risk of discrimination (n = 1396)					
Agree or strongly agree	945 (67.7)	227 (75.7)	538 (67.9)	180 (59.2)	<0.001
Neutral	209 (15)	24 (8)	124 (15.7)	61 (20.1)	
Disagree or strongly disagree	242 (17.3)	49 (16.3)	130 (16.4)	63 (20.7)	
If a vaccine became available, vaccination should be mandatory (n = 1403)					
Agree or strongly agree	769 (54.8)	163 (54.3)	413 (51.9)	193 (62.7)	0.003
Neutral	210 (15)	44 (14.7)	116 (14.6)	50 (16.2)	
Disagree or strongly disagree	424 (30.2)	93 (31)	266 (33.5)	65 (21.1)	
If a vaccine became available, a vaccination certificate should be mandatory (n = 1401)					
Agree or strongly agree	683 (48.8)	138 (46)	365 (46)	180 (58.6)	<0.001
Neutral	280 (20)	68 (22.7)	151 (19)	61 (19.9)	
Disagree or strongly disagree	438 (31.3)	94 (31.3)	278 (35)	66 (21.5)	

	Gender		p-value
	Female	Male	
	n (%)	n (%)	
The presence of antibodies will incite people to resume some activities			
Agree or strongly agree	593 (81.3)	563 (83.8)	0.466
Neutral	96 (13.2)	75 (11.2)	
Disagree or strongly disagree	40 (5.5)	34 (5.1)	
The absence of antibodies will incite people to wear masks			
Agree or strongly agree	571 (78.1)	492 (73)	0.063
Neutral	89 (12.2)	94 (13.9)	
Disagree or strongly disagree	71 (9.7)	88 (13.1)	
The absence of antibodies will incite people to respect social distancing			
Agree or strongly agree	648 (88.6)	580 (86.1)	0.199
Neutral	48 (6.6)	47 (7)	
Disagree or strongly disagree	35 (4.8)	47 (7)	
The absence of antibodies will incite people to stay home			
Agree or strongly agree	311 (42.6)	273 (40.5)	0.719
Neutral	166 (22.7)	161 (23.9)	
Disagree or strongly disagree	253 (34.7)	240 (35.6)	
If antibodies confer immunity, a certificate should be proposed to the general population			
Agree or strongly agree	424 (58.4)	416 (61.7)	0.067
Neutral	133 (18.3)	135 (20)	
Disagree or strongly disagree	169 (23.3)	123 (18.2)	
Certificate format			
Paper format	123 (16.9)	102 (15.2)	0.001
Digital format	171 (23.5)	218 (32.4)	
Paper and digital format	433 (59.6)	352 (52.4)	
A certificate is useful to show employer			
Agree or strongly agree	264 (36.5)	276 (41.4)	0.001
Neutral	141 (19.5)	162 (24.3)	
Disagree or strongly disagree	318 (44)	228 (34.2)	
A certificate is useful to have the right to work			
Agree or strongly agree	230 (31.8)	213 (32)	0.042
Neutral	134 (18.5)	157 (23.6)	
Disagree or strongly disagree	359 (49.7)	295 (44.4)	
A certificate is useful to take a plane			
Agree or strongly agree	520 (71.5)	500 (74.6)	0.126
Neutral	82 (11.3)	81 (12.1)	
Disagree or strongly disagree	125 (17.2)	89 (13.3)	
A certificate is useful to enter a country			
Agree or strongly agree	516 (71.1)	476 (71)	0.225
Neutral	87 (12)	97 (14.5)	
Disagree or strongly disagree	123 (16.9)	97 (14.5)	
A certificate is useful to participate in large gatherings			
Agree or strongly agree	384 (53)	382 (57)	0.328
