INTRODUCTION

Iliopsoas hematoma (IPH) is a rare but potentially serious complication that can occur in anticoagulated patients. The symptoms and natural history range from slight pain to femoral neuropathy or precipitous shock and cardiovascular collapse [1]. We report an unusual case of spontaneous IPH accompanied by severe hemorrhagic shock.

CASE REPORT

An 85-year-old male patient was hospitalized with the diagnosis of decompensated chronic heart failure. His past medical history included coronary artery disease, diabetes mellitus, prostate cancer, and atrial fibrillation. On physical examination, he had positive pretibial edema (+3) and rough breath sounds. His heart rate was 120 beats per minute, and blood pressure was 110/70 mm Hg. His home medications were monopril, aspirin, repaglinide, carvedilol, atorvastatin, and furosemide. He had no personal history of trauma or bleeding event for several months prior to admission. Echocardiogram revealed a left ventricular ejection fraction of 30% with global hypokinesia and pulmonary hypertension. Enoxaparine (0.3 mg/kg once daily) was started for deep vein thrombosis prophylaxis and atrial fibrillation because he had a low body weight (57 kg), and the creatinine clearance was less than 30 mL/min. The platelet cell count, prothrombin time, and activated partial thromboplastin time were within normal ranges. On the fifth day of admission, the patient reported right groin and hip pain with restriction of right hip movement. On physical examination, there was extreme sensitivity in the right groin and hip with flexion and extension, known as the psoas sign. Abdominal ultrasonography showed loculated fluid in the psoas muscle. Abdominal computed tomography (CT) revealed a right iliopsoas muscle hematoma (Fig. 1). The general surgery and orthopedic clinics were consulted for urgent surgery. Despite packed red blood cell concentrate and fluid transfusions, the control hemoglobin level dropped from 11 gr/dL to 6 gr/dL. After a few hours, the patient’s blood pressure dropped, and cardiovascular collapse developed. Cardiopulmonary resuscitation was started, but the patient died. Informed consent was obtained.

DISCUSSION

IPH is defined as a spontaneous or traumatic retroperitoneal collection of blood involving the iliopsoas muscle. The incidence of retroperitoneal bleeding in patients undergoing anticoagulation has been reported to range from 0.1% to 0.6% [2]. Risk factors for spontaneous IPH include bleeding diathesis, trauma, anticoagulant treatment, and advanced age. Although the pathogenesis and pathophysiology of retroperitoneal bleed-
Treatment of IPH depends on the speed of hemorrhage, hemodynamic status, and neurological deficit. Small hematomas usually require conservative management. Surgical intervention is mandatory for severe motor dysfunction or hemorrhagic shock [5].

In conclusion, IPH is troublesome for both clinicians and surgeons. The risk of hemorrhage is not associated with the amount of heparin administered, and hemorrhage can occur even at therapeutic levels. Physicians should include IPH in differential diagnosis, before musculoskeletal pain, when treating a patient on anticoagulant therapy with new onset or worsening hip and groin pain.

Conflicts of Interest

The authors declare that they have no conflict of interest.

REFERENCES