Right Heart Compression Caused by Polycystic Kidney Disease

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A 65-year-old woman with a past history of hypertension who was referred to our hospital for evaluation of dyspnea, fatigue. She was diagnosed polycystic kidney disease for 15 years and started hemodialysis using left forearm at 55 years of age. Physical examination demonstrated heart rate 110 beats/min, blood pressure 100/60 mm Hg, temperature 36.7°C. Electrocardiogram showed sinus tachycardia. Chest X-ray revealed an elevated right diaphragm (Figure 1). Echocardiography showed external compression of the right atrium and ventricle (Figure 2). Chest-abdominal CT showed innumerable sized hepatic cysts with some of thick wall calcification in massively enlarged liver and multiple cysts with wall calcification in both kidneys. The right heart chamber was externally compressed by the huge hepatomegaly (Figure 3). We decided to treat medically due to multiple extensive lesions of liver, kidney. The patient was followed closely with regular hemodialysis treatment. Polycystic kidney disease is characterized by progressive cyst development and both enlarged kidneys with various cysts. The cysts are often seen in massive enlargement of the liver [1,2].

REFERENCES

Cite this article