

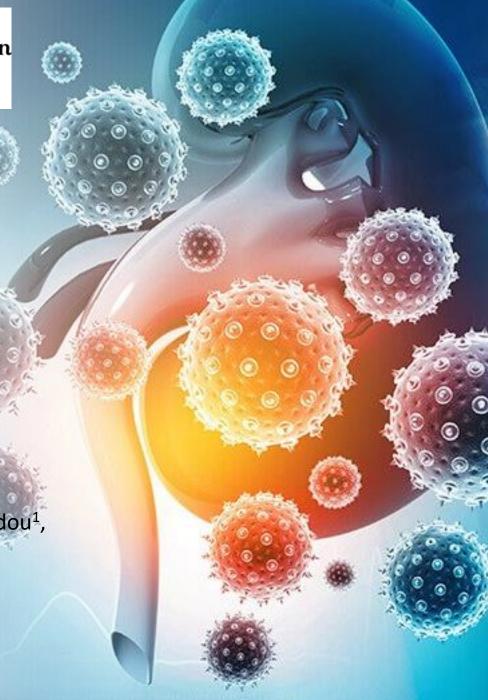
EST. 1837 -

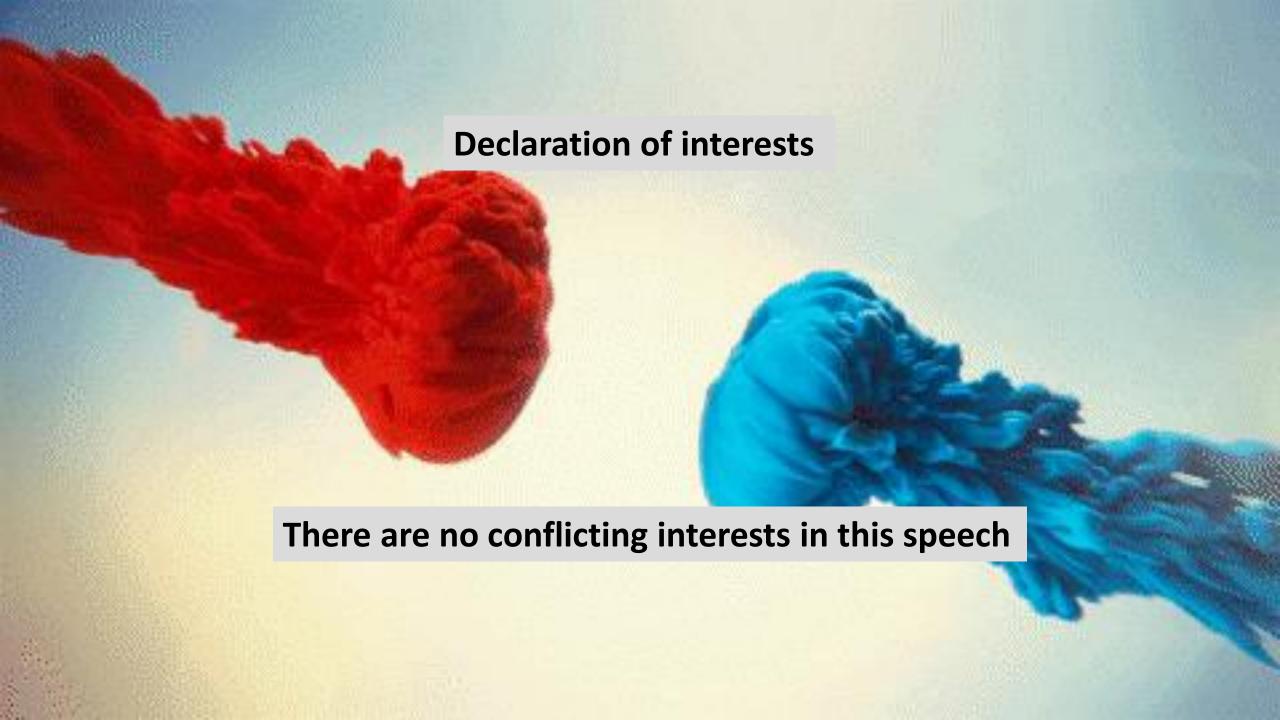
The effect of covid-19 infection on antibody levels in vaccinated patients on HD: a clinical study.