Neutral	164 (22.7)	140 (20.9)	
Disagree or strongly disagree	176 (24.3)	148 (22.1)	

There is no use for a certificate			
Agree or strongly agree	119 (16.6)	101 (15.3)	0.011
Neutral	206 (28.7)	148 (22.4)	
Disagree or strongly disagree	394 (54.8)	413 (62.4)	
An employer can ask for a certificate to protect employee in situations with high risk of infection			
Agree or strongly agree	459 (63.1)	411 (61.3)	0.755
Neutral	99 (13.6)	94 (14)	
Disagree or strongly disagree	169 (23.2)	166 (24.7)	
An employer can ask for a certificate to protect the general public in situations of close contact			
Agree or strongly agree	462 (63.6)	432 (64.4)	0.859
Neutral	116 (16)	110 (16.4)	
Disagree or strongly disagree	148 (20.4)	129 (19.2)	
An employer can ask for a certificate if spatial distancing cannot be ensured in the workplace			
Agree or strongly agree	275 (37.9)	288 (43)	0.138
Neutral	167 (23)	136 (20.3)	
Disagree or strongly disagree	284 (39.1)	246 (36.7)	
Risk of deliberate infection			
Agree or strongly agree	206 (28.5)	193 (28.8)	0.991
Neutral	190 (26.3)	176 (26.3)	
Disagree or strongly disagree	327 (45.2)	301 (44.9)	
Risk of discrimination			
Agree or strongly agree	495 (68.5)	450 (66.9)	0.790
Neutral	107 (14.8)	102 (15.2)	
Disagree or strongly disagree	121 (16.7)	121 (18)	
If a vaccine became available, vaccination should be mandatory			
Agree or strongly agree	350 (47.9)	419 (62.3)	<0.001
Neutral	112 (15.3)	98 (14.6)	
Disagree or strongly disagree	268 (36.7)	156 (23.2)	
If a vaccine became available, a vaccination certificate should be mandatory			
Agree or strongly agree	320 (43.8)	363 (54.1)	<0.001
Neutral	147 (20.1)	133 (19.8)	
Disagree or strongly disagree	263 (36)	175 (26.1)	

	Education level						p-value
	Compulsory education	Apprenticeship	Upper secondary education	University	Doctorate	Other education level	
	n (%)	n (%)	n (%)	n (%)	n (%)	n (%)	
The presence of antibodies will incite people to resume some activities							
Agree or strongly agree	59 (83.1)	177 (80.8)	211 (81.8)	585 (82.7)	70 (84.3)	51 (85)	0.994
Neutral	9 (12.7)	31 (14.2)	32 (12.4)	84 (11.9)	8 (9.6)	7 (11.7)	
Disagree or strongly disagree	3 (4.2)	11 (5)	15 (5.8)	38 (5.4)	5 (6)	2 (3.3)	
The absence of antibodies will incite people to wear masks							
Agree or strongly agree	63 (87.5)	159 (72.6)	201 (77.6)	529 (74.6)	60 (72.3)	49 (81.7)	0.155
Neutral	5 (6.9)	31 (14.2)	39 (15.1)	91 (12.8)	11 (13.3)	6 (10)	
Disagree or strongly disagree	4 (5.6)	29 (13.2)	19 (7.3)	89 (12.6)	12 (14.5)	5 (8.3)	
The absence of antibodies will incite people to respect social distancing							
Agree or strongly agree	67 (93.1)	189 (86.3)	225 (86.9)	621 (87.6)	72 (86.7)	51 (85)	0.608
Neutral	3 (4.2)	13 (5.9)	22 (8.5)	45 (6.3)	8 (9.6)	4 (6.7)	
Disagree or strongly disagree	2 (2.8)	17 (7.8)	12 (4.6)	43 (6.1)	3 (3.6)	5 (8.3)	
