

COVID-19

STRASBOURG

P.M. Mertes

*Service d'Anesthésie Réanimation
Nouvel Hôpital Civil – CHU de Strasbourg
U 1116 /EA 3072 /FMTS*

paul-michel.mertes@chru-strasbourg.fr



Inserm



Institut national
de la santé et de la recherche médicale

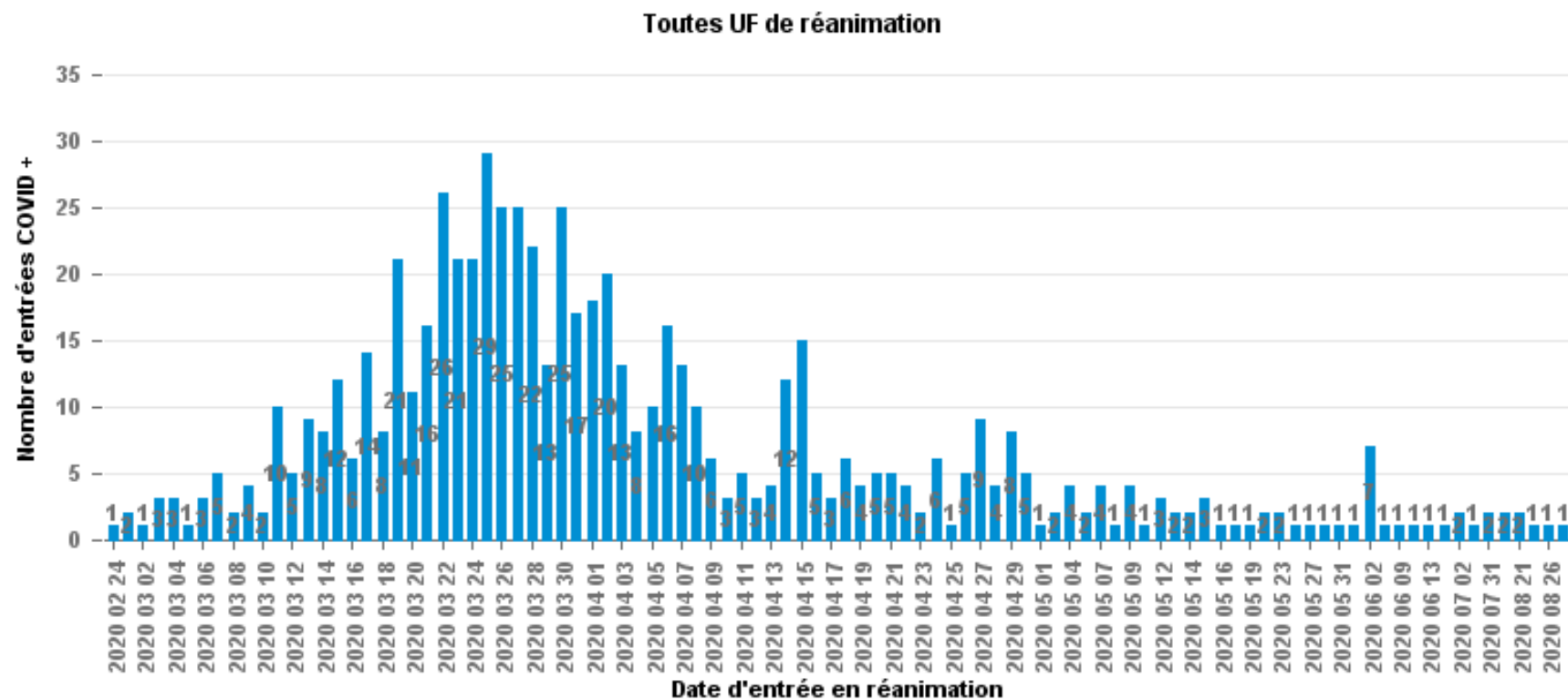
Epidemiology

- 24th February to 15th July 2020:
 - 1,487 deaths in our region,
 - mortality rate of 788 deaths per 1,000,000 inhabitants.
- 492 COVID-19 patients hospitalized in the ICU during 5 months.
- Peak of the outbreak 2nd April : 182 COVID patients in the ICUs

