

EPI·WIN

WHO Information Network for Epidemics



**World Health
Organization**

Coronavirus disease (COVID-19)

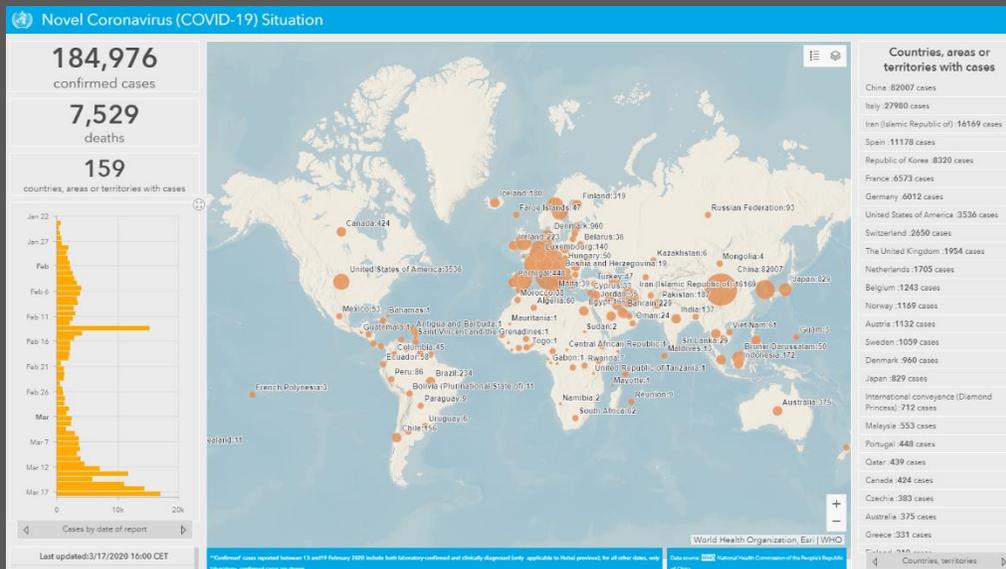
2019 - 2020

Update #17 17.03.20

Current Situation

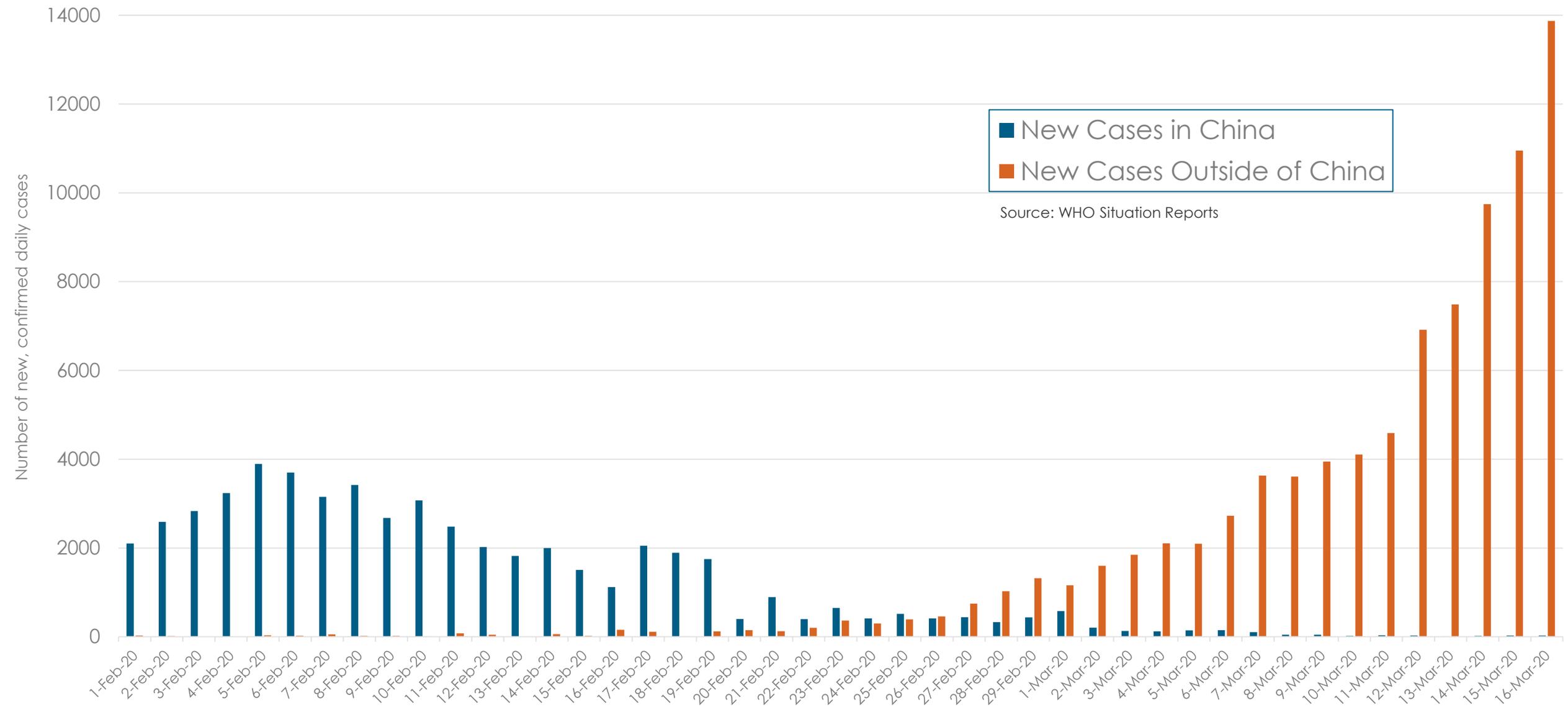
Globally, between 31 Dec 2019 - 17 Mar 2020

