COVID-19

Epidemiology and Control Measures
22/01 Surveillance of COVID-19 among severe cases of acute respiratory infection with epidemiological links
Laboratory network with confirmation capacity set up

27/02 Shift to case based enhanced surveillance of all SARS-CoV-2 laboratory confirmed cases

01/03 Red Zone measures broadened to municipalities in Lombardia and Veneto

04/03 First national level strict social distancing measures including school closures

11/03 Lock down

27/01 Direct flights to and from China suspended

31/01 COVID-19 declared a national health emergency

20/02 Local COVID-19 transmission detected

23/02 Strict social distancing measures in 11 municipalities in the Lodi province (Red zone)
Total number of confirmed COVID-19 cases, by Region

Incidence (per 100,000 inhabitants) of confirmed COVID-19 cases and number of cases reported with onset of symptoms in the last 14 days, by Region

Incidenza per 100000 0.01-10 10.01-20 20.01-100 >100
N. casi (12-25/03) 2000 4000 6000
| Age groups | Males | | | | | Females | | | | Total cases | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | N. Cases | % Cases by sex | N. Deaths | % Deaths by sex | % CFR | N. Cases | % Cases by sex | N. Deaths | % Deaths by sex | % CFR | N. Cases | % Cases by age group | N. Deaths | % Deaths by age group | % CFR |
| 0-9 | 244 | 57.5 | 0 | 0.0 | 0.0 | 180 | 42.5 | 0 | 0.0 | 0.0 | 428 | 0.6 | 0 | 0.0 | 0.0 |
| 10-19 | 261 | 51.2 | 0 | 0.0 | 0.0 | 249 | 48.8 | 0 | 0.0 | 0.0 | 512 | 0.7 | 0 | 0.0 | 0.0 |
| 20-29 | 1203 | 44.3 | 0 | 0.0 | 0.0 | 1510 | 55.7 | 0 | 0.0 | 0.0 | 2778 | 3.8 | 0 | 0.0 | 0.0 |
| 30-39 | 2465 | 49.7 | 14 | 82.4 | 0.6 | 2494 | 50.3 | 3 | 17.6 | 0.1 | 5033 | 6.8 | 17 | 0.2 | 0.3 |
| 40-49 | 4597 | 50.1 | 49 | 73.1 | 1.1 | 4570 | 49.9 | 18 | 26.9 | 0.4 | 9295 | 12.6 | 67 | 1.0 | 0.7 |
| 50-59 | 7998 | 55.8 | 190 | 78.5 | 2.4 | 6337 | 44.2 | 52 | 21.5 | 0.8 | 14508 | 19.7 | 243 | 3.6 | 1.7 |
| 60-69 | 8755 | 66.6 | 606 | 79.7 | 6.9 | 4394 | 33.4 | 154 | 20.3 | 3.5 | 13243 | 17.9 | 761 | 11.2 | 5.7 |
| 70-79 | 9309 | 66.1 | 1846 | 76.9 | 19.8 | 4781 | 33.9 | 555 | 23.1 | 11.6 | 14198 | 19.2 | 2403 | 35.3 | 16.9 |
| 80-89 | 6195 | 56.7 | 1808 | 66.9 | 29.2 | 4734 | 43.3 | 894 | 33.1 | 18.9 | 11001 | 14.9 | 2702 | 39.7 | 24.6 |
| ≥90 | 887 | 35.1 | 273 | 45.0 | 30.8 | 1640 | 64.9 | 334 | 55.0 | 20.4 | 2538 | 3.4 | 608 | 8.9 | 24.0 |
| non nota | 135 | 56.0 | 0 | 0.0 | 0.0 | 106 | 44.0 | 0 | 0.0 | 0.0 | 246 | 0.3 | 0 | 0.0 | 0.0 |
| Total | 42049 | 4786 | 11.4 | 30995 | 2010 | 6.5 | 73780 | 6801 | 9.2 |
HCW
Data as of 26 March 2020

6414 HCW
• Median age 49 years
• 35% Male
- Lodi Province in Lombardy: 11 municipalities included in the “Red Zone” from 23 February 2020

23/02 Strict social distancing measures in 11 municipalities in the Lodi province (Red zone)

Rt <1 from 28/02/2020

Models developed by the FBK Foundation, Trento under request of the Italian Government
Impact of early containment efforts
Lessons learned

• Act Fast
  • Do not wait until you have high numbers of COVID-19 confirmed cases

• Focus on fragile settings

• Issues around home quarantine

• Infection Prevention and Control
  • Training of HCW on DPI use
  • Procurement

Interim technical reports on IPC
https://www.epicentro.iss.it/coronavirus/sars-cov-2-ipc-rapporti-tecnici-iss