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**Missed patent ductus arteriosus in a postpartum woman with pulmonary embolism – value of right-heart contrast echocardiography: A case report**

Jin-Ling Chen, Dan-E Mei, Cai-Gui Yu, Zhi-Yu Zhao

## Abstract

### BACKGROUND

As an established, simple, inexpensive and surprisingly effective diagnostic tool, right-heart contrast echocardiography (RHCE) might help in solving a vexing diagnostic problem. If performed appropriately and its results interpreted logically, RHCE allows for differentiation of various usual and unusual right-to-left shunts based on site of injection and the sequence of microbubbles'

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Therefore, the patient was suspected with acute **pulmonary embolism**. Further three-dimensional (3D) reconstruction CT angiography revealed a giant **patent ductus arteriosus** and no obvious thrombus over **pulmonary** artery (figure 2). The **postpartum** patient was diagnosed with a giant **patent ductus arteriosus** with Eisenmenger syndrome.

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