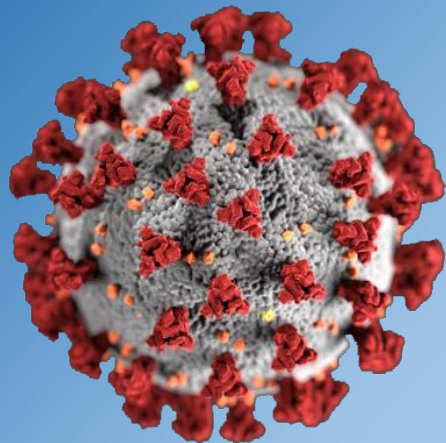
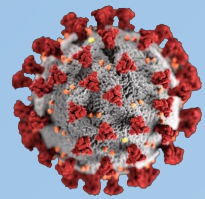


Spain from the frontlines



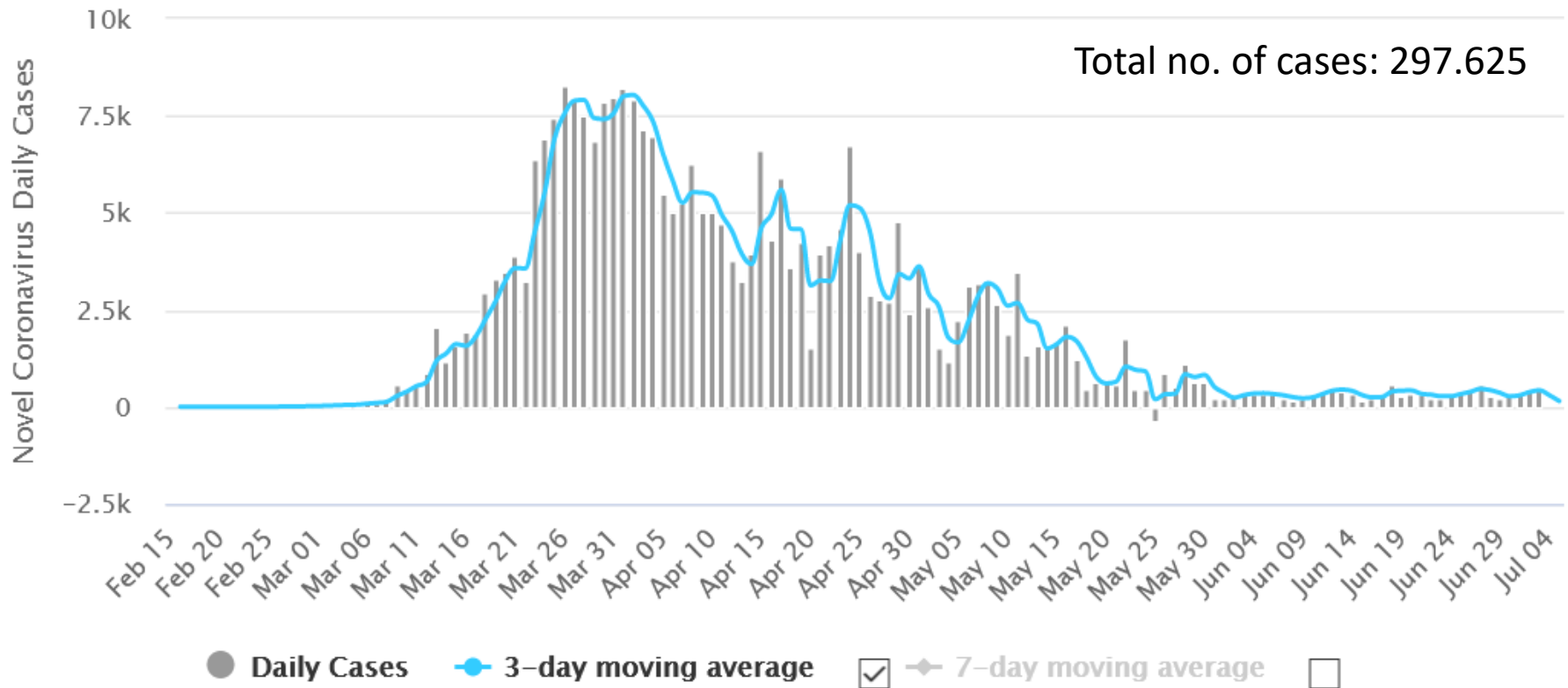
Jesús Rodríguez-Baño, MD, PhD, FESCMID
University Hospital Virgen Macarena, University of Sevilla
Biomedicines Institute of Sevilla (IBiS)
Spanish Network for Research in Infectious Diseases (REIPI)

