

Hyaline-Vascular Variant Castleman Disease

Sung Don Oh¹, Sung Jin Oh¹, Byoung Jo Suh^{1*} and Ji Yeon Kim²

¹Department of Surgery, Haeundae Paik Hospital, Inje University College of Medicine, Busan, Korea

²Department of Pathology, Haeundae Paik Hospital, Inje University College of Medicine, Busan, Korea

*Corresponding author: Byoung Jo Suh, Department of Surgery, Haeundae Paik Hospital, Inje University College of Medicine, 875 Haeundae-ro, Haeundae-gu, Busan, 612-862, Korea, Tel: (+82)10-3899-7365; Fax: (+82)51-797-0260; E-mail: oltx62@hanmail.net

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Clinical Image

A 48 year old male without any previous medical history had abdominal discomfort. On ultrasonography (US) and contrast enhanced computed tomography (CT), intra-abdominal mass located in between liver and stomach was founded. Tumour markers including AFP, CEA, CA 19-9, CA 125, and NSE were within normal range. To figure out regional relationship between mass and adjacent structures, endoscopic ultrasonography (EUS) and magnetic resonance imaging (MRI) were performed. EUS revealed a mass separated from serosa of stomach, suspicious for gastrointestinal stromal tumour (GIST). MRI revealed a lobulated contour calcification containing solid mass, suspicious for carcinoid, hemangioma, or GIST.

The patient underwent mass excision. The specimen measured 12.0 × 9.0 × 7.5 cm and weighted 365 gm. On section, it showed a well circumscribed lobulated and calcified mass, measured 7.5 × 6.0 × 5.1 cm. Pathologic type was Castleman lymphadenopathy, hyaline vascular type. Postoperative course was uneventful and the patient was discharged on postoperative day 7 see Figures A-E.



Figure A: Operative finding showed well-circumscribed lobulated tumour located between liver and stomach.

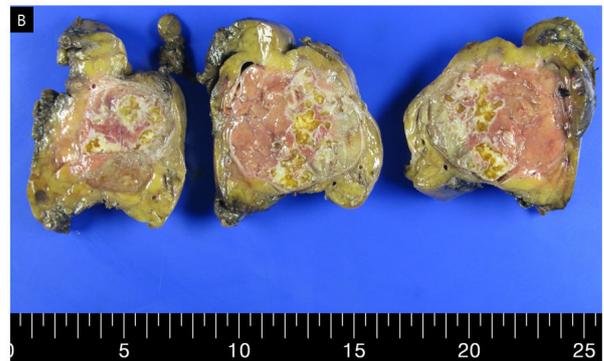


Figure B: On cut section, a lobulated tumour with partial fibrosis and calcification was seen.

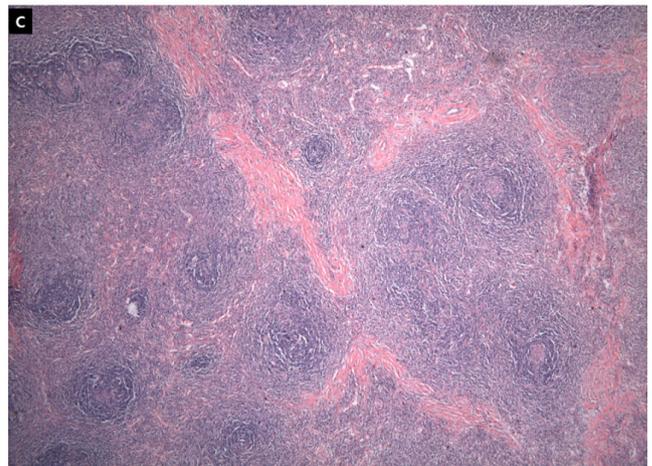


Figure C: The microscopic examination revealed that the tumour was an enlarged lymph node showing numerous lymphoid follicles and sclerotic bands (Haematoxylin-Eosin stain, 40X).

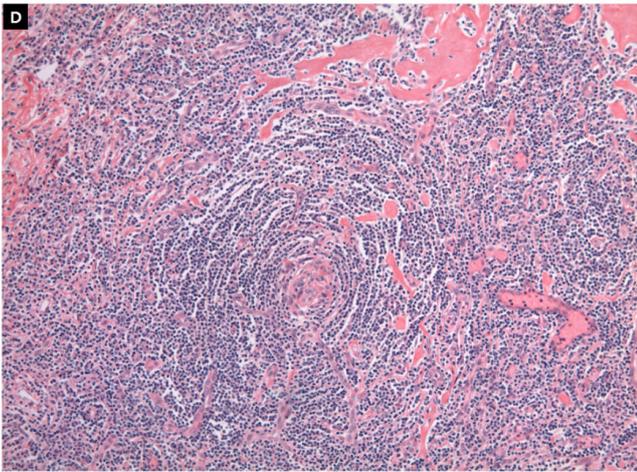


Figure D: On high power view (Haematoxylin-Eosin stain, 200X), the follicles demonstrated lymphocyte-depleted germinal centres, which are surrounded by concentric rings of small lymphocytes, showing so-called "onion skin" appearance. In the interfollicular lesion, vascularity was increased and hyaline deposits were observed.

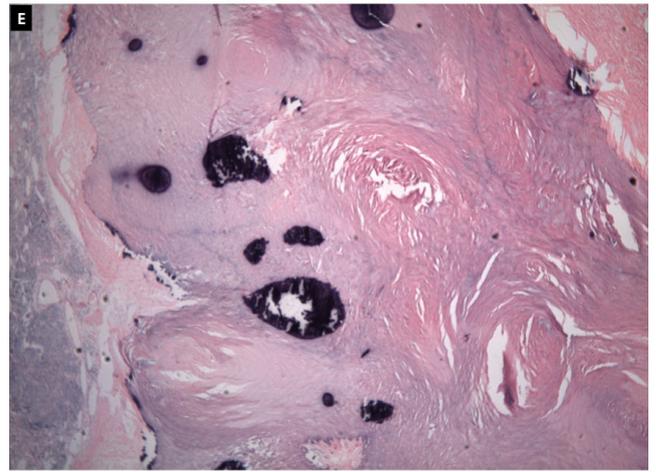


Figure E: Multifocal calcified areas were noted within thick sclerotic bands. On the basis of the histopathologic features, this tumour was diagnosed with hyaline-vascular variant Castleman disease. (Haematoxylin-Eosin stain, 40X).