**Cardiopulmonary Exercise Test Parameters among Dialysis Patients with End Stage Renal Disease in a Tertiary Hospital in Tehran**

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**Abstract**

**Background and Aim:** The current study aimed to basically assess some parameters of cardiopulmonary exercise test (CPET) to report them among end stage renal disease patients who underwent dialysis in order to improve disease management for achieving optimal quality of life and exercise capacity in this group of patients.

**Materials and Methods:** Through a cross-sectional design, the current study enrolled 46 dialysis patients by simple sampling between Jan 2019 and Jan 2020. Some CPET parameters such as AT, VO2, VO2/kg, SPO2, minute ventilation CO2 production/O2 consumption ratios (VE/VCO2 and VE/VO2, respectively), O2 pulse, heart rate reserve (HRR), breathing reserve (BR) and end-tidal carbon dioxide pressure (PETCO2) were focused.

**Results:** Although limited sample size, the current study showed that VO2/Kg, VE/VCO2, PETCO2, and SPO2 are the main parameters affected by dialysis as expected.

**Conclusion**: The current study suggests using cardiopulmonary rehabilitation for all chronic medical conditions such as chronic kidney disease and end stage renal disease that increase the rate of metabolic acidosis.

**Keywords:** End stage renal disease, Cardiopulmonary exercise test, Dialysis, VO2/kg, PETCO2