1. Trerotola, S.O., *Hemodialysis catheter placement and management.* Radiology, 2000. **215**(3): p. 651-658.

2. Stolic, R.V. and S.P. Milojevic, *Laceration of the iliac vein in a patient with a femoral catheter for hemodialysis.* International journal of nephrology, 2011. **2011**.

3. Shaldon, S., L. Chiandussi, and B. Higgs, *Haemodialysis by percutaneous catheterisation of the femoral artery and vein with regional heparinisation.* The Lancet, 1961. **278**(7207): p. 857-859.

4. Stolić, R., et al., *Central venous catheter for hemodialysis: Current problems.* Praxis medica, 2005. **33**(1-2): p. 55-58.

5. Sharp, K., et al., *Diagnosis and management of retroperitoneal hematomas after femoral vein cannulation for hemodialysis.* Surgery, 1984. **95**(1): p. 90-95.

6. Reddan, D., et al., *National profile of practice patterns for hemodialysis vascular access in the United States.* Journal of the American Society of Nephrology, 2002. **13**(8): p. 2117-2124.

7. Ončevski, A., P. Dejanov, and V. Gerasimovska, *Our experience with vascular approach to hemodialysis.* Mak Med Pregled, 2001. **55**(suppl 49): p. 148-58.

8. Kjellstrand, C., et al., *Complications of percutaneous femoral vein catheterizations for hemodialysis.* Clinical nephrology, 1975. **4**(1): p. 37-40.

9. Mickley, V., *Central venous catheters: many questions, few answers.* Nephrology Dialysis Transplantation, 2002. **17**(8): p. 1368-1373.

10. Jefferys, A., J.S. Chow, and M.G. SURANYI, *Acute vascular access catheters for haemodialysis: complications limiting technique survival.* Nephrology, 2003. **8**(1): p. 16-20.

11. Fuchs, H., et al., *Percutaneous puncture of the femoral vein for haemodialysis: report of 5000 punctures (author's transl).* Deutsche medizinische Wochenschrift (1946), 1977. **102**(36): p. 1280-1284.

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| Case Report |

**A Case Report of death from retroperitoneal hematoma following femoral vein Catheterization**

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| Abstract |  |
| Femoral vein catheterization is one of the most common venous accesses for dialysis. Various complications such as bleeding and arterial damage and arterio venous fistula have been reported for this procedure. One of the rare but fatal complications of this procedure is retroperitoneal hematoma due to damage to the vein wall. The most important point in preventing these complications is the proper technique in placement of the catheter. In this study, we introduce a case of death from a very rare and potentially fatal complication of this technique, retroperitoneal hematoma. |
| **Key words:** Femoral vein catheterization, retroperitoneal hematoma |