Dear Editor,

Kikuchi-Fujimoto disease (KFD), histiocytic necrotizing lymphadenitis, was first described by Japanese pathologists Kikuchi and Fujimoto. [1–3] KFD is a rare benign disease that affects young women, especially Asian women. KFD presents with painful cervical lymphadenopathy, fever episodes, fatigue, night sweat, arthralgia, odynophagia and loss of weight. [1–3] Atypical presentation and extranodal involvement, including hepatic and splenic enlargement, exist. [1–3] The etiology of KFD is not very well known; however, viruses and environmental factors have been potential factors in etiology. Laboratory tests are usually normal. Anemia, leukopenia, moderately increase in acute phase reactants and mild serum transaminase elevation may be seen. The clinical picture is not specific. [2,3] A definitive diagnosis is made by excisional lymph node biopsy and a histopathological examination. [3,5] Characteristic features include paracortical areas of necrosis, abundant karyorrhexis and mononuclear cells around the necrosis foci. [4] No specific treatment is available. Symptomatic treatment with nonsteroidal anti-inflammatory drugs and antipyretics are recommended. KFD limits itself within 1–6 months.

**Case Report**

A 27-year-old young woman was admitted to the hematology clinic for fever and painful cervical lymphadenopathy one month ago. In this patient, lymphadenopathy was not regressed under amoxicillin/clavulanic acid, spiramycin and ceftriaxone treatment. Radiological imaging revealed conglomerate lymphadenopathy in the cervical region. She underwent an excisional lymph node biopsy. She was diagnosed with lymphoma and referred to our hematology clinic for treatment.

Her medical history was remarkably normal. Physical examination was normal except for cervical enlarged lymphadenopathy. Her family history was normal. There was no family history of liver disease. Laboratory investigations included hemoglobin of 11.7 g/dl, hematocrit of 35%, white cell count of 5680 per mm3 and a platelet count of 491,000 per mm3. Her serum aspartate aminotransferase level was 1021 IU/L (normal range 15–35 IU/L), serum alanine aminotransferase was 850 IU/L (normal range 10–35 IU/L), gamma-glutamyl transpeptidase was 439 IU/L (normal range 10–38 IU/L), and alkaline phosphatase was 587 IU/L (normal range 30–120 IU/L). Total bilirubin was 1.5 mg/dL (normal range 0.3–1.2 mg/dL), and the prothrombin time was 15 seconds. The anti-nuclear antibody was found to be 1/100 positive. Serum immunoglobulin G was detected to be at a high level with 20.2 g/L (normal range: 7.5–15.6 g/L). Serological studies for viral hepatitis were all negative. Her ceruloplasmin, copper, iron, and ferritin levels were all within the normal range. Abdominal sonography documented normal liver parenchymal appearance. The patient consulted our clinic because of severe hepatitis. We did not perform a liver biopsy because of the patient’s decision. We decided autoimmune hepatitis or drug-induced liver injury and started methylprednisolone treatment intravenously, at a dose of 1mg/kg/day. At the end of the 7th day, her liver tests results improved, and then the steroid dose was tapered.

Lymph node biopsy was re-consulted. In her lymph node biopsy specimen, expanded interfollicular areas with multiple necrotic foci were observed. Histiocytes and immunoblastic cells were seen surrounding the necrotic foci, and eosinophilic apoptotic debris was present within the necrotic foci. Small lymphoid cells, plasma cells, centroblastic and immunoblastic cells, as well as an increase in histiocytic activity and vascularity within the interfollicular areas, were noteworthy. Immunohistochemical studies with CD2, CD3 and CD5 highlighted the interfollicular expansion of the T cell component. CD4 and CD8 showed an abundance of CD8 positive T lymphoid cells around the necrotic foci. A few immunoblastic cells were stained with CD30. CD20 and Pax-5 cell immunostaining was performed.
highlighted the B follicles with PD1, CD10, Bcl-6 and CD23 positivity within germinal centers. CD15, ALK, CD56 were all negative. Epstein-Barr encoding region in situ hybridization study was negative. A diagnosis of KFD was rendered (Fig. 1).

The patient was discharged from the hospital. She has maintained normal liver injury tests receiving no treatment.

Conclusion

In summary, a case of KFD presenting with acute severe hepatitis is reported here. KFD is histiocytic necrotizing lymphadenitis and should be investigated in the differential diagnosis of acute severe hepatitis.

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