



## Case report

### 00845 SARS-COV-2 REINFECTION IN A HEALTHCARE WORKER FROM ROMANIA

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**Background** We present a clinical case of SARS-CoV-2 reinfection in a 40-year old female healthcare worker from the first city with undetected community transmission in Romania. The first episode of COVID-19 occurred in late March 2020, as part of a hospital outbreak of COVID-19 among healthcare workers from an emergency hospital.

**Case report** During this initial episode, confirmed by positive RT-PCR for SARS-CoV-2, the patient presented a mild form of disease, with high fever and asthenia, but apparently without lung involvement from what could be seen on chest X-ray. She became negative on RT-PCR after 2 weeks, but she did not develop antibodies (as measured on ELISA and chemiluminescence). Two months after the complete clinical and virological resolution of the first episode, the patient presented a new episode of RT-PCR-confirmed COVID-19, with fever, headache, cough, dyspnea, anosmia, thoracic and cervical pain, and myalgia. This time, the clinical and radiological picture classified the case as a moderate infection, with thorax CT scan revealing 2 areas of ground glass opacity: one area of 7 mm in diameter latero-basally in the right lung and a periscizural opacity of 6.5 mm in the left lower lobe. She became negative on RT-PCR 12 days after onset. During the first week of the current episode, SARS-CoV-2 IgA was positive by ELISA, but all subsequent ELISA and chemiluminescence tests revealed negative SARS-CoV-2 antibodies.

**Learning points** We report the case of a patient who presented two episodes of COVID-19, both confirmed by RT-PCR, the first being a mild form of disease, and the second one a moderate form of disease. The episodes occurred two months apart, in a city with important community transmission of SARS-CoV-2, in a patient who did not develop specific antibodies.

**Conclusions** -