

[PICTURES IN CLINICAL MEDICINE]

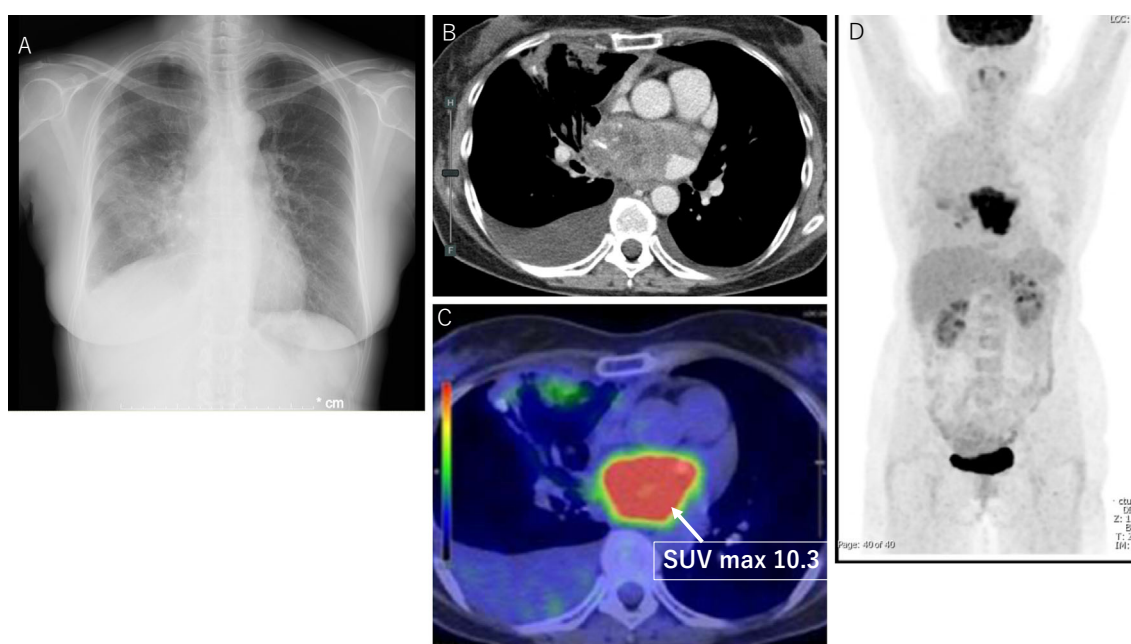
Huge Primary Cardiac Undifferentiated Pleomorphic Sarcoma

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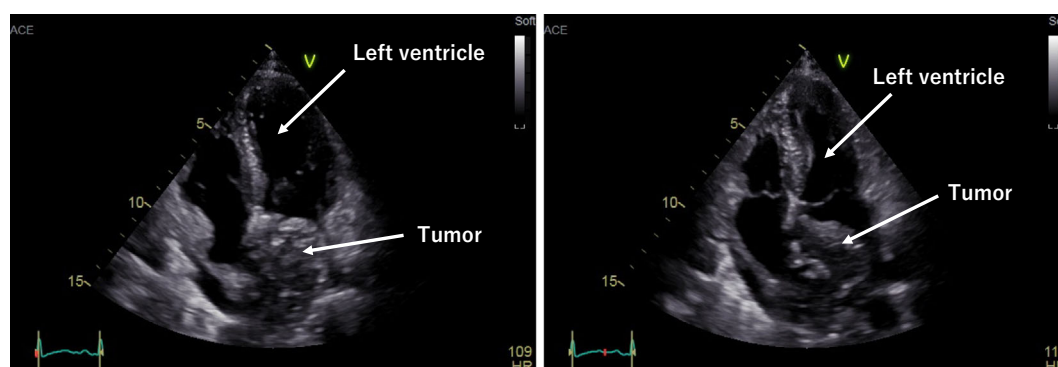
Key words: cardiac sarcoma, FDG-PET/CT, Brockenbrough method

(Intern Med Advance Publication)

