

심근경색 환자에서의 헤파린 사용시 장요근 혈종과 연관된 후복막강내 자발적 출혈 1예

김효정 · 김도연 · 황민규 · 조홍근

A Case of Spontaneous Retroperitoneal Hemorrhage due to Iliopsoas Muscle Hematoma in Patient with Myocardial Infarction Receiving Intravenous Heparin

Hyo-Jeong Kim, MD, Do-Yeon Kim, MD, Min-Gyu Whang, MD and Hong-Kun Jo, MD

Department of Internal Medicine, Ewha Women University, Seoul, Korea

ABSTRACT

The most common adverse effect of intravenous heparin is hemorrhage. Of these, retroperitoneal hemorrhage and femoral neuropathy secondary to heparin anticoagulation has reported in 1966 for the first time by DeBolt and Jordan. We experienced a case of spontaneous retroperitoneal hemorrhage due to iliopsoas muscle hematoma in patient with myocardial infarction receiving intravenous heparin for 3 days in therapeutic doses. The pathophysiology of iliopsoas muscle hematoma has not yet been cleared. But because of the possibility of large amount in volume, retroperitoneal hemorrhage has been known as a serious adverse effect that leads to the hypovolemic shock and death. In this article, we described the clinical manifestation, the importance of the early diagnosis and diagnostic clues and associated factors of the retroperitoneal hemorrhage in patient receiving intravenous heparin. (Korean Circulation J 1998;28(10):1798-1801)

KEY WORDS : Heparin · Iliopsoas muscle hematoma · Retroperitoneal hemorrhage.

서 론

가¹⁾ , 가²⁾ 3
가
가¹⁾ , 1
가 , .

: 1998 7 30

: 1998 11 19

: , 158 - 710

911 - 1

증 례

: (02) 650 - 5272 · : (02) 652 - 3485
E - mail : EWHA@chollian.net

/ : /69 .

:

: 3
 : 1991
 1996 1997
 3
 . 40 3
 . 1996 PT, aPTT
 . 가
 : 170/100 mmHg,
 66 / , 22 / 36
 : 14.9 g/dL,
 43.8%, 10,100/mm³, 102
 K/mm³ 171
 mg/dL, CPK 203 IU/L, LDH 358 IU/L, AST 167 IU/L
 . BT 3.0 , PT 13.4 , aPTT 32.4
 factor VIII protein C, S
 aPTT
 : Lead II, III, aVF 80 mmHg
 0.3 mV ST 가 6 g/dL
 : 50%
 : 150
 kg 20
 5,000 1,000
 가
 ACE inhibitor
 가



Fig. 1. Retroperitoneal hematoma in patient with myocardial infarction receiving intravenous heparin therapy.



Fig. 2. Follow up CT after 7 days.

: 2
 3
 ,
 ST
 80 mmHg
 가 6 g/dL
 가 9×10×11 cm
 5 U
 고 찰

가¹⁾ , 2 g/dl , 2 1966 DeBolt Jordan , 2 5-7)9-11) 12-14) 1990 . 가 , 1996 Sasson 1966 1995 , 51 , 2) Von 가 1997 2 Willbrand's disease 가 Moldonado Pardo R. , 5 16) aPTT 2 3 6 2 가 가 3 5 . aPTT 2 4 , , 18% 37%가 9×10×11 cm 3) 가 , 가 3) 1997 4 Di Rosa C 가 가 15) 가 Craig 가 14 1997 416 1) , , , Von Willbrand's disease 가

중심 단어 :

REFERENCES

- 1) Craig P Tuergens, MBBS, Christopher Semsarian, MBBS, Anthony C Keech, MBBS, et al. Hemorrhagic complications of intravenous heparin use. *Am J Cardiol* 1997;80:150-4.
- 2) Z Sasson, I Mangat, KA Peckam. Spontaneous iliopsoas hematoma in patients with unstable coronary syndromes receiving intravenous heparin in therapeutic doses. *Can J Cardiol* 1996;12:490-4.
- 3) Federico Fernandez-Palazzi, Salvador Rivas Hernandez, Norma B De Bosch, Arlette R De Saez. Hematomas within the iliopsoas muscles in hemophilic patients. *Clinical orthopedics and related research* 1996;328:19-24.
- 4) Enayat Niakan, Jerome E Carbone, Mark Adams, Franz M Schroeder. Anticoagulants, iliopsoas hematoma and femoral nerve compression. *AFP* 1991;44:2100-2.
- 5) Venkatachala I Sreenivas, Orlando Pelliccia, Jr, Gil Job, Edgardo P Ragaza, Franklin Robinson. Femoral neuropathy secondary to anticoagulant therapy. *International Surgery* March 1980;65:279-81.
- 6) Phillip G. Spiegel, James L. Meltzer. Femoral nerve neuropathy secondary to anticoagulation. *The Journal of Bone and Joint Surgery* March 1974;56-A:425-7.
- 7) JW Brantigan, ML Owens, FG Moody. Femoral neuropathy complicating anticoagulant therapy. *The American Journal of Surgery* July 1976;132:108-9.
- 8) Mark B Stein, Phillip Spiegel. Femoral neuropathy as a complication of heparin anticoagulation therapy. *Clinical Orthopedics and Related Research* January-February 1975;106:140-2.
- 9) Butterfield WC, Neviaser RJ, Roberts MP. Femoral neuropathy and anticoagulants. *Ann Surg* 1972;176:58-61.
- 10) Wu Shung Chiu. The syndrome of retroperitoneal hemorrhage and lumbar plexus neuropathy during anticoagulant therapy. *Southern Medical Journal* May 1976;69:95-9.
- 11) MR Young, JW Norris. Femoral neuropathy during anticoagulant therapy. *Neurology* December 1976;26:1173-5.
- 12) Joseph F Simeone, Franklin Robinson, Stephen LG Rothman, C Carl Jaffe. Computerized tomographic demonstration of a retroperitoneal hematoma. *J Neurosurg* 1977;47:946-8.
- 13) Leon Reinstein, Aristides C Alevizatos, Frank G Twardzik, Salvatore J Demarco, III. Femoral nerve dysfunction after retroperitoneal hemorrhage: Pathophysiology revealed by Computed Tomography. *Arch Phys Med Rehabil* January 1984;65:37-40.
- 14) Yechiel D Heilbronn, Virgil L Williams, Leonard I Krantzler, Fedor F Banuchi, Edir B Siqueira. CT scan of retroperitoneal hematoma with neuropathy. *Surg Neurol* September 1979;12:251-2.
- 15) Di Rosa C, Venora S, Monterosso N, La Spada NM, Viola S. Retroperitoneal hematoma during heparin therapy. *Minerva Chirurgica* Apr 1997;52:493-7.
- 16) Maldonado Pardo R, Lopez Perez A, Monteis Carot J, Rovira Plaromani A, Segales Gallifa J, et al. Hypovolemic shock due to spontaneous hemorrhage associated with heparin anticoagulant treatment: A report of 5 cases. *Anales de Medicina Interna* 1997;14:576-8.