A 24-year-old woman had intermittent, vague abdominal pain for eight months. Her past health history was unremarkable. Ultrasonography and a computed tomography scan of the abdomen revealed a large, well defined cyst between the spleen and the tail of the pancreas. The serum concentration of carbohydrate antigen (CA) 19-9 was 1200 U/mL (normal is less than 37 U/mL). At laparotomy, a large splenic cyst was disclosed and splenectomy was performed. Histology showed that the lesion was a benign epithelial splenic cyst.

**DISCUSSION**

True splenic cysts, by definition, have a cellular lining (as opposed to false or pseudocysts) and comprise approximately 10% of all benign, nonparasitic splenic cysts. They occur most commonly in young females. Although often asymptomatic, they may cause nonspecific abdominal symptoms. The clinical importance of true splenic cysts lies in their potential, at times fatal, to rupture or to become infected; therefore, the preferred treatment is surgical removal. True cysts are divided into epithelial and mesothelial subgroups depending on their cellular lining. There are two main hypotheses regarding histogenesis: first, the embryonic inclusion of epithelial cells from adjacent organs, and second, the post-traumatic invagination of mesothelial cells. There is also evidence that the epithelial subtype is a result of squamous metaplasia of the mesothelial lining.

CA 19-9 is considered the most useful blood test for diagnosing and managing patients with carcinoma of the pancreas. The radioimmunometric assay has a sensitivity of approximately 88% and a specificity of 90%. Although the

**CASE PRESENTATION**

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**CONCLUSION**

True splenic cysts are rare and their clinical significance lies in their potential to cause symptoms. The serum concentration of carbohydrate antigen 19-9 may be elevated in these cases and should be considered in the differential diagnosis of abdominal pain.
serum level of CA 19-9 may be elevated in patients with other gastrointestinal adenocarcinomas and benign disorders such as pancreatitis, cholangitis, cholelithiasis and hepatitis, CA 19-9 is most prominent in pancreatic adenocarcinoma. CA 19-9 is also produced by normal human epithelial cells of the pancreas, biliary tract, salivary glands, colon, endometrium and bronchial glands.

In our search of the medical literature, four other cases of true splenic cysts accompanied by elevated blood levels of CA 19-9 were found (1-4). Because the serum levels of this marker are unknown in other unpublished cases of true epithelial splenic cysts, we cannot determine whether elevated CA 19-9 levels are a rule or an exception to the rule for true splenic cysts. On the basis of previous findings and the present report, we suggest the following: CA 19-9 should be measured in all cases of splenic cysts to determine whether elevated levels are characteristic or sporadic; true epithelial cysts should be added to the list of disorders accompanied by elevated levels of this marker; and serum CA 19-9 tests should be employed cautiously when differentiating cystic pancreatic adenocarcinoma from other left upper abdominal cystic masses.

REFERENCES