Spain, daily new cases

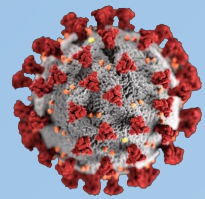


Daily New Cases

Cases per Day
Data as of 0:00 GMT+0

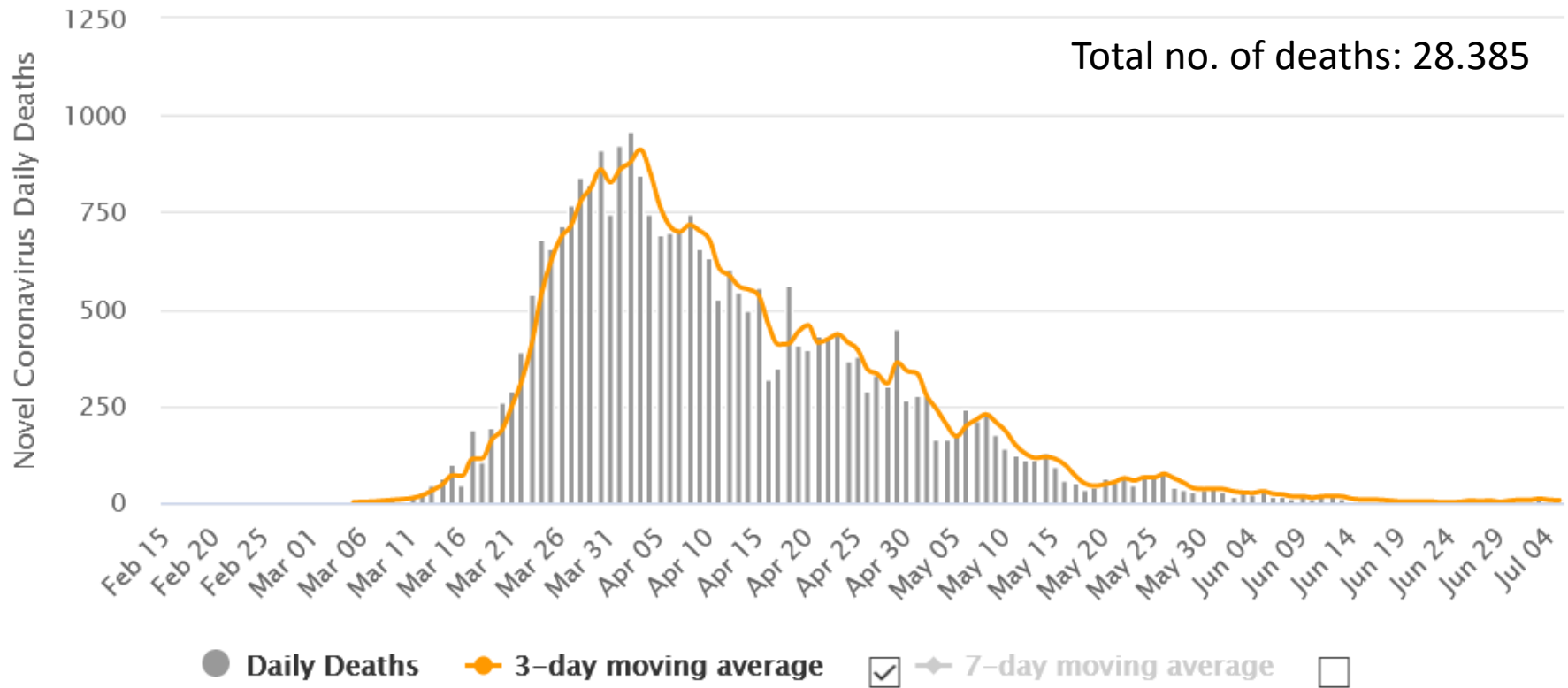


Spain, daily deaths

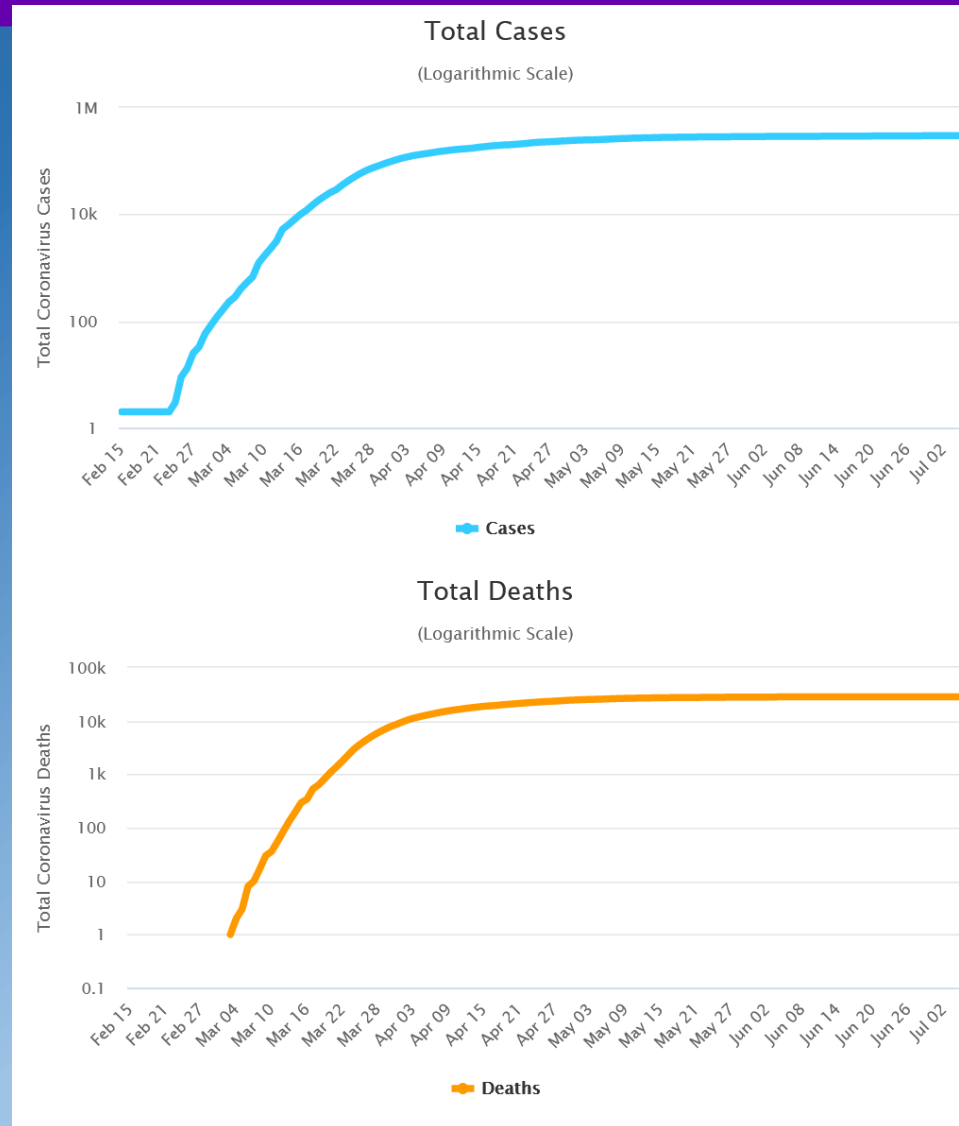
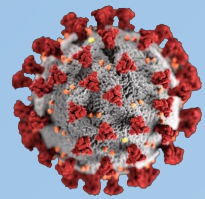


