

Kidney disease treatment may harm patients

12 October 2007

Central venous catheters are commonly used to provide permanent hemodialysis for patients with serious kidney disease. One technique, inserting a catheter through large vessels, has been commonly used worldwide in recent years. A new study published in *Hemodialysis International* finds that this treatment may block the blood flow in the vessel, leading to superior vena cava syndrome (SVC syndrome), a highly serious complication caused by the obstruction of blood coming to the heart from the upper body.

The warning signs of SVC syndrome include shortness of breath, swelling of the upper limbs, neck and face, which occur as the catheter, generally inserted into a large blood vessel, blocks blood flow. The study stresses the need for clinicians to be able to identify SVC syndrome symptoms in order to prevent more serious complications.

“The increasing use of central vein catheters for long-term hemodialysis has contributed high rates of complications,” concludes Hadim Akođlu, M.D., author of the study. “It seems that SVC syndrome due to central vein catheters will become an important threat as the popularity of this treatment continues to grow.”

Akođlu suggests that the harmful effects of SVC syndrome can be counteracted if catheters are only used for short periods of time. Treatments for SVC syndrome are also being devised, including thrombolytic therapy, where blood clots are pharmacologically dissolved; percutaneous transluminal balloon angioplasty (PTA); intravascular stent placement; and surgical reconstruction, which re-opens blood flow access in the vessel.

Source: Blackwell Publishing Ltd.

APA citation: Kidney disease treatment may harm patients (2007, October 12) retrieved 3 May 2021 from <https://medicalxpress.com/news/2007-10-kidney-disease-treatment-patients.html>

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