Case report: 90 year old lady infected with two CoVID-19 VOCs: 20I/501Y.V1 and 20H/501Y.V2

Introduction
In March 2021, a 90 year old lady was admitted to our hospital because of recurrent falling. Screening for SARS-CoV-2 was positive. She had no important medical history. She did not reside in a collectivity, she lived alone and received nursing care at home. Initially, there were no signs of respiratory distress and the patient had good oxygen saturations. However, during her stay, she developed rapidly worsening respiratory symptoms. The patient died after five days.

Conclusions
Routine VOC PCR analysis of all our positive samples identified a double infection with two SARS-CoV-2 VOC's. More widespread implementation of VOC PCR analysis of positive samples would probably identify more mixed infection and could lead to a better insight for their effect on illness and treatment.

Methods
1. Extraction of SARS-CoV-2 RNA from respiratory samples
Seegene STARMag 96x Viral DNA/RNA 200 C Kit
Hamilton STARlet extraction- and pipetting station

2. Real time PCR for detection of SARS-CoV-2
TaqMan PCR: Primers and probes according to CDC, N1 PCR
TaqMan Fast 1 Step master mix
QuantaBio 7 flex real time PCR system
Fastfinder data analysis software

Primers designed with primer 3 Plus
Sequencing on GenomeLab Genetic Analytic System (Analis)

4. MinION whole genome sequencing of SARS-CoV-2
Artic pipeline
MiniON (Oxford Nanopore) Nextclade and Pangolin

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