UZ LEUVEN



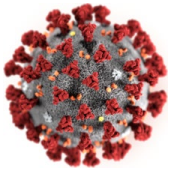
COVID-19 crash course

TOPICS

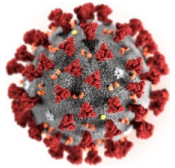
- **Microbiological testing: PCR – antigen – antibody**
  K. Lagrou
- **Radiology: role of CT in (differential) diagnosis**
  W. Dewever
- **Bronchoscopy**
  Chr. Dooms

- **Management: antiviral strategies**
  P. De Munter – R. Vos
- **Management: intensive care**
  Ph. Meersseman

- **Long-term follow-up**
  N. Lorent



Human Coronaviruses (HCoV)



HCoV-229E

HCoV-229E

HCoV-HKU1

HCoV-OC43

SEROTYPES

SARS-CoV

11/2002

MERS-CoV

06/2012

SARS-CoV-2

01/2020

Globally endemic HCoVs

Highly pathogenic HCoVs

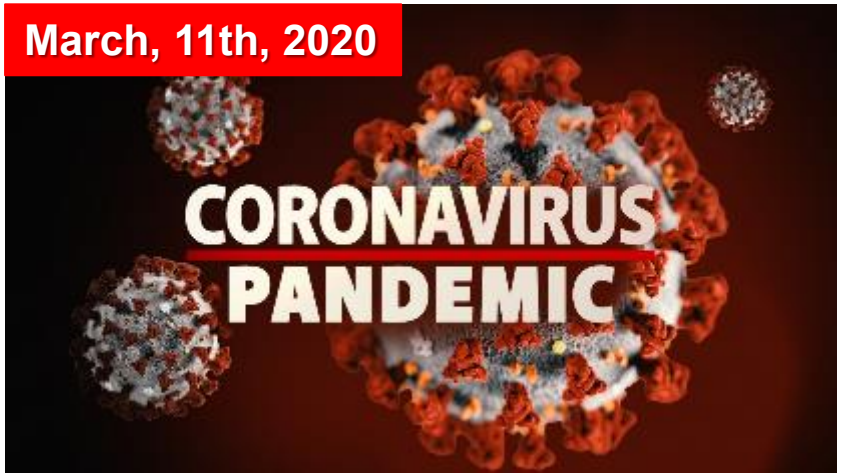
December, 30th, 2019



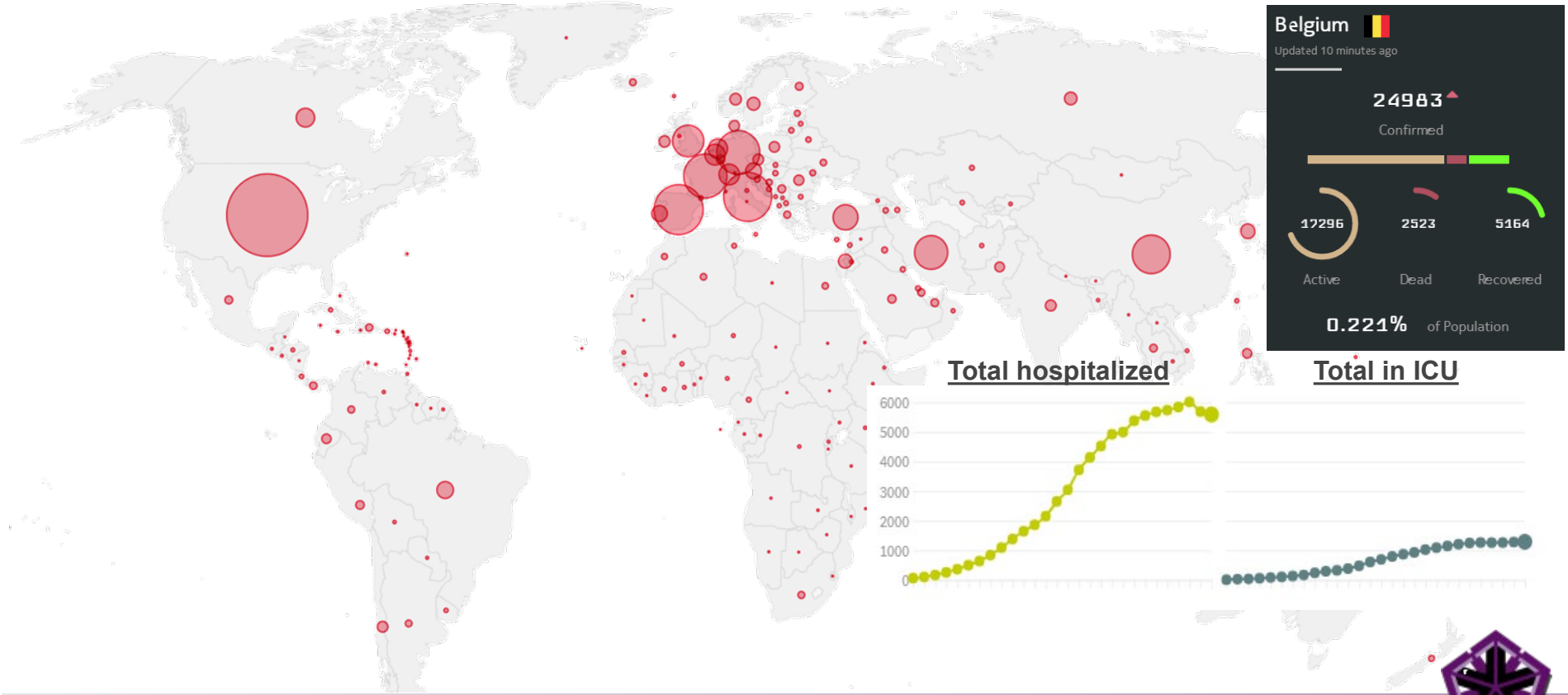
January, 30th, 2020



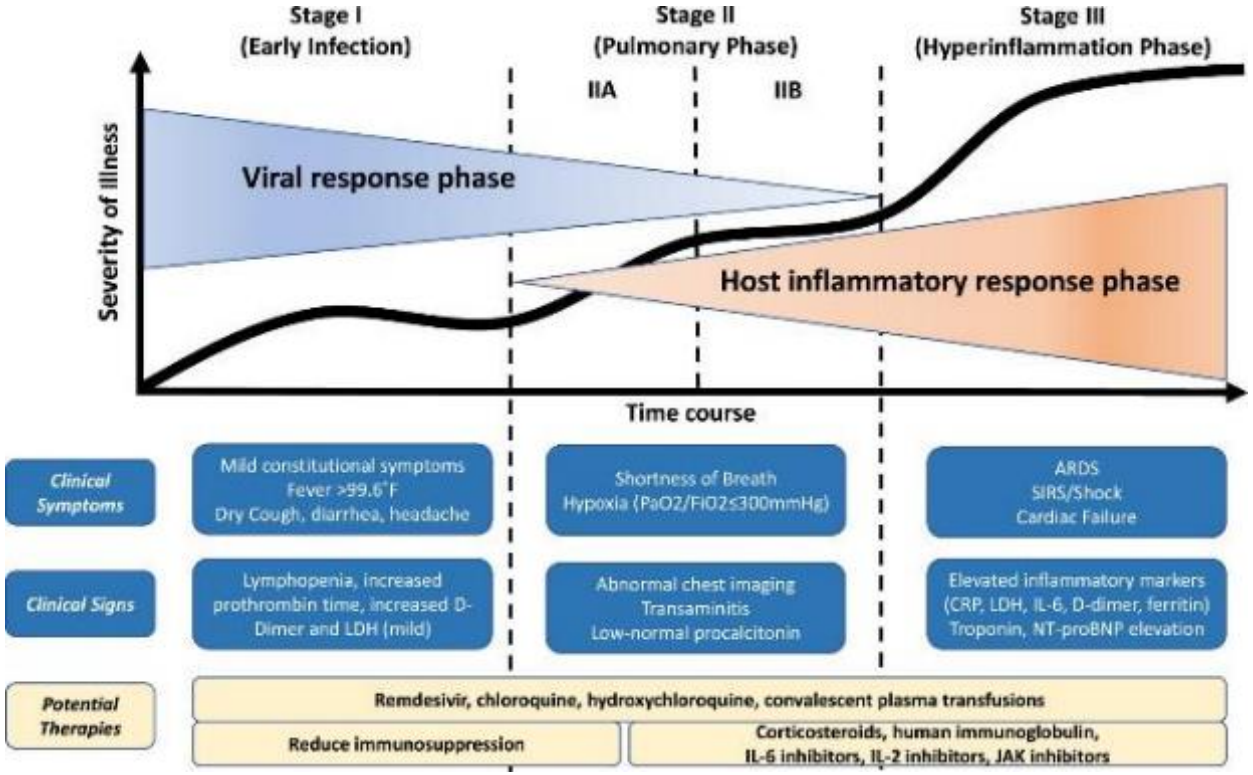
March, 11th, 2020



Confirmed cases: **1 524 931** --- Deaths: **88 635**



COVID-19 disease in humans



Woman, 76 years old

- Arterial hypertension, diabetes and hyperlipemia
- R/ Metformin

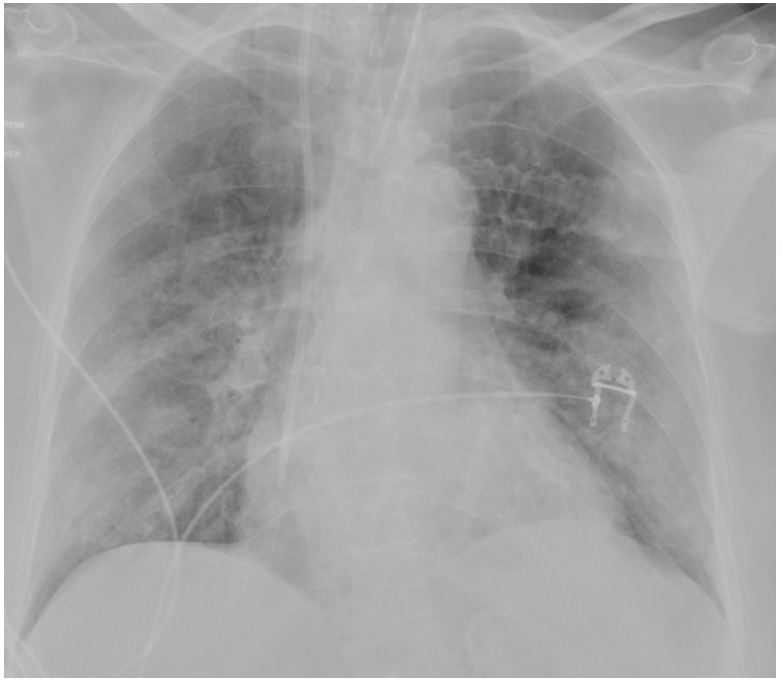
