



CLINICAL PICTURE AND OUTCOME OF SARS-COV2 INFECTION POST VACCINATION IN PATIENTS ON CHRONIC HEMODIALYSIS

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Sars-CoV-2 and HD patients

- Hemodialysis (HD) patients are at higher risk of COVID-19 due to compromised immune status from uremia, inflammation and oxidative stress.
- Moreover, the thrice weekly dialysis program, does not permit to HD patients adherence to a stay-home policy and avoidance of close contact.

Aim of the study

The impact of the 4th wave of the COVID-19 pandemic on HD patients

Material & Methods

HD Patients with sars-cov2 infection

CKD stage 2-3 patients with sars-cov2 infection

- Demographics
- Clinical and laboratory data
- History of vaccination
- Hospitalizations due to COVID-19
- Outcomes

Results

Parameter	Result
Number of HD patients	30 patients
Male sex	27 patients
Mean age	70 (± 15.1) years
Vaccinated (3 doses)	30 patients (all)
Diagnosis of covid 19 infection	18(± 11.2) hours after the onset of symptoms

- No patient required hospitalization
- No death was recorded due to COVID-19
- No signs of long COVID-19 syndrome

Results

SYMPTOMS

Type of symptom	Percentage (%)
Cough	87.1
Fever	90.3
Fatigue	90.3
Anosmia	58.06
Runny nose/sore throat	51.6
Anorexia	22.5
Diarrhea	3.3%

Results

Compared to the control group

HD patients had an earlier diagnosis: 18(\pm 11.2) vs 29 (\pm 12.7) hours, ($p < 0.05$).

No difference regarding the clinical picture and outcome related to COVID-19.

Blood test results

Parameter	HD patients	Controls	P-value
WBC count (K/ μ L)	6870	7688	ns
PMN (%)	58,4(\pm 11,4)	60,2(\pm 9,4)	ns
L (%)	21,7(\pm 7,4)	20,7(\pm 7,9)	ns
Neutrophil-to-lymphocyte ratio (NLR)	2.29 [1.69-3.08]	2.32 [1.65-3.20]	ns
C-reactive protein (mg/L)	2,5(\pm 1,1)	3.2(\pm 2.1)	ns

Conclusions

- The strategy of vaccination against sars-cov2 infection significantly improved the outcome of COVID-19 in HD patients.
- HD patients had an earlier diagnosis from the control group
- No difference on clinical picture and outcome related to COVID-19
- No difference on blood tests

Thank you for your attention!