The absence of antibodies will incite people to stay home							
Agree or strongly agree	38 (52.8)	89 (40.6)	107 (41.5)	294 (41.5)	32 (38.6)	24 (40)	0.165
Neutral	18 (25)	55 (25.1)	70 (27.1)	145 (20.5)	20 (24.1)	17 (28.3)	
Disagree or strongly disagree	16 (22.2)	75 (34.2)	81 (31.4)	270 (38.1)	31 (37.3)	19 (31.7)	
If antibodies confer immunity, a certificate should be proposed to the general population							
Agree or strongly agree	46 (63.9)	146 (66.7)	158 (61)	407 (57.7)	38 (46.3)	44 (73.3)	0.002
Neutral	15 (20.8)	42 (19.2)	55 (21.2)	134 (19)	15 (18.3)	6 (10)	
Disagree or strongly disagree	11 (15.3)	31 (14.2)	46 (17.8)	164 (23.3)	29 (35.4)	10 (16.7)	
Certificate format							
Paper format	16 (22.5)	39 (17.8)	45 (17.4)	110 (15.6)	11 (13.3)	4 (6.8)	0.547
Digital format	18 (25.4)	57 (26)	72 (27.8)	199 (28.2)	26 (31.3)	15 (25.4)	
Paper and digital format	37 (52.1)	123 (56.2)	142 (54.8)	396 (56.2)	46 (55.4)	40 (67.8)	
A certificate is useful to show employer							
Agree or strongly agree	35 (51.5)	95 (43.8)	105 (40.9)	249 (35.5)	30 (36.1)	24 (40.7)	0.004
Neutral	19 (27.9)	49 (22.6)	61 (23.7)	141 (20.1)	16 (19.3)	17 (28.8)	
Disagree or strongly disagree	14 (20.6)	73 (33.6)	91 (35.4)	312 (44.4)	37 (44.6)	18 (30.5)	
A certificate is useful to have the right to work							
Agree or strongly agree	32 (47.1)	75 (34.7)	93 (36.2)	203 (28.9)	12 (14.5)	27 (45.8)	<0.001
Neutral	16 (23.5)	51 (23.6)	60 (23.3)	134 (19.1)	18 (21.7)	12 (20.3)	
Disagree or strongly disagree	20 (29.4)	90 (41.7)	104 (40.5)	365 (52)	53 (63.9)	20 (33.9)	
A certificate is useful to take a plane							
Agree or strongly agree	55 (79.7)	179 (81.7)	201 (77.9)	482 (68.3)	54 (65.1)	47 (79.7)	0.004
Neutral	7 (10.1)	15 (6.8)	25 (9.7)	97 (13.7)	14 (16.9)	5 (8.5)	
Disagree or strongly disagree	7 (10.1)	25 (11.4)	32 (12.4)	127 (18)	15 (18.1)	7 (11.9)	
A certificate is useful to enter a country							
Agree or strongly agree	56 (81.2)	168 (76.7)	190 (73.6)	480 (68.1)	50 (60.2)	46 (78)	0.043
Neutral	8 (11.6)	23 (10.5)	32 (12.4)	100 (14.2)	13 (15.7)	7 (11.9)	
Disagree or strongly disagree	5 (7.2)	28 (12.8)	36 (14)	125 (17.7)	20 (24.1)	6 (10.2)	
A certificate is useful to participate in large gatherings							
Agree or strongly agree	42 (61.8)	132 (60.6)	169 (65.5)	343 (48.7)	43 (51.8)	36 (61)	<0.001
Neutral	16 (23.5)	47 (21.6)	46 (17.8)	161 (22.8)	18 (21.7)	15 (25.4)	
Disagree or strongly disagree	10 (14.7)	39 (17.9)	43 (16.7)	201 (28.5)	22 (26.5)	8 (13.6)	

There is no use for a certificate							
Agree or strongly agree	8 (11.3)	29 (13.4)	31 (12.2)	118 (17)	23 (27.7)	10 (16.9)	0.080
Neutral	18 (25.4)	59 (27.3)	74 (29.1)	166 (23.9)	18 (21.7)	18 (30.5)	
Disagree or strongly disagree	45 (63.4)	128 (59.3)	149 (58.7)	411 (59.1)	42 (50.6)	31 (52.5)	
An employer can ask for a certificate to protect employee in situations with high risk of infection							
