



Hemoglobin, Transferrin Saturation and Ferritin Profiles and Quality of Life in Chronic Kidney Disease Patients Undergoing Routine Hemodialysis in Sanglah Hospital

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Abstract

Anemia contributes to the increase in cardiovascular risk, the need for hospitalization, the length of treatment and the decrease in the quality of life of chronic kidney diseases (CKD) patients. This study aims to determine hemoglobin (Hb), transferrin saturation (TS) and serum ferritin (SF) profile and quality of life in CKD patients undergoing routine hemodialysis. A descriptive analytical study was conducted on 222 CKD patients at Sanglah General Hospital in Denpasar from January to December 2018. Hemoglobin, TS, and SF data were obtained from medical records and quality of life was measured using Kidney Disease Quality of Life Short Form (KDQOL-SF) version 1.3. Data were presented as mean \pm standard deviation.

Observations in the 1st, 4th, 7th, 10th, and 12th month demonstrate mean Hb (g/dL) of 10.83 ± 2.29 , 11.04 ± 2.68 , 10.81 ± 2.11 , 10.73 ± 2.19 and 10.50 ± 2.70 , respectively, mean TS (%) of 31.63 ± 12.92 , 32.63 ± 14.20 , 35.07 ± 16.21 , 25.82 ± 11.51 , 46.98 ± 29.00 , respectively, and mean SF (ng/mL) of 908.53 ± 709.14 , 752.19 ± 589.88 , 796.33 ± 491.17 , 393.31 ± 476.51 , 178.70 ± 00.00 , respectively. Quality of life in the 1st and 12th month were 59.19 ± 20.87 and 56.62 ± 21.44 , respectively. Based on these results, Hb, TS, and quality of life in CKD patients undergoing routine hemodialysis tend to be decreased within one year.

Biography

Yuswanto Setyawan has completed his residency in Internal Medicine, at the age of 36 years, at Sam Ratulangi University, Manado, Indonesia. He is currently enrolled at the Nephrology and Hypertension Subspecialty Program at the Faculty of Medicine-Udayana University/Sanglah Hospital, Denpasar, Bali, Indonesia.

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