Internal Medicine
The Japanese Society of Internal Medicine
doi: 10.2169/internalmedicine.9234-21
Intern Med Advance Publication
http://internmed.jp

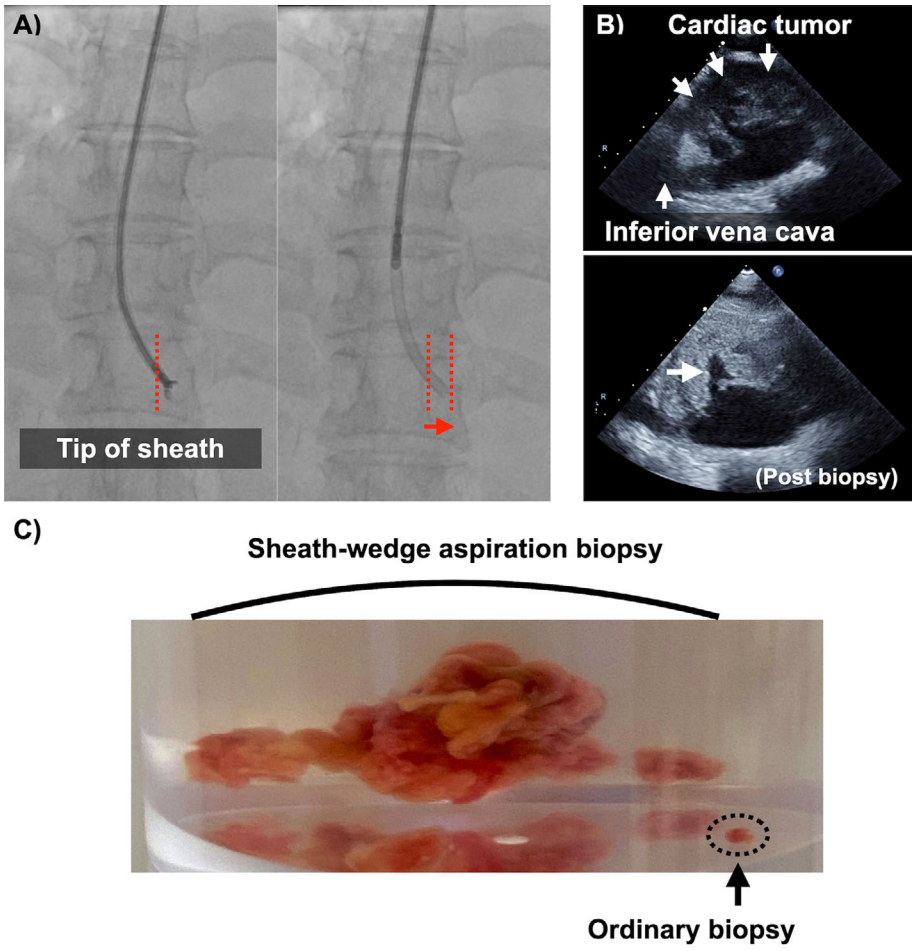
【 PICTURES IN CLINICAL MEDICINE 】

Sheath-wedged Aspiration Biopsy for the Diagnosis of a Cardiac Mass

Shohei Moriyama[1], Taku Yokoyama[1], Kenji Tsuchihashi[1] and Mitsuhiro Fukata[1]

Key words: Primary cardiac tumor, Sheath-wedged Aspiration Biopsy

(Intern Med Advance Publication)
(DOI: 10.2169/internalmedicine.9234-21)



Picture.

A 75-year-old woman presented with a right atrial tumor with pericardial dissemination. However, an examination of the pericardial fluid and forceps-obtained tumor samples did not detect malignant cells. We retried tumor biopsy using a sheath-wedge aspiration biopsy (SABx) technique. When the forceps were retracted into the sheath, the sheath moved forward slightly in an action-reaction motion and wedged it into the tumor tissue (Picture A). Next, the sheath was aspirated under the echocardiographic observation. Echocardiography detected a tumor defect at the sheath entry site,

Department of Hematology, Oncology and Cardiovascular Medicine, Kyushu University Hospital, Japan
Received: December 22, 2021; Accepted: January 7, 2022; Advance Publication by J-STAGE: February 19, 2022
Correspondence to Dr. Taku Yokoyama, dreammaker1005@hotmail.com

and a sufficiently large amount of tissue was collected (Picture B, C). The patient was successfully diagnosed with angiosarcoma and treated with radiation therapy followed by weekly paclitaxel chemotherapy.

Although a histological diagnosis is vital for determining cancer treatment, a tumor sample by the standard biopsy method is small and may not provide sufficient information (1, 2). The SABx technique aids in the diagnosis and treatment planning for patients with cardiac tumors.

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

References

1. Reddy G, Maor E, Bois MC, Chandrasekharan K, Rihal CS, Nishimura RA, et al. Percutaneous transcatheter biopsy for intracardiac mass diagnosis. EuroIntervention **13**: e1436-e1443, 2017.

2. Tyebally S, Chen D, Bhattacharyya S, et al. Cardiac Tumors: JACC CardioOncology State-of-the-Art Review. JACC CardioOncol **2**: 293-311, 2020.