

## Cognitive Impairment in Chronic Renal Patients on Hemodialysis

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**Abstract :** Chronic renal disease (CKD), accompanied by hemodialysis, causes chronic renal failure in a number of situations that compromises not only physical, personal and environmental aspects, but also psychological, social and family aspects. Objective: To verify the level of cognitive impairment of chronic renal patients on hemodialysis. Methodology: This is a descriptive, cross-sectional study. The present study was performed in a Dialysis Center of a city in the interior of the State of São Paulo. The inclusion criteria were: being 18 years or older; have a medical diagnosis of CKD; being in hemodialysis treatment in this unit; and agree to participate in the research, with the signature of the Informed Consent (TCLE). A total of 115 participants were evaluated through the Participant Characterization Instrument and the Addenbrooke Cognitive Exam - Revised Version (ACE-R), being scored from 0 to 100, stipulating the cut-off note for the complete battery <78 and subdivided into five domains: attention and guidance; memory; fluency; language; (66.9%) and caucasian (54.7%), 53.7 ( $\pm 14.8$ ) years old. Most of the participants were retired (74.7%), with incomplete elementary schooling (36.5%) and the average time of treatment was 46 months. Most of the participants (61.3%) presented impairment in the area of attention and orientation, 80.4% in the spatial visual domain. Regarding the total ACE-R score, 75.7% of the participants presented scores below the established cut grade. Conclusion: There was a high percentage (75.7%) below the cut-off score established for ACE-R, suggesting that there may be some cognitive impairment among these participants, since the instrument only performs a screening on cognitive health. The results of the study are extremely important so that possible interventions can be traced in order to minimize impairment, thus improving the quality of life of chronic renal patients.

**Keywords :** cognition, chronic renal insufficiency, adult health, dialysis

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