

Biomarkers for Assessing and Managing Iron Deficiency Anemia in Late-Stage Chronic Kidney Disease: Future Research Needs: Future Research Needs Paper Number 33



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(Meagan Roob)

BIOMARKERS FOR ASSESSING AND MANAGING IRON DEFICIENCY ANEMIA IN LATE-STAGE CHRONIC KIDNEY DISEASE: FUTURE RESEARCH NEEDS: FUTURE RESEARCH NEEDS PAPER NUMBER 33

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Createspace. Paperback. Book Condition: New. This item is printed on demand. Paperback. 52 pages. Dimensions: 11.0in. x 8.5in. x 0.1in. Anemia is a common complication of chronic kidney disease (CKD). The management of anemia in CKD patients must strike an appropriate balance between stimulating generation of erythroblasts (erythropoiesis) and maintaining sufficient iron levels for optimum hemoglobin (Hb) production. As such, it is important to assess iron stores and the availability of iron for erythropoiesis, as adequate iron status is integral to both iron and anemia managements in CKD patients. Classical iron status tests, of which ferritin and transferrin saturation (TSAT) are the most widely used, exhibit large biological variability in the context of underlying inflammation of CKD. The accurate assessment of iron status is dependent on the validity and reliability of laboratory test results, and differences in test performance pose a dilemma regarding the most appropriate test to guide treatment decisions. Several novel biomarkers of iron status have been proposed as alternatives to the classical iron status tests. These include hemoglobin content of reticulocytes (CHr), reticulocyte hemoglobin equivalent (RetHe), percentage of hypochromic erythrocytes (HYPO), erythrocyte zinc protoporphyrin (ZPP), soluble transferrin receptor (sTfR), and hepcidin. In addition, Superconducting Quantum Interference Devices (SQUIDS) are an alternative non-invasive means for detecting and quantifying liver iron content, via the paramagnetic properties of iron (magnetic resonance diminishes in the liver as iron concentration increases). The Tufts Evidence-based Practice Center (EPC) conducted a Comparative Effectiveness Review (CER) to systematically evaluate studies that examined the impact on patient-centered outcomes of using the newer laboratory biomarkers as a replacement for or as an add-on to classical laboratory biomarkers of iron status for assessing iron status and the management of iron deficiency in adult and pediatric CKD patients (nondialysis and dialysis). The Key Questions for the CER are presented below:...



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