Daily Deaths

Deaths per Day
Data as of 0:00 GMT+8



Spain, cumulative cases and deaths

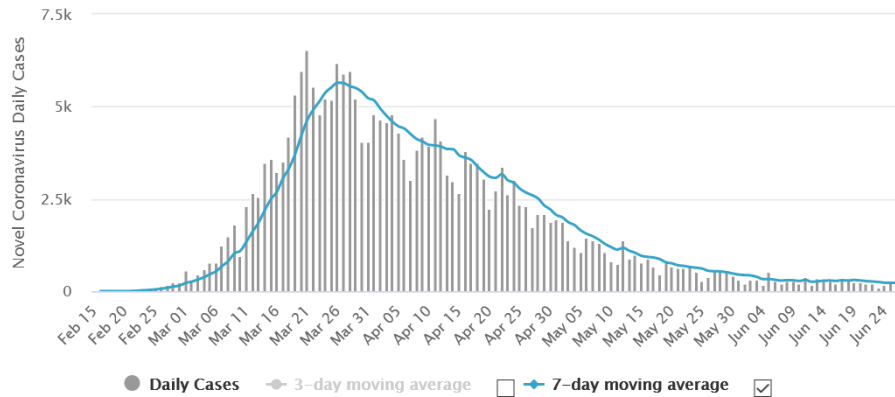


Source: www.woldometers.info (6 July 2020)

