“Playboy Bunny” Sign of Congestive Heart Failure

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In emergency, ultrasound has been widely used as a noninvasive and effective examination to evaluate congestive heart failure. We highlight “Playboy Bunny” sign as a reliable marker and an important clue to the diagnosis of passive hepatic congestion, caused by congestive heart failure. [West J Emerg Med. 2011;12(4):433–434.]

In emergency, ultrasonography has been widely used as a noninvasive and effective examination to evaluate congestive heart failure. The typical ultrasonographic findings in congestive heart failure include hepatomegaly and dilated inferior vena cava. We herein present another impressive sign.

Figure 1 was from a 32-year-old man with congestive heart failure, which was caused by tricuspid regurgitation, mitral valve prolapse, and pericardial effusion. The dilatation of the inferior vena cava and the hepatic veins resembles the “Playboy Bunny” sign. Figure 2 was from a 62-year-old woman with tricuspid regurgitation and pulmonary hypertension who presented with congestive heart failure. The dilated hepatic veins again look like the “Playboy Bunny” sign. Elevated central venous pressure is directly transmitted from the right atrium to the hepatic veins owing to a close anatomic relationship. Impaired hepatic venous drainage occurs secondary to cardiac disease, including congestive...
heart failure, constrictive pericarditis, pericardial effusion, cardiomyopathy, or right-sided valvular disease involving the tricuspid or pulmonary valve. Subsequent dilatation of the inferior vena cava and the hepatic veins then produces the “Playboy Bunny” sign, a good hallmark in passive hepatic congestion.

Although Bartrum and Crow\(^2\) first described “Playboy Bunny” appearance, with the head being the inferior cava and the ears the hepatic veins, in a normal subject, “Playboy Bunny” sign has been used as an impressive hallmark in passive hepatic congestion. More dilated hepatic veins often present a “deer-horn” appearance.\(^3\) In conclusion, we highlight “Playboy Bunny” sign as a reliable marker and an important clue to the diagnosis of passive hepatic congestion, caused by congestive heart failure, in emergency ultrasonography. Although final diagnosis of the type of heart failure is based on clinical and laboratory data, specific ultrasonographic features help narrow the differential diagnosis.

**REFERENCES**


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