- A total of 184,976 confirmed cases
- 159 countries and regions affected
- 7,529 deaths



Source: WHO

New Cases of COVID-19 since 1 February 2020

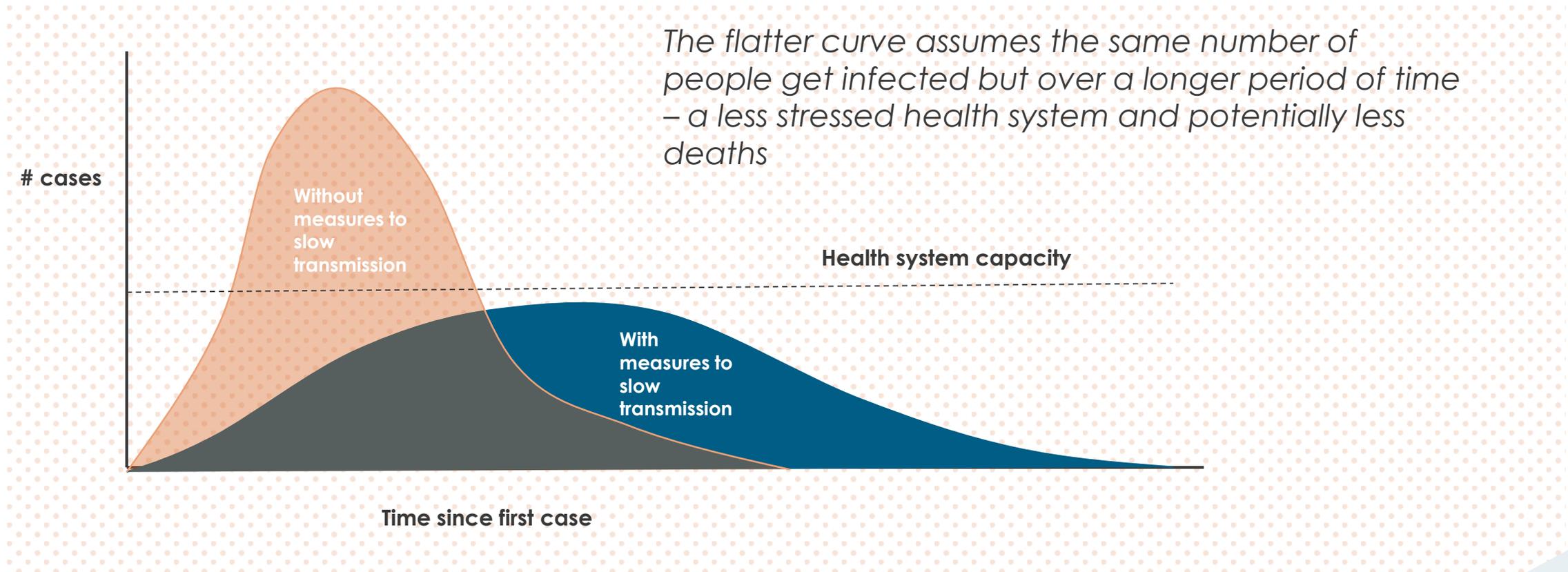




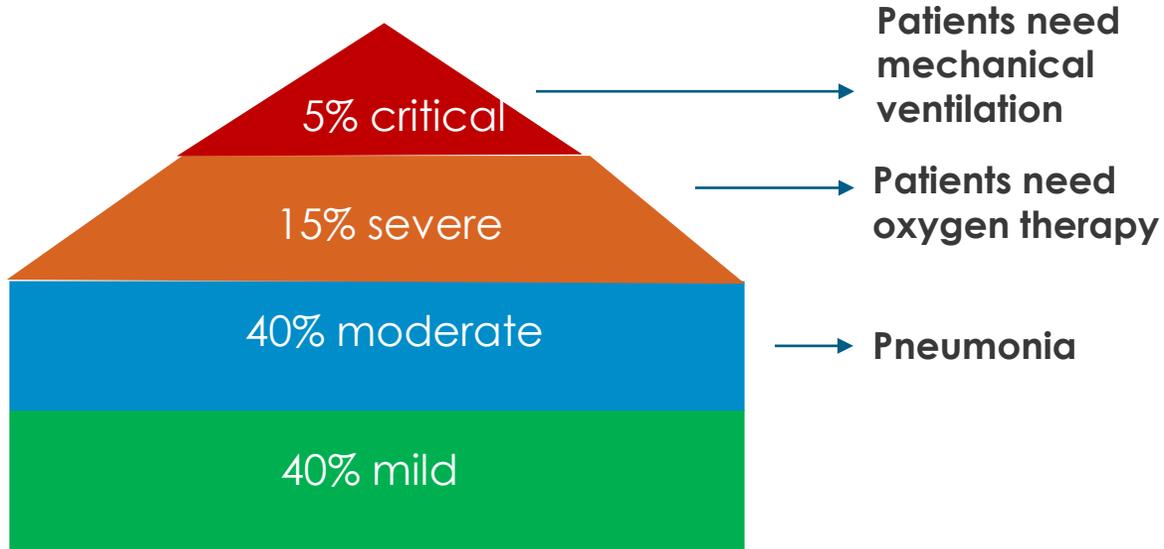
Prepare the health system to face a significant increase in demand for care

“Flatten the curve”

The steep curve represents exponential spread of the virus – the local health system will quickly become overloaded beyond its capacity to treat people.



