Number of infected cases of COVID-19 (estimates for April 20th)

	ENECOVID19	cCFR-based	Surveys
	(1)	(2)	(3)
Andalucía	3.42%	1.81%	4.35%
Aragón	6.20%	7.50%	4.84%
Asturias	2.28%	2.95%	3.25%
Balears	3.04%	1.96%	4.57%
Canarias	2.28%	0.75%	3.70%
Cantabria	4.05%	4.20%	4.83%
Castilla León	9.11%	10.48%	7.39%
Castilla-La_Mancha	13.67%	16.14%	11.10%
Cataluña	7.47%	8.74%	5.72%
Ceuta	1.39%	0.77%	
Com Valenciana	3.16%	3.29%	4.18%
Extremadura	3.80%	5.91%	4.69%
Galicia	2.66%	1.95%	5.74%
Madrid	14.30%	16.17%	10.64%
Melilla	2.41%	0.34%	
Murcia	1.77%	1.15%	2.89%
Navarra	7.34%	9.19%	6.55%
País_Vasco	5.06%	7.55%	7.83%
Rioja,_La	4.18%	14.77%	6.08%
España	6.33%	6.54%	6.41%

ENECOVID19 vs cCFR-based and Surveys

(1) Ratio of infected cases derived from the ENECOVID19 study http://www.ciencia.gob.es/stfls/MICINN/Ministerio/FICHEROS/ENECOVID_Informe_preliminar_cierre_primera_ronda_13Mayo2020.pdf (page 10). The study run from April 27th-May 11th on 60,897 persons. These people were tested for antibodies with IgG tests with sensitivity 79% and specificity 100%. The ratio of positives found in the study underestimates the number of infected cases, due to the 79% sensitivity. This is corrected here dividing the ratio of positives reported by 0.79

(2) Ratio of infected cases derived from the cCFR computed from confirmed cases and fatalities. The cCFR allows estimating the ratio of symptomatic cases as described in https://arxiv.org/abs/2005.12783 . Since the ENECOVID19 study has found that 34% of the cases are asymptomatic, these estimates are corrected (to include the 34% of asymptomatic) dividing by 0.66. The values shown are the estimated number of infected on April 20th. This date is chosen to take into account the 2-3 weeks that infected cases take to show IgG antibodies. For more details, please see https://arxiv.org/abs/2005.12783

(3) Ratio of infected cases derived from the responses to the survey https://coronasurveys.org/. The survey responses allows estimating the ratio of symptomatic cases using the estimator given in https://arxiv.org/abs/2005.12783 . As in (2), these estimates are corrected (to include the 34% of asymptomatic) dividing by 0.66. The values shown are the estimated number of infected on April 20th. For more details, please see https://arxiv.org/abs/2005.12783