

ONE WORLD

# THE PHANTOM HERD IMMUNITY TO COVID-19

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When most of a population is immune to an infectious disease either by natural infection or by vaccination, this provides indirect protection — or herd immunity — to those who are not immune to the disease.

A positive antibody response does not necessarily mean that there is immunity but nevertheless it may give a first indication how many individuals may have had contact with a virus. Be aware of several infodemic websites on seroprevalence. Also note that most information is distributed by news agencies, press offices and preprints only bypassing usual standards in science. Unfortunately also most tests have [not been properly standardized](#).

COUNTRY	DATE	N	REPRESENTATIVE	ANTIBODY PREVALENCE %	METHOD	LINK
Wuhan, China	2Apr20	1.401	no	10	?	<a href="#">journal</a>
Robbio, Italy	6Apr20	2.000?	no?	13.5	?	<a href="#">link</a> to Ref 24 by <a href="#">Bendavid</a> not working
Telluride, USA	8Apr20	986	?	0.8	?	<a href="#">newspaper</a>
Santa Clara, USA	17Apr20	3.330	no (Facebook)	1.5	Premier Biotech, Minneapolis	<a href="#">medrxiv</a>
Netherlands	15Apr20	7.361	no (plasma donors)	3.1	Wantai Biological Pharmacy	<a href="#">NIH</a>
Los Angeles, USA	20Apr20	863	yes?	4.1	?	<a href="#">press release</a>
Trieste, Italy	22Apr20	727	no (clinic staff)	17.2	Wantai SARS-CoV-2 Ab Rapid Test	<a href="#">medrxiv</a>
Brevard, USA	24Apr20	1000	no?	1.0	?	<a href="#">newspaper</a>
Miami, USA	14Apr20	1.800	yes	4.4-7.9	?	<a href="#">press release</a>
Scotland, GB	17Apr20	1.000	no (blood donors)	1.0	neutralisation assay	<a href="#">medrxiv</a>
Chelsea, USA	17Apr20	200	no (passengers)	32	?	<a href="#">newspaper</a> via <a href="#">Science</a>
New York, USA	27Apr20	7.500?	?	15.0	?	<a href="#">newspaper</a>
Denmark	28Apr20	9,496	no (blood donors)	1.7	Livzon Diagnostics IgM/IgG	<a href="#">medrxiv</a>
Germany	May20 (weekly)	1.342	yes	1.0	?	<a href="#">RKI</a>
Iran	1May20	551	yes	22	VivaDiag COVID-19 VivaCheck	<a href="#">medrxiv</a>
Barcelona, Spain	2May20	578	no (healthcare worker)	9.3	Luminex / Krammer	<a href="#">medrxiv</a>
Gangelt, Germany	4May20	919	no (hotspot)	14.1	Euroimmun?	<a href="#">UK Bonn</a>
Padova, Italy	1May20	133	no (health care worker)	5.3	Chemiluminescence	<a href="#">medrxiv</a>
San Miguel County, USA	1May20	5.455	?	0.5	UB?	<a href="#">website</a>
Philadelphia, USA	9May20	237	no (patients)	5.9	own ELISA / Florian Krammer	<a href="#">researchsquare</a>
Boise, USA	7May20	4.856	no (self selected)	1.8	Abbott SARS-CoV-2 IgG	<a href="#">journal</a>
Kobe, Japan	5May20	1.000	no (outpatients)	3.3	RC-NC002, KURABO	<a href="#">medrxiv</a>
Wake Forest, USA	8May20	676	no (former patients)	2.2	?	<a href="#">newspaper</a>
Lausanne, Schweiz	6May20 (weekly)	1.335	yes	3.1, 6.1, 9.7	Euroimmun	<a href="#">medrxiv</a>
Brazil	10May20	4.188	yes	0.05, 0.13	Wondfo Biotech	medrxiv<7a>
Singapore	12May20	32.000	no (workers in dorms)	?	?	<a href="#">newspaper</a>
Berlin, Germany	13May20	5.000 / 7.500	no (Charité staff)	2.3, 0.3	?	<a href="#">Ärzteblatt</a>
Spain	15May20	60.000	yes (?)	5.0	?	<a href="#">Reuters</a>
Cambridge, UK	15May20	1.032	no (health care worker)	3.0	own protocol	<a href="#">medrxiv</a>
Hannover, Germany	18May20	217	no (health care worker)	1.0	Euroimmun	<a href="#">medrxiv</a>
Stockhom, Sweden	19May20	1.104	yes?	7.3	?	<a href="#">newspaper</a>
Birmingham, UK	22May20	554	no (health care worker=	24.4	high-sensitivity ELISA developed in-house	<a href="#">medrxiv</a>

There is [preprint](#) that lists some studies that I could not locate so far.

Prevalences should NOT be compared [for methodological reasons](#).

No idea from where the [NYT data originate](#).