Rationale 1: severity profile of COVID-19



There is no data from populations with high prevalence of HIV, malnutrition etc

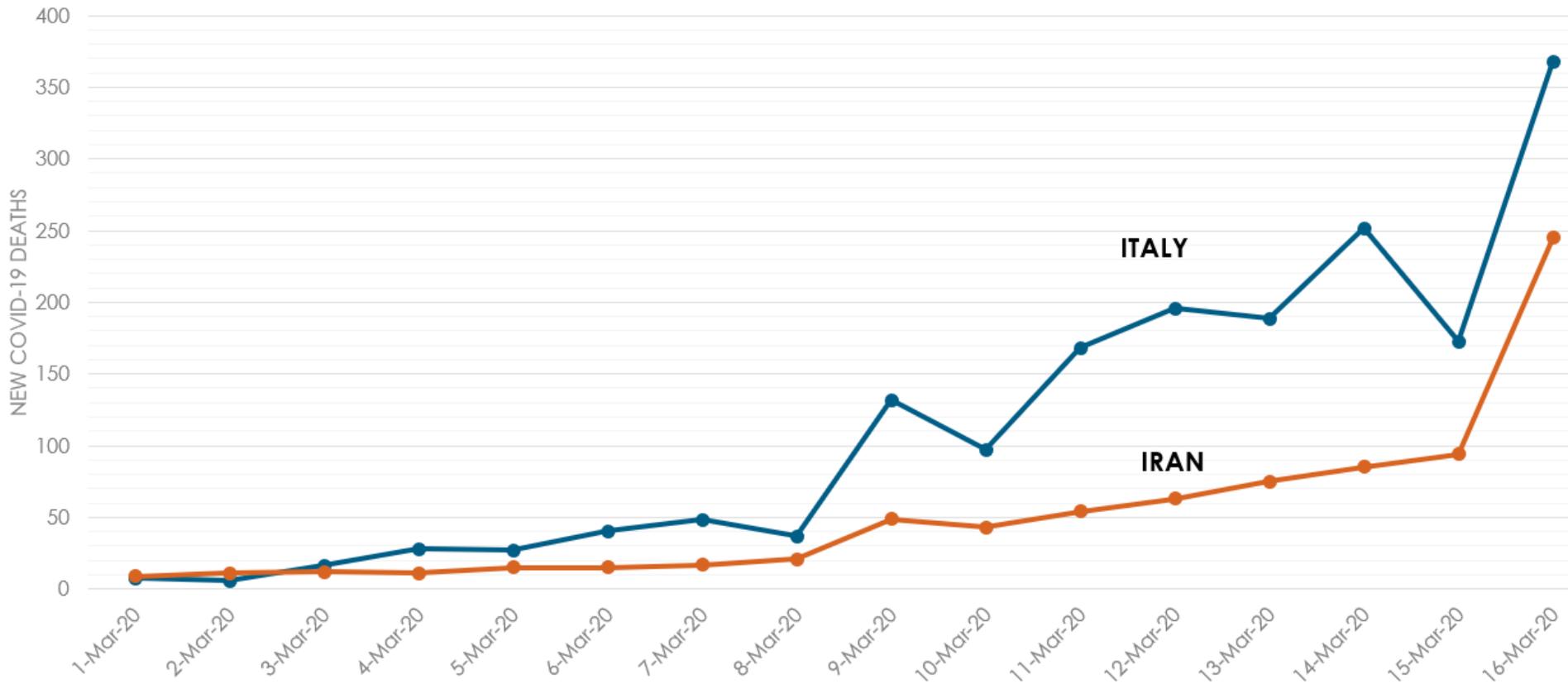
Hypothetical estimate of numbers requiring hospitalization based on current size of outbreak:

Country	Number of reported cases	20% (# people requiring oxygen & ventilation)
Italy	27,980	5,596
Iran	14,991	2,998
Spain	9,942	1,988
Republic of Korea	8,320	1,664
Germany	7,272	1,454

Based on the following assumption: all severe (15%) and critical cases(5%) require hospitalization. These numbers represent the current situation (as of 17.03.2020) which will change as more cases are confirmed.

Rationale 2: measure the time from the appearance of the first few cases to a large outbreak.... approximately 2 weeks to prepare

Number of COVID-19 deaths per day in Italy and the Islamic Republic of Iran



Get the health system ready: **TRIAGE**

AIM: prevent transmission in facilities and homes; do not overburden system;

- Isolate COVID-19 patients from other patients and ensure proper infection prevention and control in [facilities](#)
- Establish screening at all health care facilities (primary health care centers and hospitals)
- Mild cases must be managed and isolated at [home](#) whenever possible
- Maintain essential services for prioritized health needs beyond COVID-19



“COVID cabanas” set up outside hospitals in Utah for screening of patients
Credit: Business Insider



