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**WE CANNOT FORGET ABOUT PROPER MAINTENANCE OF FISTULA FOR  
DIALYSIS AFTER SUCCESSFUL KIDNEY TRANSPLANTATION. A RARE CASE OF  
ANEURYSM OF ARTERIOVENOUS FISTULA**

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**Introduction.** Patients with end-stage renal disease need a renal replacement therapy, that is dialysis or kidney transplant. Most of them undergo hemodialysis through created arteriovenous fistula while waiting for the proper donor for the kidney transplantation. All fistulas should be assessed after their creation for appropriate maturation and examined at each dialysis session in order to prevent complications and problems with dialysis.

**Case description.** 38 years old patient with history of end-stage renal disease and successful kidney transplantation two years before, was admitted to Vascular Surgery and Transplantation Department with rapidly expanding aneurysm of arteriovenous fistula on the left arm. Because kidney transplantation was performed pre-emptively, that is without prior dialyses, the created fistula has never been used for hemodialysis. On admission the aneurysm had dimensions of 15 by 20 cm and showed rapid progression. That enlargement of the artery entails considerable stress to wall of the artery and weakening of the vessel may likely lead to a rupture. For this reason, the surgical procedure was performed urgently. The aneurysm was excised, the brachial artery was reconstructed, the fistula was closed. Proper blood supply to the limb was obtained.

**Conclusions.** Proper fistula maintenance and care should be taken in order to avoid infections and injury to the vessels, which can lead to stenosis and thrombosis. Aneurysm of arteriovenous fistula, although much rarer, should also be considered as probable complication. Although the fistula is no longer used after successful transplantation, it should still be examined regularly. The follow up must as well involve assessment of eventual enlargement of fistula vessels.