A 84-year-old woman presented to the emergency department with complaints of progressive shortness of breath and generalized edema over the prior 2 months. She had a history of hypertension, chronic obstructive pulmonary disease and persistent atrial fibrillation (AF). On admission, her blood pressure was 140/95 mm Hg and heart rate was 75 beats per minute with an irregular pulse. Physical examination revealed severe jugular venous distention (Fig. 1), grade 4 peripheral edema and ascites and a grade 3/6 holosystolic murmur that augmented with inspiration was noted at the left lower sternal border. Electrocardiography demonstrated AF rhythm and posteroanterior chest X-ray showed a globular heart (with cardiothoracic ratio of 0.9) with “water-bottle” configuration and evidence of pulmonary edema (Fig. 2). Transthoracic echocardiography demonstrated hugely dilated right atrium (11x13 cm) (Fig. 3) and malcoaptation of the tricuspid-valve leaflets as a result of annular dilatation (b), with resultant severe tricuspid regurgitation (c) and dilated left atrium, enlarged (60 mm) right ventricle, dilated (29 mm) non collapsing inferior vena cava and elevated (70 mm Hg) pulmonary artery systolic pressure were also noted. Left ventricular ejection fraction was 60%. Intravenous diuretic agents were used to normalize volume status and symptoms resolved completely.

The “water-bottle” sign refers to the radiographic appearance of the cardiac silhouette which is commonly associated with pericardial effusion, but it can also be present in severe cavity dilation secondary to valvular heart disease.

**Informed consent:** Written informed consent was obtained from the patient.
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