Italy

Daily New Cases

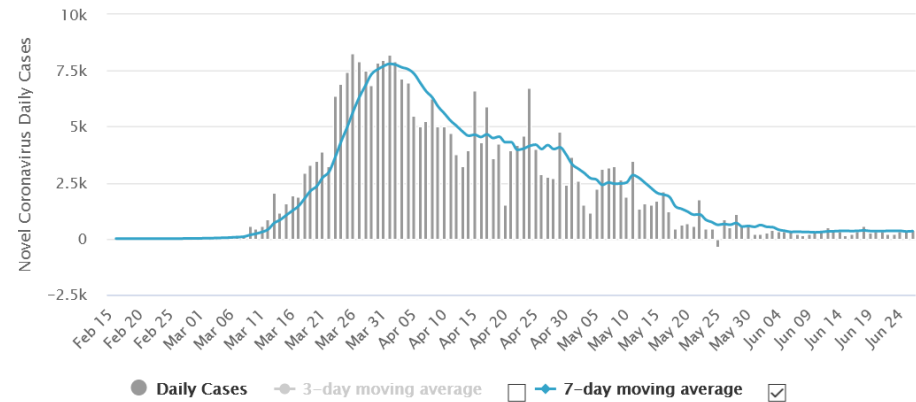
Cases per Day
Data as of 0:00 GMT+0



Spain

Daily New Cases

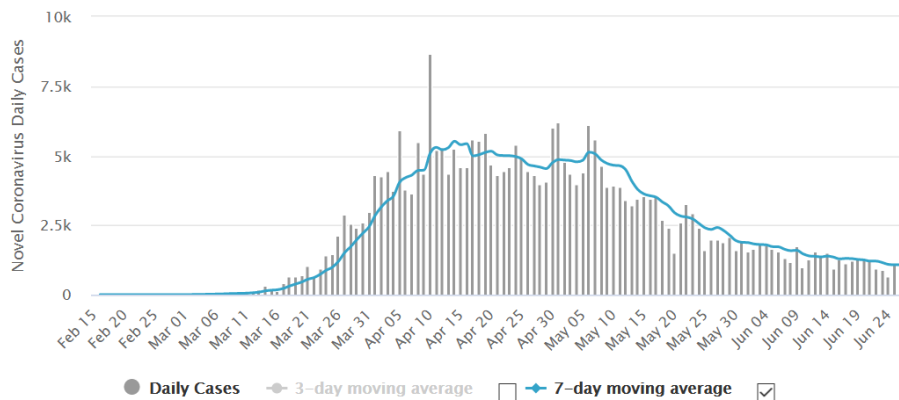
Cases per Day
Data as of 0:00 GMT+0



UK

Daily New Cases

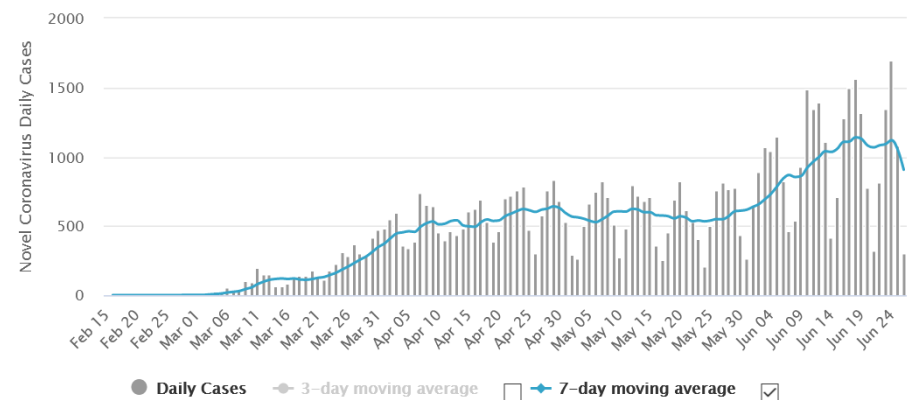
Cases per Day
Data as of 0:00 GMT+0

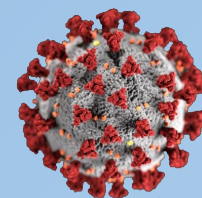


Sweden

Daily New Cases

Cases per Day
Data as of 0:00 GMT+0

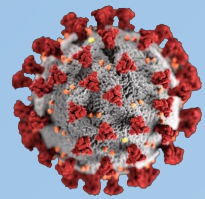




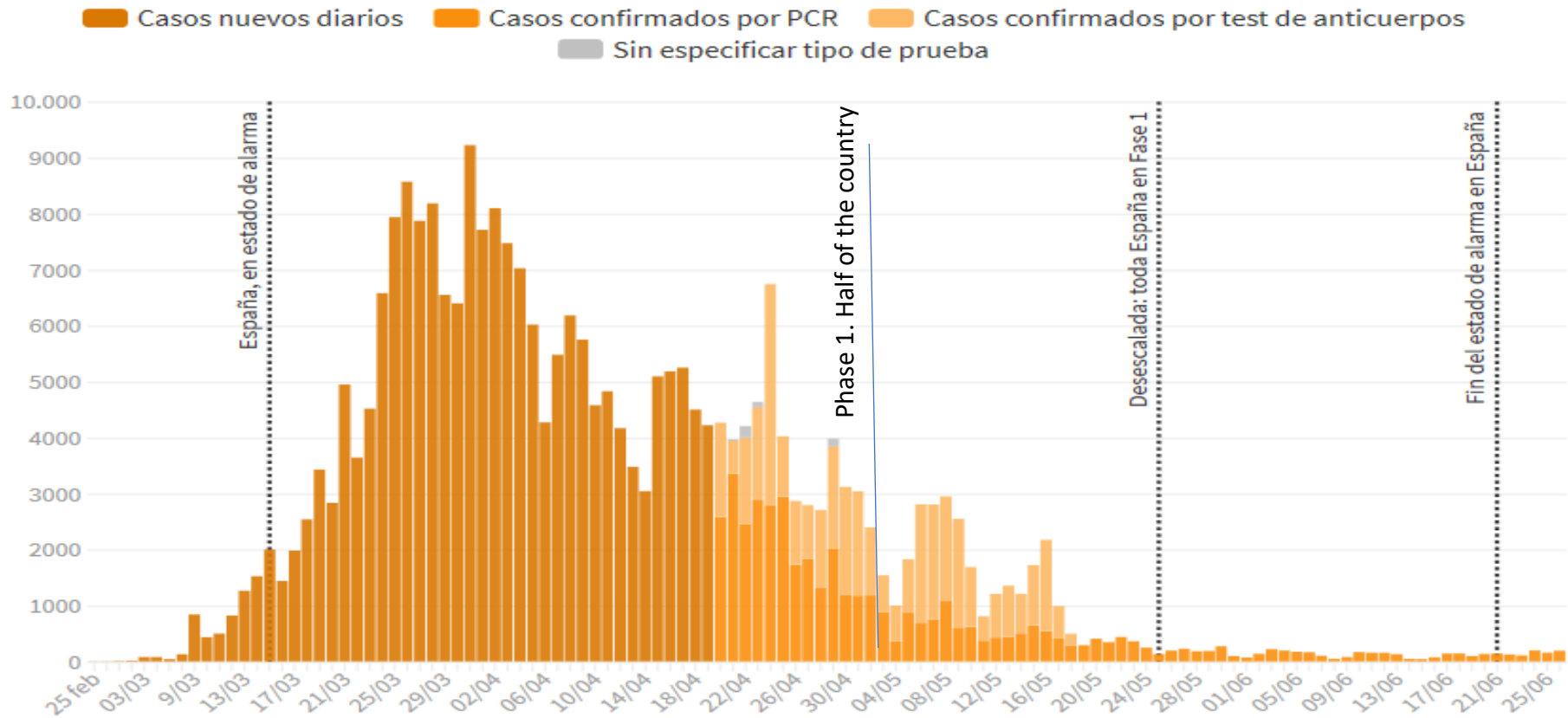
Heterogeneous impact across regions



Spain, daily cases + measures



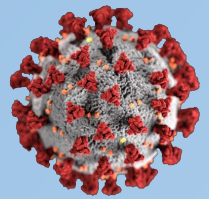
Casos nuevos diarios con coronavirus en España



Fuente: Elaboración propia, [Ministerio de Sanidad](#), [Instituto de Salud Carlos III](#) •

rtve

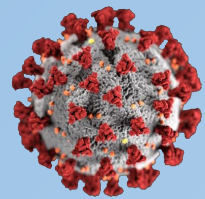
Reporting



- Report of confirmed or suspected cases mandatory, daily
- Statistics: only confirmed cases (PCR or serology)
- Deaths: only confirmed cases + estimations based on expected mortality

Prevalence of SARS-CoV-2 in Spain (ENE-COVID): a nationwide, population-based seroepidemiological study

Marina Pollán, Beatriz Pérez-Gómez, Roberto Pastor-Barriuso, Jesús Oteo, Miguel A Hernán, Mayte Pérez-Olmeda, Jose L Sanmartín, Aurora Fernández-García, Israel Cruz, Nerea Fernández de Larrea, Marta Molina, Francisco Rodríguez-Cabrera, Mariano Martín, Paloma Merino-Amador, Jose León Paniagua, Juan F Muñoz-Montalvo, Faustino Blanco, Raquel Yotti, on behalf of the ENE-COVID Study Group*



