Angiofibroma in the right atrium and inferior vena cava

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A 47-year-old woman presented with shortness of breath and edema of lower limbs for 3 months. Echocardiography showed an iso-echoic lesion in the right atrium and IVC (Fig. 1a), while CT revealed an intensely enhanced mass in the region above (Fig. 1b and c). Debulking was successfully completed and histopathologic diagnosis is consistent with angiofibroma (Fig. 1d).

Figure 1: (a) Transthoracic echocardiogram demonstrated an iso-echoic longitudinal lesion within the right atrium. (b and c) Coronary CT reconstruction showed well-circumscribed enhanced mass within the right atrium and IVC, with extension into left renal vein. (d) High-power photomicrograph (H-E stain) demonstrates that the tumor is composed of fibrous tissue and vessels.