Spectacular Retroperitoneal Impalement

Marcello Picchio, MD*  
Onofrio Rinaldi, MD†  
Antonio Sfarzo, MD†  
Domenico Palimento, MD†  
Francesco De Angelis, MD‡  
Erasmo Spaziani, MD‡

* Department of Surgery, Civil Hospital “P. Colombo”, Rome, Italy  
† Department of Surgery, Civil Hospital “S. Paolo”, Naples, Italy  
‡ Department of Surgery, University of Rome “La Sapienza”, Latina, Italy

Supervising Section Editor: Sean Henderson, MD
Submission history: Submitted May 2, 2010; Accepted May 10, 2010
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A 47-year-old woman presented with a history of an accidental fall against a glass door at home, causing a 15 cm-wide wound on the right gluteal region and hematuria. General health was good: blood pressure 115/70 mmHg with a heart rate of 100 beats/min; red cell count 4,460 x 10^3/100 mL; hemoglobin concentration 10 g/100 ml; and hematocrit 31%.

Computed tomography of the thorax and abdomen (Figure) showed the presence of a foreign body penetrating the right gluteal region and extending along the retroperitoneum. The object had passed across the entire longitudinal diameter of the right kidney. A concomitant retroperitoneal hematoma in the right perirenal space and pelvis was present.

At emergency laparotomy a 25cm piece of glass was extracted from the gluteal wound after right neurectomy and suture of a 2 cm laceration of the suprarenal inferior vena cava. The postoperative course was uneventful.

Impalement injuries are rare and may occur either as a result of fall or collision of the human body against an immobile object or by means of a mobile object penetrating a stationary subject. They often pose particular challenges in surgical management. Mortality for penetrating abdominal vena cava injury is 36%-66%.

1 Admission hypotension, suprarenal vena cava injuries and association with other visceral and/or other major vascular injuries are predictive of mortality.

Address for Correspondence: Marcello Picchio, MD, Via Giulio Cesare 58, 04100, Latina, Italy, Telephone: +39773695488. E-mail: marcello.picchio.63@alice.it.

Conflicts of Interest: By the WestJEM article submission agreement, all authors are required to disclose all affiliations, funding sources, and financial or management relationships that could be perceived as potential sources of bias. The authors disclosed none.

REFERENCES