



CLINICAL IMAGE OF THE MONTH. SOLUTION

Solution to Case 2. Leiomyosarcoma of the inferior vena cava revealed by lower extremities edema



Solución del caso 2. Leiomiosarcoma de vena cava inferior y edema de extremidades inferiores

M. Mahmoud*, M.B. Messaoud, H. Riahi, O. Azaiz

Medical Imaging Department La Rabta, Tunis El Manar University, Tunis, Tunisia

Received 14 January 2014; accepted 27 March 2014

Commentation

In this patient, abdominal CT scan revealed a large retroperitoneal solid mass heterogeneously enhanced after contrast injection (Fig. 1). This mass was centered on the inferior under renal vena cava which was no more individualized. It had irregular borders and was associated with iliac veins thrombosis. It invaded the lumbar segment of right ureter. It invaded the right psoas muscle and was in contact with the spine. Onward, it came in contact with the third duodenum. The inferior vena cava above renal was permeable (Fig. 2).

The patient underwent CT-guided needle core biopsy. Histological examination showed a malignant mesenchymal proliferation. An immunohistochemical study was performed. Morphological and immunohistochemical features were consistent with leiomyosarcoma^{1,2}.



Figure 1 Abdominal CT scan, axial view: large retroperitoneal solid mass (white arrowheads), heterogeneously enhanced after contrast injection, with large contact with aorta and no visualization of the inferior vena cava.

DOI of original article: <http://dx.doi.org/10.1016/j.angiologia.2014.02.013>

* Corresponding author.

E-mail address: Mahmoud.maha@gmail.com (M. Mahmoud).

<http://dx.doi.org/10.1016/j.angiologia.2014.03.006>

0003-3170/© 2014 SEACV. Published by Elsevier España, S.L. All rights reserved.

Answer to question: b.

Diagnosis: Histológico (biopsia guiada por TC): Leiomiosarcoma.



Figure 2 Abdominal CT scan, frontal view: heterogeneous mass (white star) centered on the inferior under renal vena cava causing iliac veins thrombosis (white arrows) which are no more filled with contrast. Above renal inferior vena cava (black arrows).

References

1. Kulaylat MN, Karakousis CP, Doerr RJ, Karamanoukian HL, O'Brien J, Peer R. Leiomyosarcoma of the inferior vena cava: a clinicopathologic review and report of three cases. *J Surg Oncol.* 1997;65:205–17.
2. Mingoli A, Feldhaus RJ, Cavallaro A, Stipa S. Leiomyosarcoma of the inferior vena cava: analysis and search of world literature on 141 patients and report of three new cases. *J Vasc Surg.* 1991;14:688–99.