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Observational Study

**Real-time three-dimensional echocardiography predicts cardiotoxicity
induced by postoperative chemotherapy in breast cancer patients**

Fang Zhou, Lin Niu, Min Zhao, Wei-Xing Ni, Jian Liu

Abstract

BACKGROUND

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Cardiac toxicity of **chemotherapy** agents. Cardiac toxicity is a recognized adverse event of **chemotherapy** use and encompasses a range of cardiac problems, including cardiac dysfunction (heart failure), myocardial ischemia or infarction, hypertension, thromboembolism, and arrhythmias [].The incidence of **cardiotoxicity**, particularly heart failure, depends upon a number of different factors ...

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Cardiovascular toxicity induced by chemotherapy, targeted ...

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Cardiovascular toxicity **induced by chemotherapy**, ... Novel ultrasound imaging techniques, such as contrast **echocardiography** and **real-time three-dimensional (3D) echocardiography** that allows for an improvement in the accuracy of calculating LVEF, are under investigation. ... **Breast cancer patients** treated by cytotoxic **chemotherapy** or monoclonal ...

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Imaging for Cardiotoxicity in Cancer Patients

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3113123>

Chemotherapy-induced cardiotoxicity remains a significant and unresolved issue in treating adult and pediatric **cancer patients**. Current approaches to surveillance are often inadequate to detect myocardial disease, which can delay medical therapy and lead to symptomatic heart failure.

Cited by: 6

Author: Jose Banchs, John L. Jefferies, Juan Carl...

Publish Year: 2011

Cardiovascular toxicity induced by chemotherapy, targeted ...

<https://www.sciencedirect.com/science/article/pii/S0923753419376744>

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Publish Year: 2012

Assessment of Echocardiography and ... - PubMed Central (PMC)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3703313>

Sep 01, 2012 Background. Because **cancer patients** survive longer, the impact of **cardiotoxicity**