[PICTURES IN CLINICAL MEDICINE]

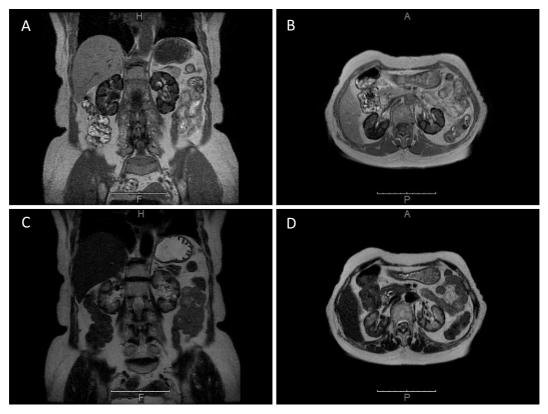
Low Signal Intensity of Kidney Cortex with Chronic Kidney Disease

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Key words: paroxysmal nocturnal hematuria, magnetic resonance imaging, chronic kidney disease

(Intern Med 61: 129-130, 2022)

(DOI: 10.2169/internalmedicine.7682-21)



Picture.

A 68-year-old woman presented with exacerbation of chronic kidney disease (CKD). She had anemia and throm-bocytopenia and had been diagnosed with myelodysplastic syndrome over 10 years ago. Cyclosporine was discontinued because her estimated glomerular filtration rate (eGFR) had declined. After 6 months, her hemoglobin level declined with a high reticulocyte count, lactate dehydrogenase (LDH) level of 901 IU/L, and undetectable haptoglobin level, indicating intravascular hemolysis. Abdominal magnetic reso-

nance imaging (MRI) showed a low signal intensity of the renal cortex in both T1- (Picture A, B) and T2-weighted images (Picture C, D) and reversed cortico-medullary differentiation, suggesting renal hemosiderosis (1). The results of a Coombs test and flow cytometric analysis were consistent with a diagnosis of paroxysmal nocturnal hematuria (PNH). The administration of eculizumab was started. The LDH level returned to normal, and the eGFR improved from 28 to 40 mL/min, remaining stable for over a year. When CKD

Received: April 5, 2021; Accepted: May 10, 2021; Advance Publication by J-STAGE: June 26, 2021

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is associated with possible bone marrow failure or intermittent colored urine, MRI might help establish a diagnosis.

The authors state that they have no Conflict of Interest (COI).

JW. MRI of the kidneys in paroxysmal nocturnal hemoglobinuria. Am J Roentgenol **146**: 51-52, 1986.

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Reference

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