Focal Nodular Hyperplasia: A Rare Indication of Resection
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Abstract
Surgical indications of Focal Nodular Hyperplasia (FNH) remain exceptional except in cases of diagnostic uncertainty, symptomatic lesion or increase of tumour volume. We describe the case of FNH compressing the Inferior Vena Cava (IVC).

Case Report
A 33 years old female patient was admitted on an emergency basis for severe abdominal pain, spontaneously resolving within a few hours. The physical examination confirmed abdominal sensibility without signs of peritoneal irritation. The abdominal CT-scan showed ovarian varix and squeal of torsion of the right annex which was spontaneously reduced.

Few days later, clinical examination objectivated lower limbs oedema. Laboratory tests were normal but an abdominal ultrasound demonstrated a liver tumour of 90 mm located in the 5th segment. CT and MRI assessment (Figures 1 and 2) described a central scar into the mass as well as an inferior vena cava compression (Figures 3 and 4). The diagnosis of symptomatic focal nodular hyperplasia (FNH) was, then, established.

Because of the importance of inferior vena cava compression causing lower limbs oedema and possibly explaining the ovarian varix, as well as real risk of IVC thrombosis, surgical resection was indicated. Intraoperative ultrasound evaluation confirmed a net compression of the IVC. Resection of segment V was performed. The histologic of the removed tumour is microscopic typical appearance of Focal Nodular

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Hyperplasia (Figure 5). The immediate postoperative course was uneventful. The MRI control (Figures 6 and 7) objectifies surgical site without anomaly and the diameter of the vena cava is back to normal. Clinically the lower limbs oedema disappeared.

Discussion

FNH is a benign idiopathic fleshy tumour of the liver, ten times more common than adenoma and is found at any age but mainly in adults. There is a female predominance (9:1). The lesion is usually single (80% of cases). Tumour is more or less rounded, lobulated and well demarcated but not encapsulated with a diameter ranging from one to several centimetres. FNH is usually asymptomatic. When the tumour is large, it may be painful. Other symptoms described [1] are loss of appetite, nausea, vomiting and weight loss.

Some cases reported of FNH complications mention dilatation of intrahepatic bile duct [2], compression of portal vein [3], compression of stomach [4], compression of inferior vena cava [4], intra-tumor bleeding [5] and intra-peritoneal rupture [6].

Because of this benign evolution, therapeutic abstention is currently recommended if the diagnosis of FNH is established with certainty, including MRI assisted by echo-Doppler, and in the absence of symptoms. This attitude is justified by exceptional complications and no risk of cancer. The arguments for the intervention were significant compression of vena cava with dilatation of vena cava upstream, lower limbs oedema and the possibility that the ovarian varix are responsible for the torsion of the ovary. The risk of IVC thrombosis was the major argument for the surgical decision. In literature, some cases of FNH with vascular complications requiring surgical management are described. The first case [3] is a child of 7 months with a wide FNH invading all left hepatic lobe and compressing portal vein. Another case [4] reports compression of inferior vena cava. Tumour size is a decision factor for symptomatic patients [7].

It seems, for indications remain the exception, that surgical management of these lesions is justified and this attitude is reinforced by the low rate of morbidity and mortality of the surgical procedure [8,9].

References