

# Dramatic clinical worsening in Covid-19 patients before entering public health system. Comparison of vaccinated and not vaccinated patients.

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Argomento: COVID-19

**Background:** We describe the difference among vaccinated and not vaccinated patients in pre-covid setting, during hospital, ICU admission and the mortality rate. We evaluated if a longer stay at home could provoke not only a respiratory worsening but also a systemic falling. **Methods:** This is a monocentric retrospective descriptive study. We admitted critically ill patients in emergency ward then in ICU with confirmed SARS-CoV-2 pneumonia. Patients were divided in two groups: not vaccinated (no vax) and vaccinated (vax). Who received at least two doses of the SARS-CoV-2 vaccine were included in the vax group. We analyzed for every patient: the time between the beginning of covid-19 symptoms and the admission in Hospital; the Charlson Comorbidity Index (CCI); the CT severity score (CT-SS) for the first CT during the admission in hospital and the Saps II in ICU. The time of study was from 1 November to 15 of January 2022. **Results:** 54 consecutive patients admitted in ICU during the time of study, 36 were not vaccinated (66,6) while 18 (33.3%) were vaccinated. Vax were older with 76 of median age, versus 60 for no vax ( $p0,004$ ) went to the Hospital after 4 days of symptoms, instead the no vaccinated after 7 days ( $p0,020$ ); they had a CCI of 5 versus 2 for no vax. The CT-SS was 10 for vax and 13 no vax group ( $p0,07$ ). Saps II in ICU was 35 for no vax and 39,5 for vax group ( $p0,051$ ); the mortality was 27,7% for vax and 38,8% for no vax patients ( $p 0,4$ ). **Conclusions:** Patients no vax during their “stay at home and wait” had a fast worsening such that when they were admitted in emergency department and the ICU, they had the severity scores and mortality similar to vax patients who were older and with higher CCI.

## Charson Comorbidity Index and SAPSII Vax/no Vax group