Maria Sofra¹, Paraskevi Tseke², Paraskevi Eva Andronikidi¹, Virginia Athanasiadou¹, Dimitrios Panokostas¹ and Eirini Grapsa¹

¹Aretaieion University Hospital, Nephrology Department, Athina, Greece

²Renal Unit, General Hospital Alexandra, University of Athens, Athens, Greece

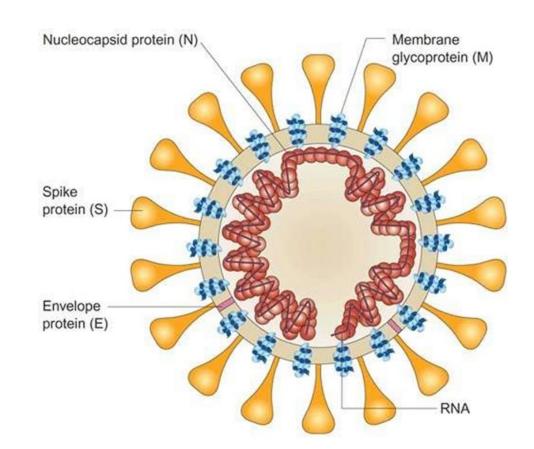




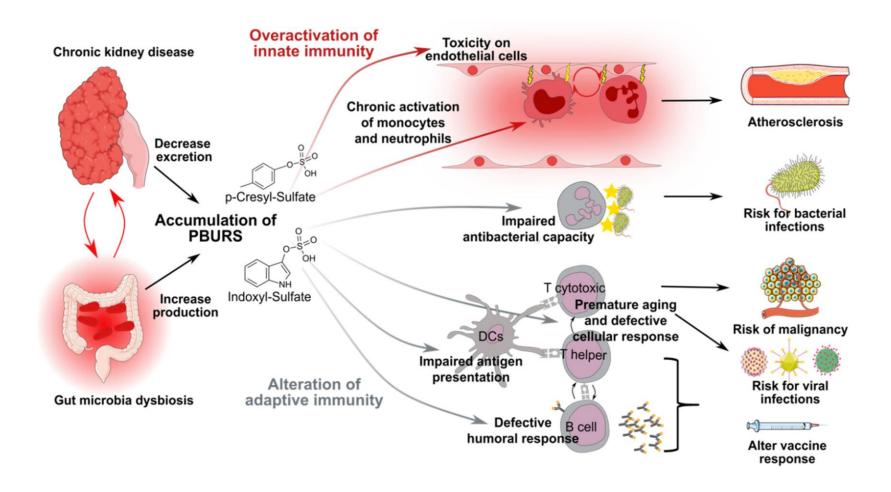
COVID-19 disease

- 2019, Wuhan, China
- Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2)

- ✓ Medium-sized, large mRNA genome
- ✓ Encased in nucleocapsid
- ✓ Lipid bilayer
- ✓ Glycoprotein Spike (S) Peptomer
- ✓ Spikes allow it to attach to human cell receptors in upper or lower airway



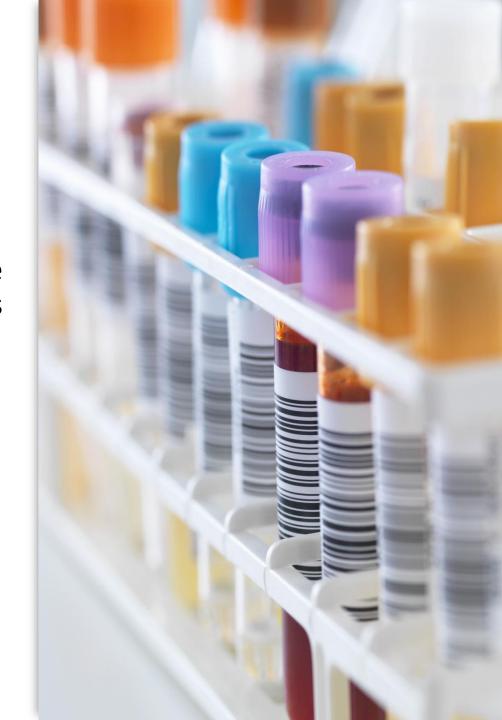
Immune system on CKD



Patients and methods

- 12 patients, 5 women and 7 men.
- Average age **71.2** ± 9.83.
- No statistically significant difference (p=0,66) in the mean age of men and women (female 69.6 \pm 9.23 vs male 72.2 \pm 10.8).
- 8 of them (66.7%) were infected from SARS-COV2 virus.

✓ Participants were recruited following any COVID-19 vaccine dose and have been blood sampled for serological testing at 3 measurements.