Organisation

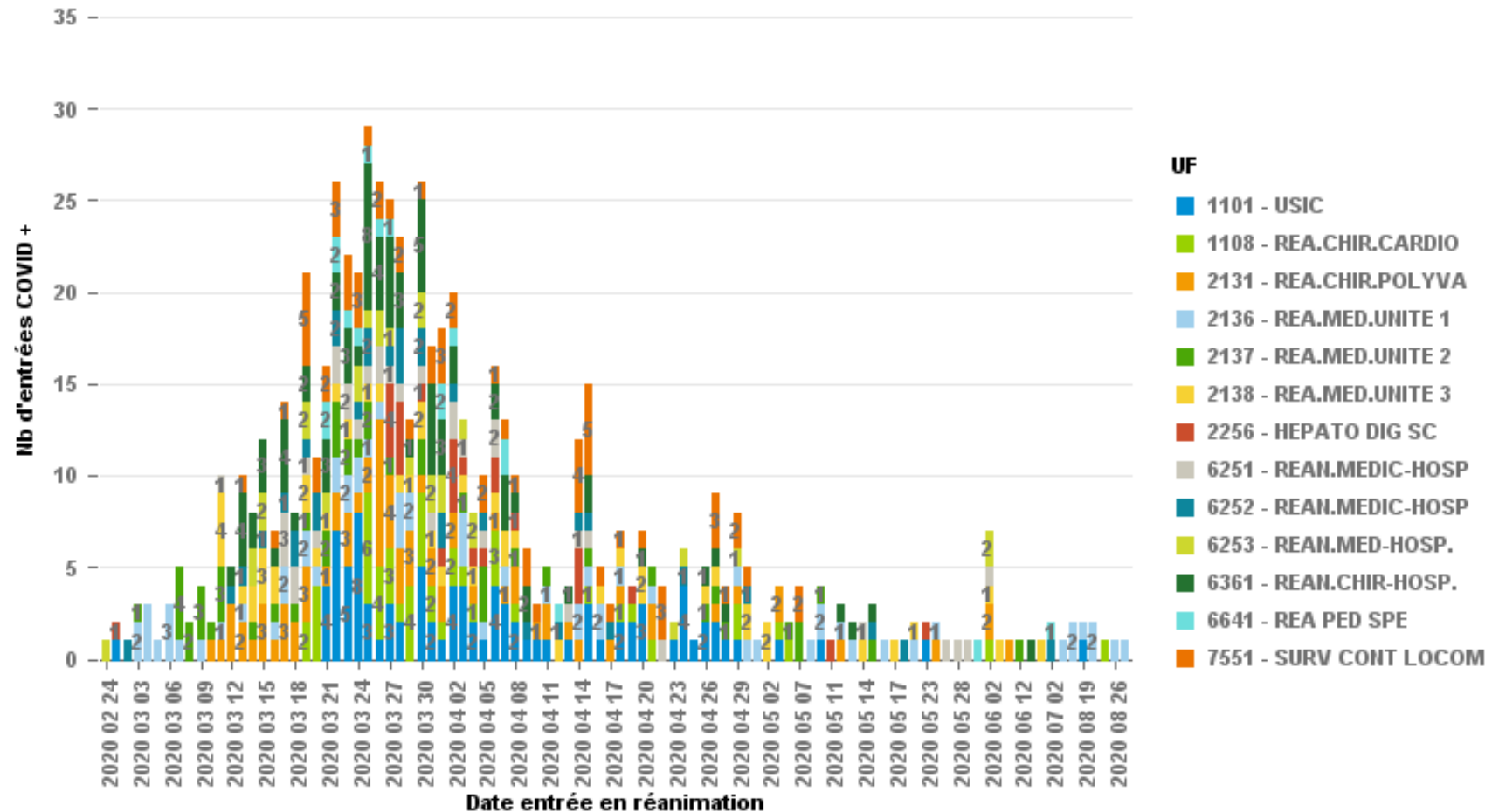
- Non-emergency activities were restricted and then stopped
- Reposition medical and nursing staff from the 40 operating rooms to the ICUs.
- 108 new ICU beds
- 59 patients to other ICUs, in France or other countries.
- ICUs reorganized : 156 nurses, 71 care assistants and 48 doctors.
- Specific teams trained to :
 - condition patients in the operating room before their transfer to the ICU (oro-tracheal intubation, placement of vascular catheters),
 - place patients in a prone position
 - provide daily information to patients' families.

