mucosal distortion (Figure 3). A combination of oral mesalazine, ursodeoxycholic acid, and prednisone treatment was started. There was no diarrhea during follow-up, proteinuria decreased, and renal function improved at third month. There were no significant changes in the liver function tests. The patient presented to emergency room with complaints of fever (39°C) and shortness of breath. His chest X-ray showed diffuse interstitial pulmonary infiltrates. The patient died from an opportunistic infection (pneumonia) ten days after hospitalization.

In conclusion, here, we reported a rare case of PSC and FSGS, which concomitantly occurred prior to IBD.

#### REFERENCES

- 1. Ardizzone S, Puttini PS, Cassinotti A, Porro GB. Extraintestinal manifestations of inflammatory bowel disease. Dig Liv Dis 2008; 40: 253-9.
- 2. Oikonomou K, Kapsoritakis A, Eleftheriadis T, et al. Renal manifestations and complications of inflammatory bowel disease. Inflamm Bowel Dis 2011; 17:1034-45.



Figure 3. Intestine (x10 HE).

- 3. Navaneethan U, Shen B. Hepatopancreatobiliary manifestations and complications associated with inflammatory bowel disease, Inflamm Bowel Dis 2010; 16:1598-619.
- Venkatesh PG, Navaneethan U, Shen B. Hepatobiliary disorders and complications of inflammatory bowel disease. J Dig Dis 2011; 12:245-56.

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# Pancreatic lymphoma presenting with acute pancreatitis

## Akut pankreatitle prezente olan pankreas lenfoması

#### To the Editor,

Primary pancreatic lymphoma (PPL) is a very rare disease, accounting for less than 0.5% of pancreatic tumors (1). The clinical presentation of PPL is usually nonspecific. Most common presenting symptom reported in the literature is abdominal pain, found in about 83% of cases, followed by (in descending order of frequency) abdominal mass (58%), weight loss (50%), jaundice (37%),

Address for correspondence: Alper YAVUZ Keçiören Training and Research Hospital, Department of General Surgery, Ankara, Turkey Phone: + 90 312 378 30 59 E-mail: alperyavuz@hotmail.com acute pancreatitis (12%), small-bowel obstruction (12%), and diarrhea (12%) (2). There are few cases of PPL presenting with severe pain and acute pancreatitis in the literature (3).

A 45-year-old female presented to emergency department with worsening abdominal pain. Abdominal examination showed epigastric tenderness. The patient's laboratory findings on admission we-

Manuscript received: 03.04.2012 Accepted: 04.08.2012

doi: 10.4318/tjg.2013.0597



**Figure 1.** Computed tomography (CT) showed a 4.0×6.5 cm homogeneously enhancing mass localized superior of the pancreatic corpus.



was compatible with non-Hodgkin's diffuse large B-cell lymphoma. The patient's postoperative course was uneventful, and she was discharged from the hospital on the 19<sup>th</sup> postoperative day. A month later, she was referred to medical oncology department for chemotherapy.

The majority of PPLs are of the B-cell type (4). The 1-year survival for B-cell PPL (51.9%) has been reported to be higher than that for T-cell PPL (0%) (5). PPL can mimic pancreatic carcinoma (2). The



Figure 2. Diffuse large B-cell lymphoma (HEx400).



**Figure 3.** Diffuse CD20 positivity in the tumor (immunoperoxidase X20).

treatment and prognosis of pancreatic cancer and pancreatic lymphoma are quite different, and the differential diagnosis of these two diseases is therefore very important (6). Significant, however, is the fact that PPLs are potentially treatable (7). Regarding the treatment of PPL, chemotherapy is considered as standard.

It is advocated that surgery should be reserved for cases where percutaneous or endoscopic biopsies are not diagnostic, or treatment with chemotherapy and/or radiation therapy is not successful (8). On the other hand, for patients with symptoms caused by obstruction of biliary tract, surgical treatment may be effective (9).

PPL can present with severe abdominal pain and acute pancreatitis. This clinical presentation can masquerade the real diagnosis.

#### REFERENCES

- 1. Hamilton SR, Lauri LA. Pathology and genetics of tumours of the digestive system. In: World Health Organization Classification of Tumours. Lyon: IARC Press; 2000.
- 2. Zucca E, Roggero E, Bertoni F, Cavalli F. Primary extranodal non-Hodgkin's lymphomas: Part 1: Gastrointestinal, cutaneous and genitourinary lymphomas. Ann Oncol 1997; 8:727-37.
- 3. Mofredj A, Cadranel JF, Cazier A, et al. [Malignant pancreatic non-hodgkin's lymphoma manifesting as severe acute pancreatitis]. Gastroenterol Clin Biol 1999; 23:528-31.
- 4. Nayer H, Weir EG, Sheth S, Ali SZ. Primary pancreatic lymphomas: a cytopathologic analysis of a rare malignancy. Cancer 2004; 102:315-21.
- 5. Nishimura R, Takakuwa T, Hoshida Y, Tsujimoto M, Aozasa K. Primary pancreatic lymphoma: clinicopathological analysis of 19 cases from Japan and review of the literature. Oncology 2001; 60:322-9.

- Canto MI. Screening and surveillance approaches in familial pancreatic cancer. Gastrointest Endosc Clin N Am. 2008; 18:535-53.
- Baylor SM, Berg JW. Cross-classification and survival characteristics of 5,000 cases of cancer of the pancreas. J Surg Oncol 1973; 5:335-8.
- Mortenson MM, Katz MH, Tamm EP, et al. Current diagnosis and management of unusual pancreatic tumors. Am J Surg 2008; 196:100-13.
- Lin H, Li SD, Hu XG, Li ZS. Primary pancreatic lymphoma: report of six cases. World J Gastroenterol 2006; 12:5064-7.

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# A case of acute acalculous cholecystitis during the course of reactive Epstein-Barr virus infection

Reaktif Epstein-Barr virus enfeksiyonunda gelişen akut taşsız kolesistit olgusu

### To the Editor,

A previously healthy 8-year-old girl was admitted to our hospital with a seven-day history of fever, abdominal pain, and vomiting. On physical examination, exudative tonsillopharyngitis and cervical adenopathy were noticed. Abdominal examination revealed tenderness in the right upper quadrant. The liver and spleen were both enlarged. Laboratory investigations revealed a white blood cell count of 10.240/mm<sup>3</sup> (74% lymphocytes); alanine aminotransferase (ALT) 496 IU/L (N: 0-39 IU/L), aspartate aminotransferase (AST) 569 IU/L (N: 0-36 IU/L), alkaline phosphatase (ALP) 434 IU/L (N: 118-360 IU/L), gamma-glutamyltransferase (GGT) 103 IU/L (N: 0-23 IU/L), total serum bilirubin 4,6 mg/dL with a direct fraction of 3,2 mg/dL. Throat, blood and urine cultures showed no growth. Ultrasonographic (US) examination of the abdomen demonstrated a markedly thickened, edematous gallbladder wall with pericholecystic fluid and no evidence of gallstones or dilatation of the biliary tract. IgG antibodies for Epstein–Barr viral capsid antigen (VCA) were positive at a level of 62.21 (reference: <9), IgG antibodies for Epstein-Barr nuclear antigen (EBNA) were positive at a level of 87 (reference: <5), EBV DNA was detected by real-time polymerase chain reaction (PCR) and quantified in plasma with a viral load of 74.000 copies/mL confirming the diagnosis of reactive Epstein-Barr

Manuscript received: 22.11.2012 Accepted: 14.01.2013

doi: 10.4318/tjg.2013.0699

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