Mucinous adenocarcinoma of the appendix

Sir,

Primary tumors of the appendix are unusual, and most of them (almost 85%) are carcinoids. Adenocarcinomas of the appendix are rare entities, representing <0.5% of all gastrointestinal malignancies and 4-6% over lesions of the appendix neoplasm.[1] In one series, the age-adjusted incidence of cancer of the appendix was 0.12 cases per 1,000,000 people per year.[2] Here, we report a case of a mucinous adenocarcinoma of the appendix, the workup of the diagnosis, and treatment results.

A 72-year-old woman was admitted to our hospital with a right lower abdominal mass, without any other complaints. The patient did not report any alteration of bowel habits or body weight loss. On admission, vital signs were stable. On examination of the abdomen, she had a painless soft lump in the right lower abdomen. All initial laboratory findings were normal. Computed tomography (CT) revealed a large cystic mass with irregular margins measuring 8.6 cm × 7.5 cm × 6.2 cm in the right lower abdominal cavity [Figure 1].

Exploration was performed through a midline incision. During the operation, a large gelatinous collection was found around the appendix [Figure 2]. The origin of the mass was tip of the appendix and was extended from the liver to the pelvic. Liver, uterus, and ovaries were intact. There was no lymphadenopathy. The patient underwent appendectomy, resection of the mass and peritoneal washing. The histopathological examination of the specimen surprisingly revealed a mucinous adenocarcinoma of the appendix [Figure 3]. A total colonoscopy and baseline tumor markers (carcinoembryonic antigen, CA-125, CA-19-9) were normal. The patient was referred to oncology center, and six cycles of FOLFOX chemotherapy were administered.

The patient was then scheduled for a second operation and underwent a right hemicolecctomy, which is proposed as the treatment of choice for this type of neoplasms. There was no evidence of synchronous ovarian tumor, but in order to avoid the risk of recurrence and given the age of the patient, bilateral oophorectomy was performed. No metastases were observed during the hospitalization and surveillance of 1-year. The colonoscopy and CT scan were performed 1-year later and did not reveal any malignant tumor.

In conclusion, primary adenocarcinoma of the appendix has diverse clinical manifestations. Recognition of carcinoma in the presence of an acutely inflamed appendix is difficult. Surgeons should keep in mind...
the possibility of primary appendicular malignancy when managing patients with suspected appendicular mass or acute appendicitis. Intraoperative diagnosis requires a high index of suspicion, careful intra-abdominal examination, frozen sections of all suspicious appendices, and permanent sections of all appendices. To improve the outcome, right hemicolectomy should be recommended.

AUTHOR’S CONTRIBUTION

IF, NM and ZT designed the study and were responsible for the overall study management. NM and IF prepared the manuscript. All authors approved the final version of the manuscript, and agreed for all aspects of the work.

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