

12

Name of Journal: *World Journal of Clinical Cases***Manuscript NO:** 61573**Manuscript Type:** CASE REPORT

Roxadustat as treatment for a blood transfusion-dependent maintenance hemodialysis patient: A case report and review of literature

Renal anemia

Abstract

BACKGROUND

Erythropoiesis-stimulating agents (ESAs) have revolutionized the therapeutic strategy for anemia in chronic kidney disease (CKD). However, some cases are resistant or hyporesponsive to ESAs. Roxadustat is an oral hypoxia-inducible factor (HIF) prolyl hydroxylase inhibitor that stimulates erythropoiesis and regulates iron metabolism. Here, we describe a hemodialysis patient with refractory anemia who did not respond to traditional treatments and depended on blood transfusion for more than one year.

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Background: **Roxadustat** is an oral hypoxia-inducible factor prolyl hydroxylase inhibitor approved in China for **dialysis-dependent CKD anemia**. Methods: This phase 3, 24-week, double-blind, double ...

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There are currently more than 15 phase 3 clinical trials underway with a target enrollment of about 10,000 **patients** worldwide, studying the safety, efficacy, and long-term effects of **roxadustat** in CKD **patients**, including non-**dialysis**-dependent [23,24,25,26], **hemodialysis**-dependent [22,25,27,28,29] and peritoneal **dialysis**-dependent subjects [25 ...

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