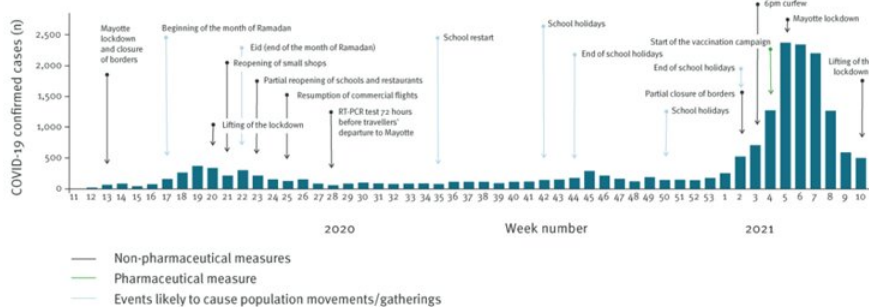


# Pandemic response in Mayotte: How approaches need to be adapted to local community needs

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Epidemic curve of confirmed COVID-19 cases by sampling date, timeline of public health measures and significant local events, Mayotte, week 11 2020–week 10 2021 (n = 18,131)



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Epidemiological profile of COVID-19 in the French overseas department Mayotte, 2020 to 2021.

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Epidemic curve of confirmed COVID-19 cases by sampling date, timeline of public health measures and significant local events, Mayotte, week 11 2020–week 10 2021 (n = 18,131). The island followed the 2020 national lockdown and set up local measures such as closing of borders, testing all persons traveling to Mayotte when borders were reopened, curfew, a second local lockdown, and a vaccination campaign. Credit: *Eurosurveillance* DOI: 10.2807/1560-7917.ES.2022.27.34.2100953

The COVID-19 pandemic together with its challenges hit the French overseas department Mayotte at a time the island in the Indian Ocean faced an unprecedented dengue outbreak with more than 4,000 laboratory-confirmed cases causing interruptions in work, overcrowded primary care services, hospitalizations and deaths. Mayotte is one of the most densely populated French territories with its 279,471 inhabitants and 77% of the population live below the poverty line. Many households lack running water, toilets or showers and there is only one hospital and 54 general practitioners per 100,000 inhabitants on the island.

In their article published in *Eurosurveillance*, Subiros et al. look at the epidemiology of the COVID-19 outbreak in the French overseas department Mayotte during the first year of the pandemic from March 2020 to March 2021. Moreover, based on their findings, the authors discuss how authorities should take vulnerable populations into consideration when implementing various infection control measures.

## **COVID-19 pandemic characteristics in Mayotte**

During the first year of the pandemic, Mayotte had 18,131 laboratory-confirmed cases of COVID-19. Among those, 253 (1.4%) patients were admitted to the intensive care unit (ICU) (104 in 2020 and 149 in 2021).

Surveillance and contact tracing systems were set up in Mayotte by the French public health Agency together with its partners. National lockdown was also implemented in Mayotte together with other local measures such as closing of borders, curfew and a vaccination campaign similar to the actions implemented in mainland France.

In the first wave of the pandemic, the virus spread quickly across the island and the first peak was reached in May 2020. Especially people aged 45 and over were affected, later also the rest of the population. In June, the peak subsided and from July to December viral spread

continued at a low level (incidence ratio (IR) 46 per 100,000).

In the beginning of 2021, the situation changed and the cases in Mayotte doubled between mid-December and mid-January. In the second wave, the epidemic reached its peak in February 2021 and affected mainly the elderly population ( $\geq 65$  years). The second peak also affected children, and the IR increased in children for the first time during the pandemic.

The authors acknowledge that the observed limited severity during the first wave in 2020 could be due to the lower transmissibility of the wild strain of SARS-CoV-2 compared with the Beta variant as well as the introduction of severe restrictive public health measures early on in combination with the young population in Mayotte. They also note that the results from the [second wave](#) were "probably affected by the higher transmissibility of the Beta variant."

## **Understanding a community is crucial for accurate public health preparedness and response**

According to the authors, there have been several factors that might have affected the surveillance and monitoring of the COVID-19 pandemic on the island: in addition to socioeconomic vulnerability, there have been communication difficulties because of misunderstandings of the disease and stigmatization of people with COVID-19 among the population.

Moreover, staying in lockdown was also challenging as two thirds of the populations make their living from informal businesses.

Hence, Subiros et al. speculate that although lockdowns have been effective in mainland France, this response measure might not work within the local circumstances in Mayotte due to the differences in the populations. The authors further propose that their findings "reaffirm

the imperative need to develop trusted awareness-raising networks led by community and/or religious leaders in a community such as Mayotte."

Subiros et al. conclude that the information provided in their article "is valuable for preparedness and future public health response in the region or for similar fragile populations in Europe. It shows how [real-time](#) epidemiological surveillance can be used in public health crisis situations to propose specific measures adapted to a socially vulnerable [population](#) ."

**More information:** Epidemiological profile of COVID-19 in the French overseas department Mayotte, 2020 to 2021, *Eurosurveillance* (2022). [DOI: 10.2807/1560-7917.ES.2022.27.34.2100953](https://doi.org/10.2807/1560-7917.ES.2022.27.34.2100953)

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