Agree or strongly agree	52 (74.3)	140 (64.2)	173 (67.1)	417 (59)	48 (57.8)	38 (64.4)	0.002
Neutral	10 (14.3)	32 (14.7)	43 (16.7)	92 (13)	7 (8.4)	9 (15.3)	
Disagree or strongly disagree	8 (11.4)	46 (21.1)	42 (16.3)	198 (28)	28 (33.7)	12 (20.3)	
An employer can ask for a certificate to protect the general public in situations of close contact							
Agree or strongly agree	50 (71.4)	152 (69.7)	165 (64)	440 (62.3)	45 (54.2)	40 (67.8)	<0.001
Neutral	10 (14.3)	36 (16.5)	57 (22.1)	101 (14.3)	11 (13.3)	11 (18.6)	
Disagree or strongly disagree	10 (14.3)	30 (13.8)	36 (14)	165 (23.4)	27 (32.5)	8 (13.6)	
An employer can ask for a certificate if workplace cannot ensure spatial distancing							
Agree or strongly agree	34 (48.6)	118 (54.1)	110 (42.6)	241 (34.2)	29 (34.9)	28 (47.5)	<0.001
Neutral	20 (28.6)	47 (21.6)	64 (24.8)	144 (20.4)	13 (15.7)	15 (25.4)	
Disagree or strongly disagree	16 (22.9)	53 (24.3)	84 (32.6)	320 (45.4)	41 (49.4)	16 (27.1)	
Risk of deliberate infection							
Agree or strongly agree	17 (24.6)	45 (20.6)	74 (28.7)	225 (32)	24 (28.9)	14 (23.7)	<0.001
Neutral	22 (31.9)	73 (33.5)	88 (34.1)	145 (20.6)	13 (15.7)	24 (40.7)	
Disagree or strongly disagree	30 (43.5)	100 (45.9)	96 (37.2)	333 (47.4)	46 (55.4)	21 (35.6)	
Risk of discrimination							
Agree or strongly agree	38 (54.3)	123 (56.4)	165 (64.2)	516 (73.1)	61 (73.5)	41 (69.5)	<0.001
Neutral	12 (17.1)	45 (20.6)	41 (16)	90 (12.7)	8 (9.6)	12 (20.3)	
Disagree or strongly disagree	20 (28.6)	50 (22.9)	51 (19.8)	100 (14.2)	14 (16.9)	6 (10.2)	
If a vaccine became available, vaccination should be mandatory							
Agree or strongly agree	54 (76.1)	121 (55.3)	137 (52.9)	375 (52.9)	43 (51.8)	37 (62.7)	0.004
Neutral	6 (8.5)	43 (19.6)	46 (17.8)	95 (13.4)	13 (15.7)	7 (11.9)	
Disagree or strongly disagree	11 (15.5)	55 (25.1)	76 (29.3)	239 (33.7)	27 (32.5)	15 (25.4)	
If a vaccine became available, a vaccination certificate should be mandatory							
Agree or strongly agree	46 (64.8)	113 (51.8)	129 (49.8)	325 (45.9)	36 (43.4)	33 (55.9)	0.007
Neutral	13 (18.3)	50 (22.9)	59 (22.8)	129 (18.2)	17 (20.5)	11 (18.6)	
Disagree or strongly disagree	12 (16.9)	55 (25.2)	71 (27.4)	254 (35.9)	30 (36.1)	15 (25.4)	

	Work status						p-value
	Student	Salaried	Independent	Unemployed	Retired	Other work	
	n (%)	n (%)	n (%)	n (%)	n (%)	n (%)	
The presence of antibodies will incite people to resume some activities							
Agree or strongly agree	83 (87.4)	604 (82)	95 (79.8)	75 (79.8)	282 (84.4)	14 (73.7)	0.153
Neutral	9 (9.5)	88 (11.9)	20 (16.8)	11 (11.7)	41 (12.3)	2 (10.5)	
Disagree or strongly disagree	3 (3.2)	45 (6.1)	4 (3.4)	8 (8.5)	11 (3.3)	3 (15.8)	
The absence of antibodies will incite people to wear masks							
Agree or strongly agree	67 (70.5)	548 (74.3)	92 (76.7)	70 (74.5)	271 (80.7)	13 (68.4)	0.283
