Dear Editor;

Chiari’s Network is a congenital remnant in the right atrium. It was firstly reported by von Rokitansky in 1875, but earned its name from Hans Chiari (1), in 1897. Chiari’s Network is found in 2-3% of normal hearts in literature, has no known purpose and is not pathological, but could be confused with valve disruption, vegetation or other mass lesion, particularly when associated with a suggestive clinical situation (2,3). It is characterized by whip-like motion in the right atrium and exists to the wall of the right atrium in close proximity to the entrance of the inferior vena cava.

It maintains an embryonic right atrial flow pattern into adult life and directing the blood from the inferior vena cava toward the interatrial septum. It may also be associated with an increased prevalence of other congenital anomalies including atrial septal aneurysm, patent foramen ovale (2,4) and facilitate paradoxical embolism (3).

Echocardiography is the most common imaging modality in detection of Chiari’s Network. Werner et al. (5) published one of the first documented sonographic findings of Chiari’s network. They described the sonographic features as a mobile curvilinear echogenic structure that appeared to extend from the right atrial wall at the opening of the inferior vena cava toward the interatrial septum.

We admit a patient (female, aged 24) presented with palpitation complaint who have no cardiovascular history. She had normal cardiovascular physical examination, blood pressure (systolic 134 mmHg, diastolic 72 mmHg) and normal electrocardiography findings at rest. We performed on echocardiography a very mobile structure in the right atrium, with the characteristic whip-like motion and atrial septal defect (ASD) 1.9 cm despite on transeusophageal echocardiography 2.2 cm was found. However, ASD diameter was different four chamber and bicaval views (Figure). Chiari’s Network may confuse measurement of ASD diameter. In conclusion; we emphasize that Chiari’s Network should be considered during measurement of ASD diameter.

Fig. Transeusophageal Echocardiographic view, AB: Incorrect measurement of ASD diameter, CD: Correct measurement of ASD diameter.

References


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Received: 04.03.2015, Accepted: 30.07.2015