E-Conference: The Epidemiology and Economics of Coronavirus
2020.03.30

Spain: protocol and control measures

Carlos Chaccour MD PhD
Country particularities

- Political system
  - Quasi-federal
  - Heavily decentralized
Country particularities

• Universal Health system system
  • >9% of GDP

Graph by https://www.thisistherealspain.com/
Country particularities

- 10 ICU beds/100,000

Graph and data, Rhodes et al.
DOI: 10.1007/s00134-012-2627-8
Country particularities

- Median age 43 years
  - 3,000,000 80+
  - 4,000,000 70-79
  - 5,000,000 60-60

Graph by [https://www.portal.worldpop.org/demographics/](https://www.portal.worldpop.org/demographics/)
Country particularities

• 10% of households are three-generational (INE.es)
Current situation: deaths

Coronavirus deaths in Italy, Spain and the US are increasing more rapidly than they did in China

Cumulative number of deaths, by number of days since 10th death

Nationwide lockdowns: ★

- Deaths double every day
- DEATHS DOUBLE EVERY DAY
- More than 800 people had died in Italy before its nationwide lockdown began
- Every 2 days
- Every 3 days
- Italy: large elderly population raises death rate
- China had 2,715 deaths at 35 days
- Every week
- Spain locked down after around 200 deaths, France after around 175
- Belgium, Germany, Switzerland
- China began its strict lockdowns after around 30 deaths
- Belgium and India locked down early
- S Korea: early and large-scale testing and tracing helped authorities get the outbreak under control

FINANCIAL TIMES

FT graphic: John Burn-Murdoch / @burnmurdoch
Source: FT analysis of Johns Hopkins University, CSSE: Worldometers; FT research. Data updated March 29, 19:00 GMT
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New York, Catalonia and Madrid could pass Lombardia as the worst affected subnational regions

Cumulative number of deaths, by number of days since 10th death

Showing US states and selected subnational regions in Italy, Spain, China, France, S Korea and UK
Current situation: cases

Country by country: how coronavirus case trajectories compare
Cumulative number of confirmed cases, by number of days since 100th case

FT graphic: John Burn-Murdoch J @burnmurdoch
Source: FT analysis of Johns Hopkins University, CSSE; Worldometers; FT research. Data updated March 29, 19:00 GMT
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Current situation

As of March 29
• 78,797 cases (3rd country)
• 4,907 in ICU (2nd country)
• 6,528 deaths (2nd country)
• 14,709 recovered (2nd country)

Ranking by https://www.worldometers.info/coronavirus/#countries
Measures taken

0 cases National airline suspends flights to Beijing

3 cases Barcelona World mobile congress suspended

1.231 cases Schools close
Work from home
Avoid unnecessary travel

https://www.worldometers.info/coronavirus
Measures taken

- No public in sports events
- Major feast in Valencia suspended

https://www.worldometers.info/coronavirus
Measures taken

2.277 cases
55 deaths
No indoors events >1000
No flights from Italy

https://www.worldometers.info/coronavirus
Measures taken

- 3.146 cases
- 86 deaths
- No indoors events >1000
- No flights from Italy

https://www.worldometers.info/coronavirus
Measures taken

- No cruise ships
- Universities close
- No parliament meetings

Jan 21

5.232 cases
133 deaths

https://www.worldometers.info/coronavirus
Measures taken

16

https://www.worldometers.info/coronavirus

Jan 21

6.391 cases
196 deaths
State of emergency
Lock-down with work mobility

https://www.worldometers.info/coronavirus
Measures taken

- State of emergency
- Lock-down with work mobility

[78,797 cases]

https://www.worldometers.info/coronavirus
Measures taken

As of March 30
• Only essential labor
• Police-enforced traffic ban
Measures taken: economic relief

• 200,000 million euros (20% GDP)
• Mortgage moratorium
• 75-100% reduction in social security costs for small and large business
Next steps

• Exit the lockdown