Gossypiboma of the Liver: CT, MRI and Intraoperative Ultrasonography Findings

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A 57-year-old woman was referred for resection of a tumor with a diameter of 6 cm located in segment 6 of the liver. Apart from a cholecystectomy 30 years previously she had no history of abdominal surgery. She complained of pain and fullness in the right upper quadrant of the abdomen. Figures 1–4 show the findings at CT, MRI, and intraoperative ultrasonography as well as the operative specimen. Histology yielded cotton remnants and necrotic material with a fibrotic capsule.

Gossypibomas (‘gossypium’ (Latin) for ‘cotton’; ‘boma’ (Kiswahili) for ‘place of concealment’) are masses formed by retained surgical sponges and reactive tissue. Other

Fig. 1. CT showing a heterogeneous mass of 6 cm embedded in segment 6 of the liver (arrow).

Fig. 2. MRI depicting wavy hypointensities within the tumor (arrow).
terms used for this condition include ‘textiloma’, ‘cottonoid’, and ‘gauzeoma’. CT-guided core needle biopsy was recently recommended for verification, but our patient opted for surgical removal of the tumor as she was symptomatic. Retained sponges may lead to abscess formation, granulomas, adhesions, chronic inflammation and fistulas or they may migrate into the intestinal lumen, causing perforation or obstruction.

Exact counts of sponges and instruments before abdominal closure are crucial for the prevention of retained foreign bodies. In the case of a gossypiboma, the damage may be limited by diagnosis and removal before serious complications arise.