Spain from the frontlines

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Spain, daily new cases

Daily New Cases

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

Total no. of cases: 297,625

Source: [www.woldometers.info](http://www.woldometers.info) (6 July 2020)
Spain, daily deaths

Daily Deaths

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

Total no. of deaths: 28.385

Source: www.worldometers.info (6 July 2020)
Spain, cumulative cases and deaths

Source: [www.worldometers.info](http://www.worldometers.info) (6 July 2020)
Source: [www.worldometers.info](http://www.worldometers.info) (27 June 2020)
Heterogeneous impact across regions
Spain, daily cases + measures

Casos nuevos diarios con coronavirus en España

- Casos nuevos diarios
- Casos confirmados por PCR
- Casos confirmados por test de anticuerpos
- Sin especificar tipo de prueba

Fuente: Elaboración propia, Ministerio de Sanidad, Instituto de Salud Carlos III
• 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

Overall 5%

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