Neutral	15 (15.8)	94 (12.7)	19 (15.8)	15 (16)	37 (11)	3 (15.8)	
Disagree or strongly disagree	13 (13.7)	96 (13)	9 (7.5)	9 (9.6)	28 (8.3)	3 (15.8)	
The absence of antibodies will incite people to respect social distancing							
Agree or strongly agree	75 (78.9)	653 (88.5)	98 (81.7)	83 (88.3)	302 (89.9)	14 (73.7)	0.032
Neutral	9 (9.5)	43 (5.8)	14 (11.7)	7 (7.4)	20 (6)	2 (10.5)	
Disagree or strongly disagree	11 (11.6)	42 (5.7)	8 (6.7)	4 (4.3)	14 (4.2)	3 (15.8)	
The absence of antibodies will incite people to stay home							
Agree or strongly agree	37 (38.9)	304 (41.2)	47 (39.2)	39 (41.5)	152 (45.2)	5 (26.3)	0.224
Neutral	26 (27.4)	165 (22.4)	38 (31.7)	23 (24.5)	70 (20.8)	3 (15.8)	
Disagree or strongly disagree	32 (33.7)	268 (36.4)	35 (29.2)	32 (34)	114 (33.9)	11 (57.9)	
If antibodies confer immunity, a certificate should be proposed to the general population							
Agree or strongly agree	50 (52.6)	419 (56.9)	75 (63)	56 (59.6)	225 (67.4)	14 (73.7)	<0.001
Neutral	26 (27.4)	142 (19.3)	21 (17.6)	19 (20.2)	58 (17.4)	1 (5.3)	
Disagree or strongly disagree	19 (20)	175 (23.8)	23 (19.3)	19 (20.2)	51 (15.3)	4 (21.1)	
Certificate format							
Paper format	11 (11.7)	108 (14.6)	13 (10.9)	10 (10.6)	78 (23.5)	5 (26.3)	<0.001
Digital format	25 (26.6)	236 (32)	31 (26.1)	27 (28.7)	63 (19)	5 (26.3)	
Paper and digital format	58 (61.7)	394 (53.4)	75 (63)	57 (60.6)	191 (57.5)	9 (47.4)	
A certificate is useful to show employer							
Agree or strongly agree	43 (45.3)	277 (37.6)	50 (41.7)	36 (38.3)	123 (38.3)	9 (47.4)	0.005
Neutral	17 (17.9)	135 (18.3)	32 (26.7)	23 (24.5)	92 (28.7)	4 (21.1)	
Disagree or strongly disagree	35 (36.8)	325 (44.1)	38 (31.7)	35 (37.2)	106 (33)	6 (31.6)	
A certificate is useful to have the right to work							
Agree or strongly agree	42 (44.2)	216 (29.3)	41 (34.2)	26 (27.7)	112 (34.9)	5 (26.3)	<0.001
Neutral	10 (10.5)	137 (18.6)	28 (23.3)	24 (25.5)	88 (27.4)	4 (21.1)	
Disagree or strongly disagree	43 (45.3)	383 (52)	51 (42.5)	44 (46.8)	121 (37.7)	10 (52.6)	
A certificate is useful to take a plane							
Agree or strongly agree	68 (71.6)	515 (69.9)	92 (76.7)	73 (77.7)	258 (78.4)	12 (63.2)	0.025
Neutral	11 (11.6)	86 (11.7)	17 (14.2)	7 (7.4)	39 (11.9)	3 (15.8)	
Disagree or strongly disagree	16 (16.8)	136 (18.5)	11 (9.2)	14 (14.9)	32 (9.7)	4 (21.1)	
A certificate is useful to enter a country							
Agree or strongly agree	68 (71.6)	503 (68.3)	83 (69.2)	73 (77.7)	249 (75.7)	14 (73.7)	0.108
Neutral	13 (13.7)	96 (13)	18 (15)	7 (7.4)	46 (14)	3 (15.8)	
Disagree or strongly disagree	14 (14.7)	137 (18.6)	19 (15.8)	14 (14.9)	34 (10.3)	2 (10.5)	
A certificate is useful to participate in large gatherings							
Agree or strongly agree	54 (56.8)	379 (51.4)	67 (55.8)	48 (51.1)	211 (64.7)	6 (31.6)	<0.001
Neutral	17 (17.9)	157 (21.3)	31 (25.8)	22 (23.4)	70 (21.5)	6 (31.6)	