Triage tents
Credit: TODAYonline

Get the health system ready: **SPACE** and **SUPPLIES**

AIM: ensure capacity to treat severe and critical patients while maintaining essential health services

- Establish COVID-19 treatment areas with oxygen therapy and intensive care units with ventilation, where possible
- Anticipate number of beds needed
- Maintain a plan to expand capacity (repurposing of other facilities)
- Plan for continuity of supplies and management of waste



Engineers in Italy use a 3D printer to print oxygen mask valves when supplies ran short.
<https://3dprintingcenter.net/2020/03/15/italian-s-support-the-fight-against-the-covid-19-virus-by-3d-printing-valves-to-medical-equipment/>



Credit: South China Morning Post

Get the health system ready: protect **HEALTH WORKERS**

AIM: protect health workers for continued care and service

- Ensure [access to appropriate PPE](#) for health workers
- Bring in surge capacity and strengthen measures to prevent burnout (restricted working hours, access to psychosocial support)
- Provide [adequate compensation to health workers](#) and their families in the event of a health worker falling ill or dying



Health workers in Italy
Credit: AFP & Business Insider



More information

WHO sources:

COVID-19 website: <https://www.who.int/health-topics/coronavirus>

WHO Travel Advice: <https://www.who.int/ith/en/>

Email: EPI-WIN@who.int

Website: www.EPI-WIN.com