

STRUCTURAL EQUATION MODELING-PARTIAL LEAST SQUARES (SEM-PLS) METHOD IN ANALYSIS OF THE EFFECT OF ANXIETY, FAMILY FUNCTION AND DEPRESSION ON THE QUALITY OF LIFE OF HEMODIALYSIS PATIENTS

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Abstract

This research aims to analyze the impact of worry/anxiety, family function, and depression on the quality of life of hemodialysis patients, using the Structural Equation Modeling-Partial Least Squares (SEM-PLS) method. Data was collected from 58 hemodialysis patients at RSUD Dr. R. Soedjati Soemodiardjo Purwodadi Grobogan used a questionnaire that included an anxiety scale, family function scale, depression scale and quality of life scale. Data analysis was carried out using the SEM-PLS technique to test the relationship between variables. The results showed that anxiety had a significant influence on the patient's level of depression. This influence is a unidirectional influence, meaning that if the patient's anxiety increases, the level of depression also increases. Anxiety also has a significant influence on the quality of life of hemodialysis patients. This influence is a negative influence, meaning that increasing anxiety causes the patient's quality of life to decrease. Conversely, if anxiety decreases, the patient's quality of life increases.

Keywords: Hemodialysis, Anxiety, Family Function, Depression, Quality of Life, Structural Equation Modeling-Partial Least Squares (SEM-PLS)

INTRODUCTION

Quality of life is an important aspect that needs to be considered in the care of hemodialysis patients. Patients undergoing hemodialysis procedures often face various physical, psychological, and social challenges that can significantly affect their quality of life. In this context, factors such as anxiety level, family functioning, and the presence of depressive symptoms may have a strong impact on the quality of life of hemodialysis patients.

Anxiety and depression are two important aspects that are often experienced by hemodialysis patients. Physical discomfort, lifestyle changes, and uncertainty about their future health can be the main causes of anxiety and depression. Meanwhile, family function also has a significant role in determining how patients overcome these challenges, with strong support from the family environment can help improve the patient's quality of life.

This research concept, using a Structural Equation Modeling (SEM) approach, will allow examining the complex relationship between worry, family function, depression, and quality of life in hemodialysis patients. The existence of depression variables as mediating variables is equally useful in understanding the mediating role