Nombre d'entrées "COVID +" par date d'entrée en réanimation

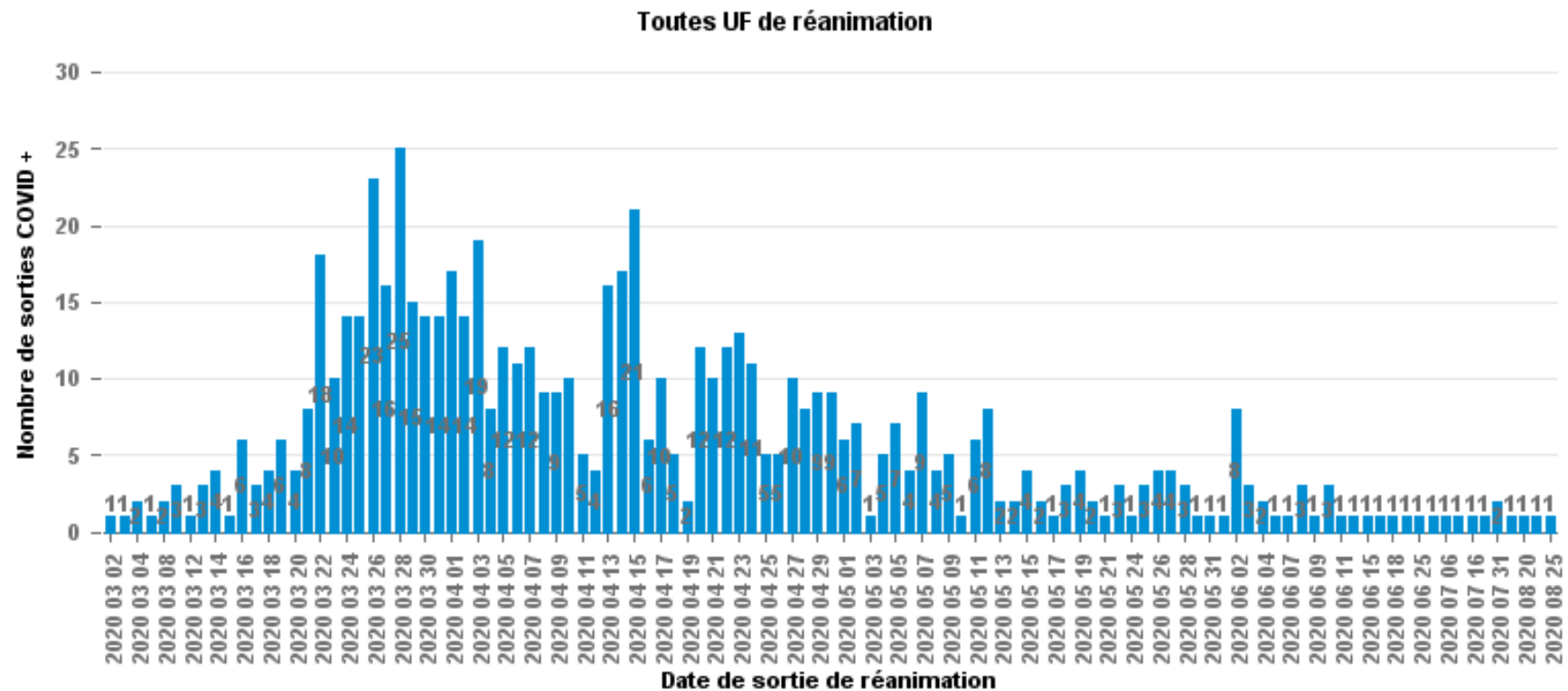


Nombre d'entrées "COVID +" par date d'entrée en réanimation

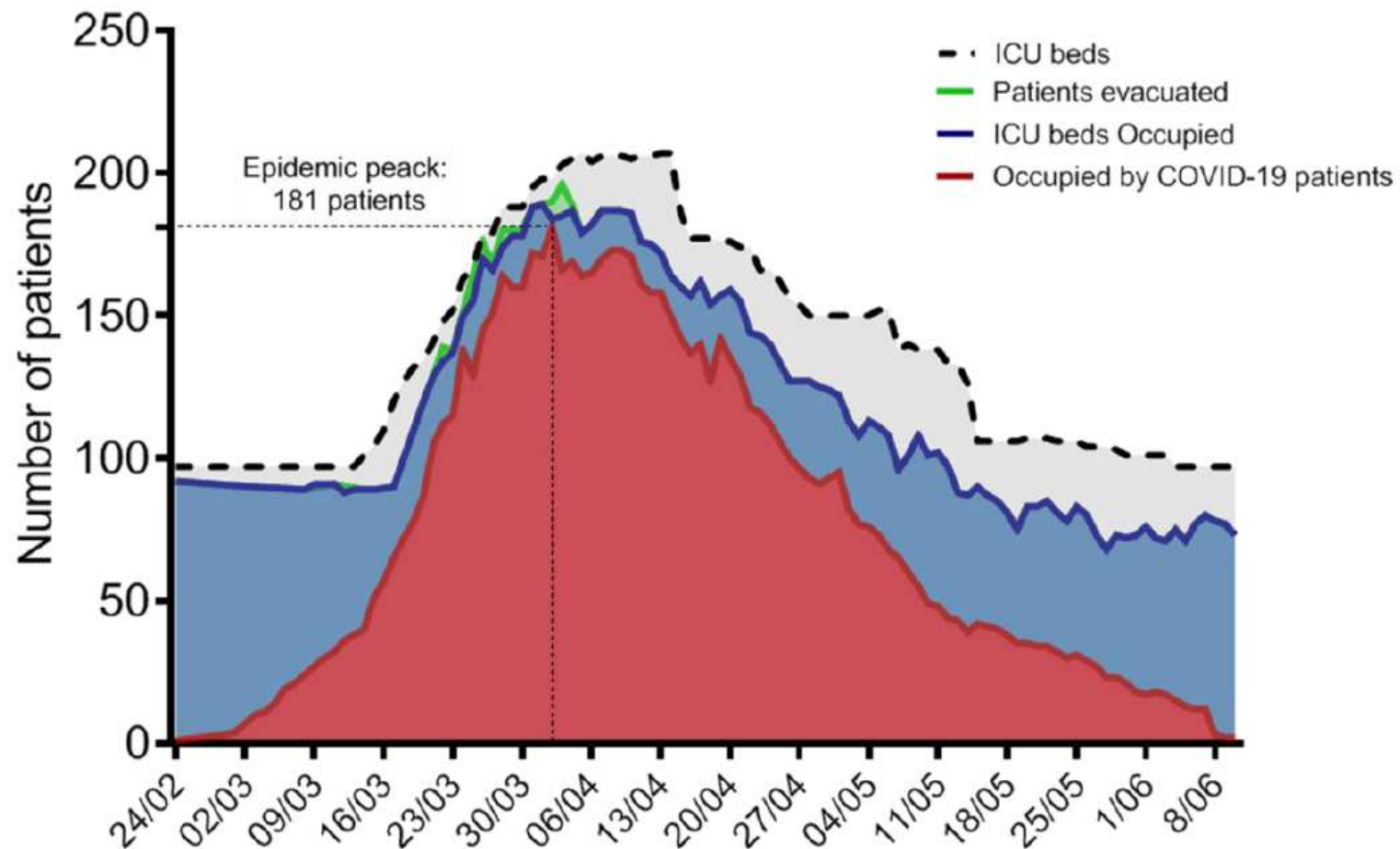
Par UF de réanimation



Nombre de sorties "COVID +" par date de sortie de réanimation

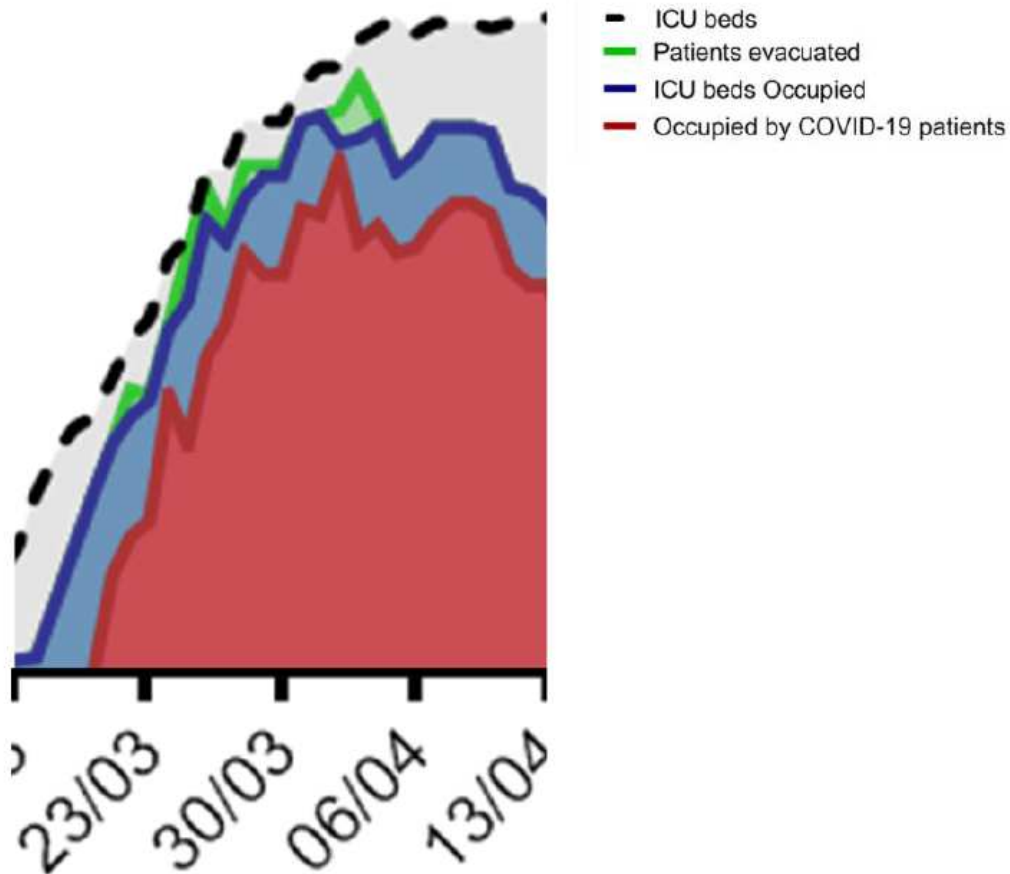


ICU epidemic wave in a tertiary hospital



At the peak of the outbreak on 2nd April, there were 181 COVID-19 patients in the ICUs.

Detailed Peak Analysis



❑ A total of 492 COVID-19 patients were hospitalized in the ICU.

❑ At the peak of the outbreak on 2nd April, there were 182 COVID patients in the ICUs

❑ Our hospital usually has only 97 ICU beds

Resultats

- 20% mortality rate for all ICU COVID-19 patients.
- This number should be interpreted with caution :
 - we managed the most serious patients and, in particular, those on ECMO (39 patients) in our hospital and
 - patients evacuated to other ICUs were less severely ill (mortality rate 14%).
- Italy: 26% mortality rate
- USA ICU mortality rate of 35.4%.

Merci pour votre attention