Disagree or strongly disagree	24 (25.3)	201 (27.3)	22 (18.3)	24 (25.5)	45 (13.8)	7 (36.8)	

There is no use for a certificate							
Agree or strongly agree	11 (11.6)	131 (17.9)	14 (11.8)	10 (10.8)	51 (16)	2 (10.5)	0.643
Neutral	24 (25.3)	181 (24.7)	33 (27.7)	27 (29)	82 (25.7)	6 (31.6)	
Disagree or strongly disagree	60 (63.2)	421 (57.4)	72 (60.5)	56 (60.2)	186 (58.3)	11 (57.9)	
An employer can ask for a certificate to protect employee in situations with high risk of infection							
Agree or strongly agree	67 (70.5)	436 (59.2)	80 (66.7)	61 (64.9)	214 (64.8)	10 (52.6)	0.074
Neutral	14 (14.7)	100 (13.6)	19 (15.8)	17 (18.1)	40 (12.1)	3 (15.8)	
Disagree or strongly disagree	14 (14.7)	201 (27.3)	21 (17.5)	16 (17)	76 (23)	6 (31.6)	
An employer can ask for a certificate to protect the general public in situations of close contact							
Agree or strongly agree	57 (60)	449 (60.9)	80 (66.7)	61 (64.9)	233 (70.8)	12 (63.2)	0.045
Neutral	15 (15.8)	117 (15.9)	19 (15.8)	18 (19.1)	53 (16.1)	4 (21.1)	
Disagree or strongly disagree	23 (24.2)	171 (23.2)	21 (17.5)	15 (16)	43 (13.1)	3 (15.8)	
An employer can ask for a certificate if workplace cannot ensure spatial distancing							
Agree or strongly agree	30 (31.6)	274 (37.2)	56 (46.7)	38 (40.4)	151 (45.9)	11 (57.9)	<0.001
Neutral	23 (24.2)	139 (18.9)	27 (22.5)	25 (26.6)	86 (26.1)	3 (15.8)	
Disagree or strongly disagree	42 (44.2)	323 (43.9)	37 (30.8)	31 (33)	92 (28)	5 (26.3)	
Risk of deliberate infection							
Agree or strongly agree	54 (56.8)	219 (29.8)	34 (28.8)	19 (20.4)	67 (20.3)	6 (31.6)	<0.001
Neutral	17 (17.9)	197 (26.8)	33 (28)	32 (34.4)	80 (24.2)	6 (31.6)	
Disagree or strongly disagree	24 (25.3)	319 (43.4)	51 (43.2)	42 (45.2)	183 (55.5)	7 (36.8)	
Risk of discrimination							
Agree or strongly agree	77 (81.1)	506 (68.8)	81 (67.5)	61 (65.6)	206 (62.4)	13 (68.4)	0.070
Neutral	6 (6.3)	99 (13.5)	18 (15)	18 (19.4)	64 (19.4)	3 (15.8)	
Disagree or strongly disagree	12 (12.6)	131 (17.8)	21 (17.5)	14 (15.1)	60 (18.2)	3 (15.8)	
If a vaccine became available, vaccination should be mandatory							
Agree or strongly agree	65 (68.4)	364 (49.3)	65 (54.2)	53 (56.4)	210 (62.9)	10 (52.6)	<0.001
Neutral	12 (12.6)	122 (16.5)	14 (11.7)	8 (8.5)	53 (15.9)	1 (5.3)	
Disagree or strongly disagree	18 (18.9)	252 (34.1)	41 (34.2)	33 (35.1)	71 (21.3)	8 (42.1)	
If a vaccine became available, a vaccination certificate should be mandatory							
Agree or strongly agree	48 (50.5)	317 (43)	56 (46.7)	51 (54.3)	201 (60.4)	9 (47.4)	<0.001
Neutral	24 (25.3)	152 (20.6)	20 (16.7)	15 (16)	64 (19.2)	4 (21.1)	
Disagree or strongly disagree	23 (24.2)	268 (36.4)	44 (36.7)	28 (29.8)	68 (20.4)	6 (31.6)	

Table S4: Comparison of results between subjects who participated and did not participate to SERoCoV-POP but answered the questionnaire on immunity certificates.			
