



Anticle

Clinical Significance of Nutritional Status, Inflammation, and Body Composition in Elderly Hemodialysis Patients—A Case-Control Study

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Abstract: Nutritional and inflammatory disorders are factors that increase the risk of adverse clinical outcomes and mortality in elderly hemodialysis (HD) patients. This study aimed to examine nutritional and inflammation status as well as body composition in older adults on HD compared to matched controls. A case-control study was conducted on 168 older participants (84 HD patients (cases) and 84 controls) age- and sex-matched. Demographic, clinical, anthropometric, and laboratory parameters were collected from medical records. The primary outcome was nutritional status assessment using a combination of nutritional and inflammatory markers along with the geriatric nutritional risk index (GNRI). Sarcopenic obesity (SO) was studied by the combined application of anthropometric measures. Body composition and hydration status were assessed by bioelectrical impedance analysis (BIA). Univariate and multivariate regression analyses were performed to identify nutritional and inflammatory independent risk indicators in elderly HD patients and controls. A significantly high prevalence of nutritional risk measured by the GNRI was found in HD patients (32.1%) compared to controls (6.0%) (p < 0.001). Elderly HD patients were overweight and had lower percent arm muscle circumference, phase angle (PA), serum albumin (s-albumin), as well as higher percent extracellular body water (ECW%) and serum C-reactive protein (s-CRP) than controls (all at least, p < 0.01). SO was higher in HD patients (15.50%) than in controls (14.30%). By multi-regression. analyses, age < 75 years (OR: 0.119; 95%CI: 0.036 to 0.388), ECW% (OR: 1.162; 95%CI: 1.061 to 1.273), PA (OR: 0.099; 95%-Cl: 0.036 to 0.271), as well as BMI, s-albumin ≥ 3.8 g/dL, and lower s-CRP were independently related between cases and controls (all at least, p < 0.05). Elderly HD patients had increased nutritional risk, 50, inflammation, overhydration, and metabolic derangements compared to controls. This study highlights the importance of identifying nutritional risk along with inflammation profile and associated body composition disorders in the nutritional care of elderly HD patients. Further studies are needed to prevent nutritional disorders in elderly HD patients.

Keywords: aging; bioimpedance analysis; body composition; case-control study; elderly; geriatric nutritional risk; bemodialysis; inflammation; obesity; older adults; phase angle; sarcopenic obesity; s-albumin

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1. Introduction

The global aging of the population, with special attention to the elderly, favors the development of chronic non-communicable diseases and nutritional disorders. By the mid-century, the world's population over the age of 65 is expected to increase from 10% in 2022 to 16% in 2050 [1].

Chronic kidney disease (CKD) represents a growing public health problem in the world's aging population. The number of people receiving renal replacement therapy (RRT) is expected to reach 5439 million dialysis patients by 2030 [2]. The most common

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Table of Contents Nutritional Clinical Significance Of

- 1. Understanding the eBook Nutritional Clinical Significance Of
 - The Rise of Digital Reading Nutritional Clinical Significance Of
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Nutritional Clinical Significance Of
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Nutritional Clinical Significance Of
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Nutritional Clinical Significance Of
 - Personalized Recommendations
 - Nutritional Clinical Significance Of User Reviews and Ratings
 - Nutritional Clinical Significance Of and Bestseller Lists
- 5. Accessing Nutritional Clinical Significance Of Free and Paid eBooks
 - Nutritional Clinical Significance Of Public Domain eBooks
 - Nutritional Clinical Significance Of eBook Subscription Services

- Nutritional Clinical Significance Of Budget-Friendly Options
- 6. Navigating Nutritional Clinical Significance Of eBook Formats
 - ∘ ePub, PDF, MOBI, and More
 - Nutritional Clinical Significance Of Compatibility with Devices
 - Nutritional Clinical Significance Of Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Nutritional Clinical Significance Of
 - Highlighting and Note-Taking Nutritional Clinical Significance Of
 - Interactive Elements Nutritional Clinical Significance Of
- 8. Staying Engaged with Nutritional Clinical Significance Of
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Nutritional Clinical Significance Of
- 9. Balancing eBooks and Physical Books Nutritional Clinical Significance Of
 - Benefits of a Digital Library
 - o Creating a Diverse Reading Collection Nutritional Clinical Significance Of
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Nutritional Clinical Significance Of
 - Setting Reading Goals Nutritional Clinical Significance Of
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Nutritional Clinical Significance Of
 - Fact-Checking eBook Content of Nutritional Clinical Significance Of
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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