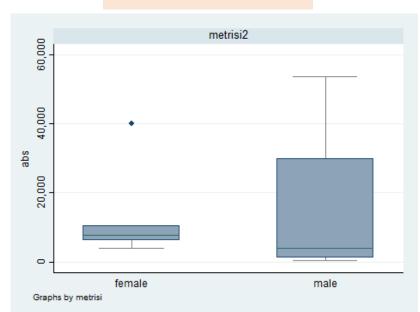
Results

- Statistically significant difference between the 1st and 2nd measurement (p=0.0124) as well as the 1st and 3rd measurement (p=0.0048) but not between the 2nd and 3rd measurement (p=0.72)
- No statistically significant difference in any measurement period between men and women (1st: p=0.29, 2nd: p=0.32, 3rd: p=0.46).

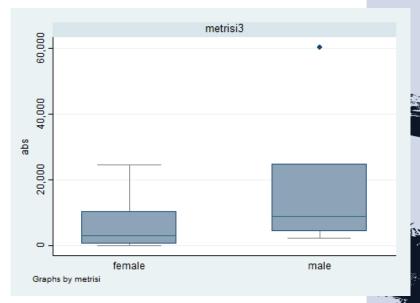
1st measurment



2nd measurement

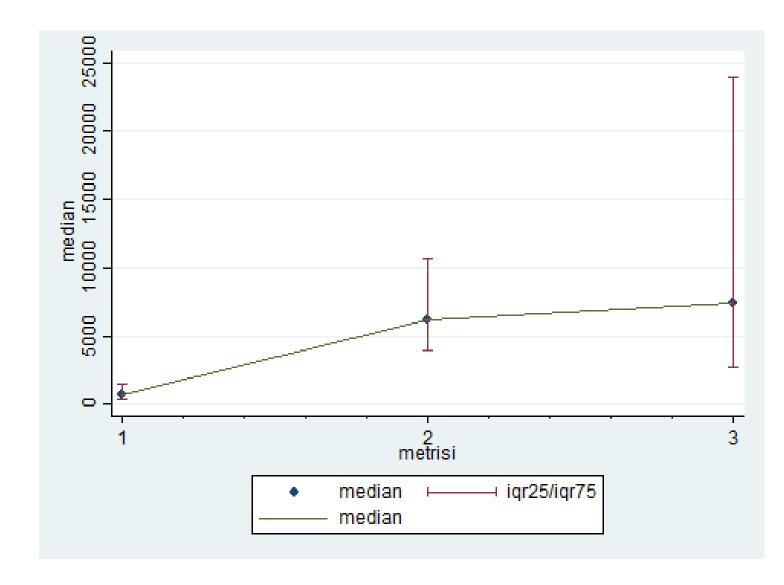


3rd measurement



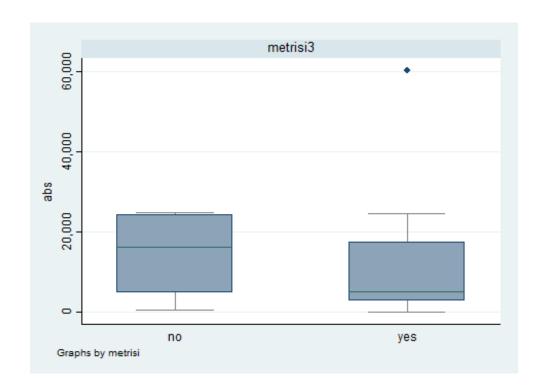
Results

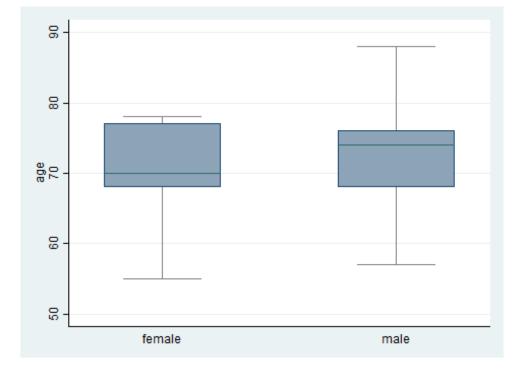
 A gradual increase in abs levels was found in the 3 measurements and the difference was statistically significant (p=0.0091)



No statistically difference between those who got infected and those who didn't (p=0.73)

No correlation of antibody levels with age was found





Conclusions

Covid-19 infection in vaccinated patients under HD appears to have no effect on antibody levels.

No increase in antibody levels was observed after the third dose.



Aretaieion University Hospital, Nephrology Department, Athens, Greece

THANK YOU FOR YOUR ATTENTION