Lancet 2020

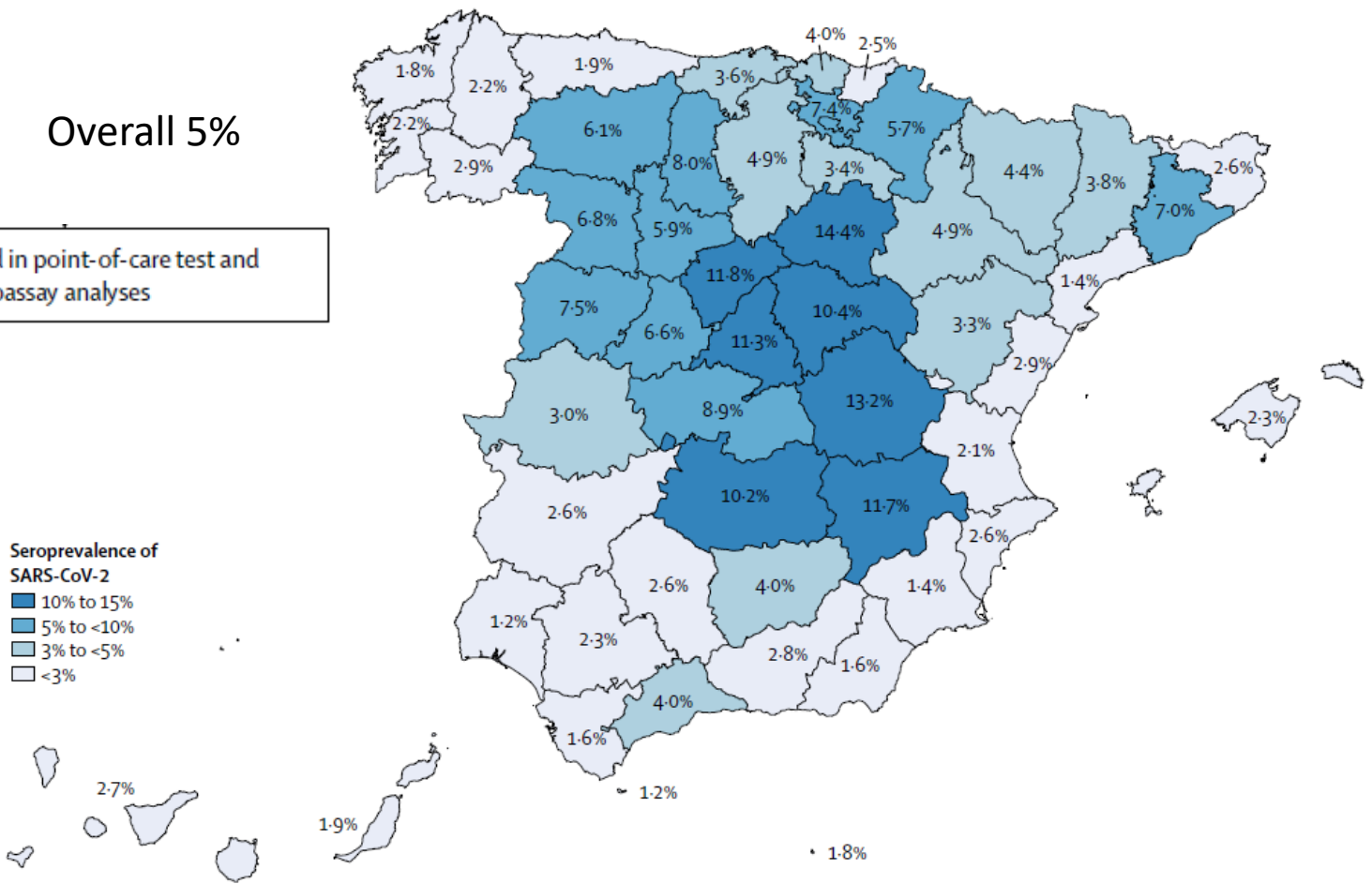
Point-of-care test

Overall 5%

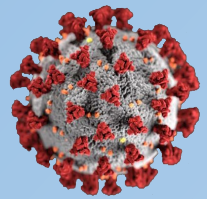
51958 included in point-of-care test and immunoassay analyses

