

**Abstract Type : Poster**

**Abstract Submission No. : 1424**

**COVID-19 clinical results of hemodialysis patients affiliated with a medical foundation (Yeolin Medical Foundation, 28 Hemodialysis Centers)**

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**Objectives: Hemodialysis patients have a higher mortality rate than the general population after COVID-19 infection.**

**Methods:**

This retrospective study collected clinical data through confirmed COVID-19 occurrence reports from 28 clinics affiliated with the medical foundation from February 2020 to December 2022. The patients were analyzed data by age, gender, coronavirus vaccination, and mortality rate, and risk factors for death.

Mortality rates of Hemodialysis patients and the general population were compared using the COVID-19 database of the Korea Disease Control and Prevention Agency (KDCA).

**Results: A total of 887 patients were diagnosed with COVID-19 at the 28 centers affiliated with the foundation were as follows,**

1. The gender ratio of confirmed COVID-19 patients was 59% male and 40% female. Out of them, 61% belonged to a high-risk group at the age of  $\geq 60$  years. Among Hemodialysis patients with a history of confirmed COVID-19, there were a total of 28 deaths and the mortality rate was 3.16%, which was 29 times higher than that of the general population (27 deaths out of 887 confirmed cases in the foundation). The gender ratio of patients who died was 67% male and 33% female. High-risk patients at age of  $\geq 60$  years accounted for 81%. 77.8% of the deceased patients had diabetes and high blood pressure as underlying conditions. Vaccination status was confirmed to be 38% unvaccinated, 8% vaccinated up to the first dose, 17% vaccinated up to the second dose, 28% vaccinated up to the third dose, and 8% vaccinated up to the fourth dose. Risk factors for death in hemodialysis patients after COVID-19 diagnosis are gender, advanced age, underlying medical conditions, and vaccination.

**Conclusions: Hemodialysis patients have a high mortality rate due to COVID-19. Therefore, special care and interest should be given to those who are the elderly or have no history of vaccination.**