(DOI: 10.2169/internalmedicine.2733-23)

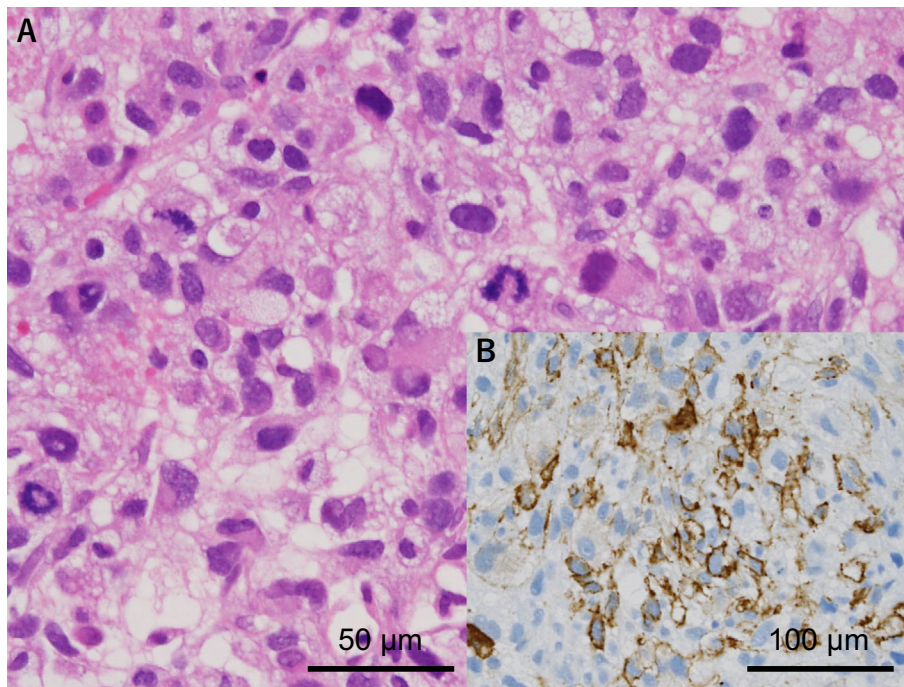


Picture 1.



Picture 2.

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Received: August 7, 2023; Accepted: September 24, 2023; Advance Publication by J-STAGE: November 6, 2023
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Picture 3.

A 60-year-old woman visited our hospital because of a cough and malaise. Chest radiography revealed pulmonary congestion predominantly in the right lung and right pleural effusion (Picture 1A). Contrast-enhanced computed tomography (CT) (Picture 1B) and cardiac echography (Picture 2) revealed a huge tumor in the left atrium (Picture 1B). Fluorodeoxyglucose-positron emission tomography (FDG-PET)/CT revealed an increased FDG accumulation in the tumor (Picture 1C, 1D). A tumor biopsy performed using the Brockenbrough method showed that the tumor consisted of spindle-shaped and polygonal cells with foamy or pale eosinophilic granular cytoplasm (Picture 3A; hematoxylin and eosin staining). The tumor cells were negative for desmin, HMB-45, S-100 protein, ERG, and cytokeratin AE1/AE3 and partially positive for α -smooth muscle actin (Picture 3B) and c-kit. The patient was diagnosed with undifferentiated pleomorphic sarcoma and treated with carboplatin, paclitaxel, and concurrent radiation therapy. How-

ever, the patient died three months later. Primary cardiac pleomorphic sarcoma has a poor prognosis and requires multidisciplinary treatment (1, 2).

The authors state that they have no Conflict of Interest (COI).

References

1. Lennerz C, O'Connor M, Schunkert H, Deutsch MA. A case report of primary cardiac sarcoma: a diagnostic and therapeutic challenge. *Eur Heart J Case Rep* 2: yty143, 2018.
2. Akishima S, Imai A, Enomoto Y, Shigeta O. Combined treatment for a large primary cardiac sarcoma: a case report. *Sur Case Rep* 5: 97-101, 2019.

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