	Serosurvey participants	Non-Serosurvey participants	p-value
	n (%)	n (%)	
The presence of antibodies will incite people to resume some activities			
Agree or strongly agree	1156 (82.5)	202 (74.8)	0.002
Neutral	171 (12.2)	55 (20.4)	
Disagree or strongly disagree	74 (5.3)	13 (4.8)	
The absence of antibodies will incite people to wear masks			
Agree or strongly agree	1063 (75.7)	234 (86.7)	<0.001
Neutral	183 (13)	23 (8.5)	
Disagree or strongly disagree	159 (11.3)	13 (4.8)	
The absence of antibodies will incite people to respect social distancing			
Agree or strongly agree	1228 (87.4)	238 (88.8)	0.363
Neutral	95 (6.8)	20 (7.5)	
Disagree or strongly disagree	82 (5.8)	10 (3.7)	
The absence of antibodies will incite people to stay home			
Agree or strongly agree	584 (41.6)	106 (39.7)	0.008
Neutral	327 (23.3)	85 (31.8)	
Disagree or strongly disagree	493 (35.1)	76 (28.5)	
A certificate is useful to show employer			
Agree or strongly agree	540 (38.9)	120 (47.1)	<0.001
Neutral	303 (21.8)	71 (27.8)	
Disagree or strongly disagree	546 (39.3)	64 (25.1)	
A certificate is useful to have the right to work			
Agree or strongly agree	443 (31.9)	125 (48.6)	<0.001
Neutral	291 (21)	55 (21.4)	
Disagree or strongly disagree	654 (47.1)	77 (30)	
A certificate is useful to take a plane			
Agree or strongly agree	1020 (73)	194 (73.5)	0.918
Neutral	163 (11.7)	32 (12.1)	
Disagree or strongly disagree	214 (15.3)	38 (14.4)	
A certificate is useful to enter a country			
Agree or strongly agree	992 (71.1)	197 (74.6)	0.497
Neutral	184 (13.2)	31 (11.7)	
Disagree or strongly disagree	220 (15.8)	36 (13.6)	
A certificate is useful to participate in large gatherings			
Agree or strongly agree	766 (54.9)	150 (57.3)	0.326
Neutral	304 (21.8)	62 (23.7)	
Disagree or strongly disagree	324 (23.2)	50 (19.1)	
There is no use for a certificate			
Agree or strongly agree	220 (15.9)	45 (17.2)	0.005
Neutral	354 (25.6)	90 (34.5)	
Disagree or strongly disagree	807 (58.4)	126 (48.3)	
Risk of deliberate infection			
Agree or strongly agree	399 (28.6)	56 (20.7)	0.020
Neutral	366 (26.3)	85 (31.5)	
Disagree or strongly disagree	628 (45.1)	129 (47.8)	

Risk of discrimination			
Agree or strongly agree	945 (67.7)	139 (51.7)	<0.001
Neutral	209 (15)	76 (28.3)	
Disagree or strongly disagree	242 (17.3)	54 (20.1)	
If a vaccine became available, vaccination should be mandatory			
Agree or strongly agree	769 (54.8)	160 (59.3)	0.009
Neutral	210 (15)	52 (19.3)	
Disagree or strongly disagree	424 (30.2)	58 (21.5)	
If a vaccine became available, a vaccination certificate should be mandatory			
Agree or strongly agree	683 (48.8)	142 (53)	0.123
Neutral	280 (20)	59 (22)	
Disagree or strongly disagree	438 (31.3)	67 (25)	