Seroprevalence of
SARS-CoV-2

- 10% to 15%
- 5% to <10%
- 3% to <5%
- <3%

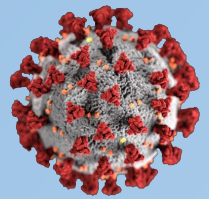


Public health measures

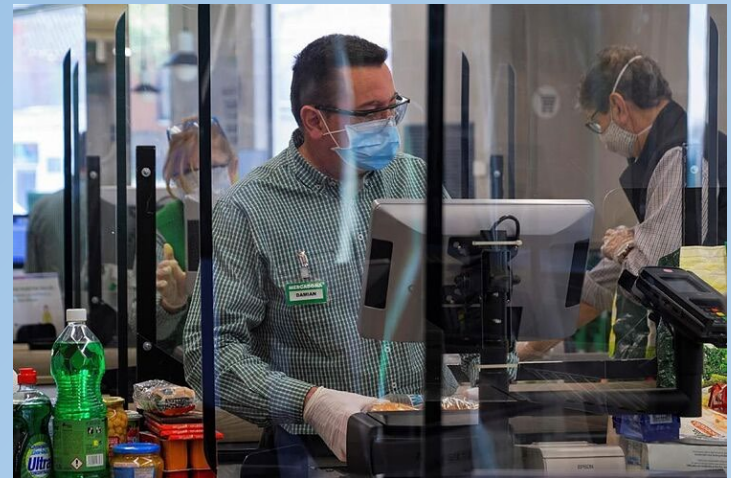


- National alert - country-wide full lock-down (March 15th) 8 weeks
 - At home (except indispensable jobs)
 - No meetings; restaurants, bars closed, etc.
- De-escalation (every 2 weeks)
- Phase 1
 - Walks - children, pets; individual sports outdoors
 - Some establishments with appointment
 - Surgical mask if <2 m
- Phase 2
 - Meetings up to 50 people
 - Restaurants, shops, theatres, etc. 1/3 of capacity
- Phase 3
 - Restaurants, shops, theatres, etc. 1/2 of capacity
 - Free movement within the province
- Phase 4
 - Back to work with social distance and masks
 - Free movement in the country

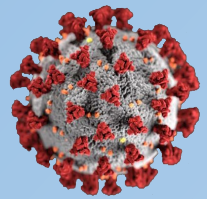
Situation now: “New normality”



- Free movements throughout the country
- Mask compulsory indoors, public transports, etc. and outdoors if 2m distance cannot be guaranteed
- Restaurants, bars, theatres, etc. with minimum distance requirements
- Hand hygiene and gloves for entering supermarkets, etc.
- Beaches: limited capacity allowing social distancing
- Telework if possible

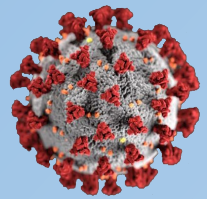


Situation now: “New normality”



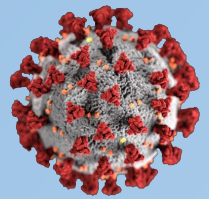
- PCR in Primary Care for all patients with symptoms
- Active search for contacts if any positive: isolation and testing
- Some 72 outbreaks detected
 - 47 “active”
 - 2 districts back to partial lock down last week

COVID-19 in Spain: Hospitals



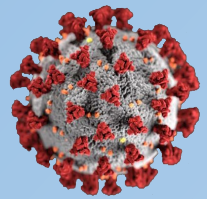
- First 2-3 weeks: shortage of PPEs
- Circuits
 - COVID-19 (suspected/confirmed) circuit – PCR
 - Non-COVID-19 circuit: PCR for elective aerosol-generating procedures, not otherwise
- Situation now
 - All patients with surgical mask if tolerated
 - All HCW with surgical mask
 - COVID-19 circuit: FFP2/3 mask, eye protection, gown, gloves
 - Non-COVID-19 patients: precautions according to procedures
- Nursing homes
 - Universal screening if any case

COVID-19 in Spain: Hospitals



- Testing of HCWs
 - If symptoms or contact
 - Universal
- High number of infected HCWs
 - Seroprevalence 10% vs 5.2% in general population
- Higher rate in highly affected hospitals
- Proportion of transmission from patients and other HCWs?

COVID-19 in Spain (personal opinion)



What we could have done better

- Delay in massive testing
- Lack of PPE initially
- Delay in close down
- Not-always-clear protocols
- Not enough input from frontlines

What we did/are doing quite well

- Full close down, high adherence
- Phases for de-escalation
- Seroprevalence study
- Reorganization of healthcare
- Clinical work
- Increased human resources
- Increase lab capacity