A 21-year-old man underwent pre-emptive kidney transplantation from a living-related donor due to end-stage kidney disease with unknown etiology. Serum creatinine level decreased from 6.5 mg/dL to 1.6 mg/dL on the first day of transplantation. Postoperative Doppler ultrasonography was within normal limits. The following day, blood pressure increased up to 200/120 mmHg despite triple anti-hypertensive treatment. In addition, hemoglobin levels decreased from 9.4 g/dL to 7.9 g/dL. Therefore, the patient was evaluated for anemia and resistant hypertension.

Post-transplant anemia is an overlooked diagnosis. Nevertheless, it has been reported with a prevalence of up to 90% in the early stages of kidney transplantation. The pathogenesis of post-transplant anemia is multifactorial. It includes allograft dysfunction, iron deficiency, surgical blood loss, drugs, inflammation, erythropoietin deficiency, and hemolysis. Likewise, postoperative hypertension is not rare in renal transplant recipients. It occurs due to allograft dysfunction, hypervolemia, postoperative pain, drug toxicity, or renal artery stenosis.

Anti-thymocyte globulin and mycophenolic acid treatments were thought of as contributors to anemia in this case. Tacrolimus levels were within normal limits. No signs of hypervolemia or hemolysis were present. Pain management was adequate. Doppler ultrasonography showed no evidence of renal artery stenosis or hemorrhage.
on postoperative day 1; nonetheless, computed tomography was performed to rule out hemorrhagic complications. It revealed a 6 × 10 × 15 cm-sized hematoma on the posterior aspect of the allograft (Figure 1, upper images). Hence, Page kidney diagnosis was made.

Page kidney is a rare cause of hypertension in both native kidneys and allografts. Secondary hyperaldosteronism related to external compression drives the pathogenesis of this phenomenon. It can occur due to hematoma, urinoma, or lymphocele after trauma, biopsy, and surgical complications. It is usually related to subcapsular hematoma. However, a perirenal hematoma that compresses the kidney can also cause Page kidney, similar to the present case. After surgical hematoma evacuation, hemodynamic stabilization was restored rapidly (Figure 1, lower images)

Although postoperative hemorrhagic complications usually cause hypotension, Page kidney must be borne in mind as an exception.

Patient Consent for Publication: Written informed consent was obtained from the patient.


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