

中文題目：台灣末期腎病變患者的血液項分析：一個醫學中心的橫斷研究

英文題目：Hemogram in hemodialysis patients with end stage kidney disease in Taiwan: A cross-sectional study in a tertiary medical center

作者：¹吳品翰 ²陳建源 ³陳怡婷 ³賴俊夫 ³陳永銘

服務單位：¹國立臺灣大學醫學院附設醫院內科部，²國立臺灣大學醫學院附設醫院血液腫瘤科，³國立臺灣大學醫學院附設醫院腎臟科

Background

Anemia was a high burden in chronic kidney disease (CKD) patients. Anemia is associated with overall survival and quality of life in CKD patients. Blood transfusion and erythropoietin stimulating agent (ESA) were essential for patients with ESRD. However, rare real-world data was reported in previous literature. This study aimed to characterize the hematological profile and transfusion need in hemodialysis patients with end stage kidney disease.

Method

The data collection of this cross-sectional study was obtained in March, 2021, from the patients with end stage kidney disease under maintenance hemodialysis for at least 3 months.

Result

This study samples were composed of 150 ESKD cases. 4 of them were excluded due to prohibiting administration of ESA for active neoplasms. The hematological profiles of all cases were reviewed and analyzed. The leukopenia, neutropenia, and thrombocytopenia were lowered in abnormal hemogram group. Ferritin, transferrin saturation, and resistance of erythropoietin stimulating agent (ESA) were significant high in abnormal hemogram group. Transfusion amounts are associated with anemia level, ESA response, HD duration, Kt/V, Ferritin level and albumin($P<0.05$).

Conclusion

Abnormal hematological profile, including leukopenia, neutropenia, and thrombocytopenia was not uncommon in ESKD patient and associated with ESA resistance.