A 75-year-old woman with a history of hypertension, rheumatoid arthritis, and nonvalvular atrial fibrillation (CHADS2 score=2) treated with dabigatran presented to the hospital with a 5-day history of fever and malaise and 1 episode of bright red blood per rectum. The patient had recently finished a course of oral antibiotics for a urinary tract infection and reported no residual urinary symptoms. Physical examination revealed a blood pressure of 138/90 mm Hg, a heart rate of 162 bpm, and a temperature of 40.5°C. Her jugular venous pressure was flat with normal heart sounds, a soft apical systolic murmur. ECG demonstrated atrial fibrillation with rapid ventricular response and no significant ST-segment abnormalities. The patient was subsequently admitted to the general medicine service for fever, uncontrolled atrial fibrillation, and anemia.

Dabigatran was held because of the gastrointestinal bleeding, and low-dose prophylactic subcutaneous heparin prophylaxis was initiated. The patient developed right lower-extremity swelling, and compression ultrasonography demonstrated an occlusive right proximal deep venous thrombosis. Persistent fever led to a transesophageal echocardiogram to rule out infective endocarditis. The transesophageal echocardiogram revealed normal biventricular function and a normal mitral valve with mild to moderate (2+) mitral regurgitation. A large 2.8×2.0-cm cavitated mass was seen in the left atrial appendage with an appearance consistent with thrombus (Figure and Movie I in the online-only Data supplement). No neurological sequelae or systemic emboli resulted, and the patient was initiated on low-molecular-weight heparin. Thrombocytopenia developed, with her platelet count decreasing from 317 to 67×10⁹/L over the course of 2 days. An ELISA assay for heparin-induced thrombocytopenia was positive, but a functional assay was negative. Fondaparinux was initiated, with recovery of the platelet count before discharge on rivaroxaban 20 mg daily 3 weeks after her admission.

The cavitated morphology of the left atrial appendage thrombus has been described in a case report of a patient with rheumatic mitral stenosis and referred to as a “bird-beak” appearance.¹ The cavitation is thought to reflect a rapidly growing thrombus. To the best of our knowledge, this is the first time a case of deep venous thrombosis and left atrial appendage thrombus has been described in the context of suspected heparin-induced thrombocytopenia.

Disclosures
None.

References

Figure. Midesophageal zoomed view of the left atrial appendage demonstrating a large 2.8×2.0-cm cavitory mass consistent with thrombus.
Cavitated Left Atrial Appendage Thrombus in Heparin-Induced Thrombocytopenia
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Movie Legend

Movie 1. Mid-esophageal TEE view of the left atrial appendage demonstrating a cavitary mass consistent with thrombus. Best viewed with Windows Media Player.
**Movie Legend**

**Movie 1.** Mid-esophageal TEE view of the left atrial appendage demonstrating a cavitary mass consistent with thrombus. Best viewed with Windows Media Player.