- Viral syndrome with fever (38,6°C), myalgia, non-productive cough, and shortness of breath, present for 4-5 days

- CRP 36, LDH 373, normal WBC

- pO_2 55 mmHg, $SatO_2$ 89% - pCO_2 31 mmHg at room air

Woman, 76 years old

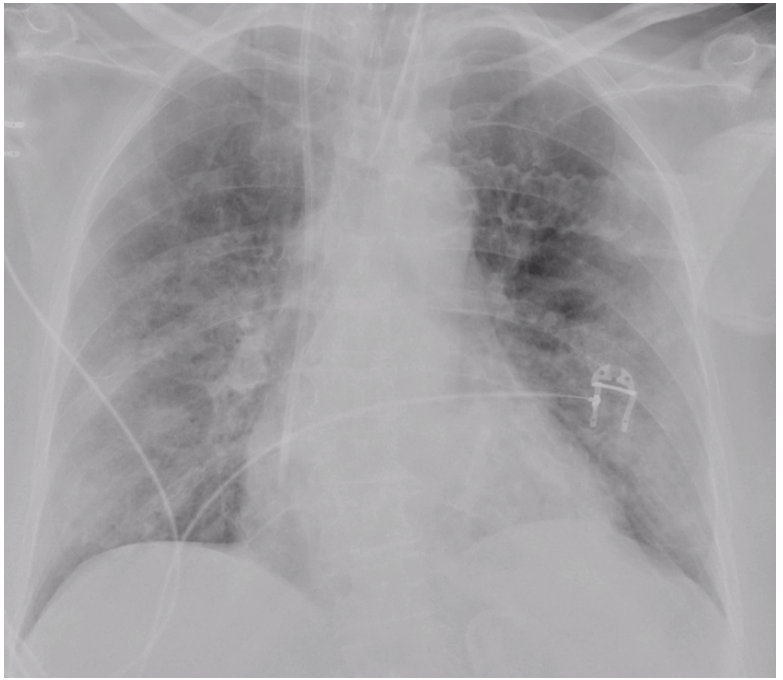
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- PCR SARS-CoV-2 : negative
- Admission to general ward, start broad-spectrum antibiotics
- Increase of dyspnea and desaturation++
- PCR SARS-CoV-2: negative

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- PCR SARS-CoV-2: negative → **BAL PCR SARS-CoV-2 positive**