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Hemodynamic monitoring in heart failure and pulmonary hypertension: From analog tracings to the digital age

Ryan Davey, Amresh Raina

Abstract

Hemodynamic monitoring has long formed the cornerstone of heart failure and pulmonary hypertension diagnosis and management. We review the long history of invasive hemodynamic monitors initially using pulmonary artery pressure catheters in the hospital setting, to evaluating the utility of a number of implantable devices that can allow for ambulatory determination of intracardiac pressures. Although the use of indwelling pulmonary artery catheters has fallen out of favor in a number of settings, implantable devices have afforded clinicians an opportunity for objective determination of a patient's volume status and pulmonary pressures. Some devices, such as the CardioMEMS and thoracic impedance monitors present as part of implantable cardiac defibrillators, are supported by a body of evidence which show the potential to reduce heart



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Hemodynamic Monitoring of the Critically Ill Patient | GLOWM

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Therefore, in critically ill **patients**, the benefits of invasive **monitoring** are clear, ... **cardiac** tamponade, pulmonary embolism, and right ventricular **failure** to be evaluated, ... by intravascular catheters, **digital** oscillometers, and sphygmomanometers, ... include primary **pulmonary hypertension**, Eisenmenger's physiology, aortic ...

缺少字词: **analog**

Left ventricular heart failure and pulmonary hypertension

www.ncbi.nlm.nih.gov > ... > Literature > PubMed Central (PMC) - 翻译此页

作者: S Rosenkranz - 2016 - 被引用次数: 4 - 相关文章

2015年10月27日 - **Pulmonary hypertension** related to left **heart disease** (LHD) by far represents the most ... **Haemodynamic** definitions and classification of pulmonary ... technical difficulties to obtain correct recording of pressure **tracings**, as well ... reliance on end-expiratory PAWP instead of the **digital** mean value may lead ...

缺少字词: **analog**

Hemodynamic assessment of pulmonary hypertension - NCBI

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作者: JC Grignola - 2011 - 被引用次数: 13 - 相关文章

2011年1月26日 - Keywords: **Pulmonary hypertension**, Right **heart** catheterization, ... presents a clinical profile compatible with PH associated with LV **disease** (**age** > 65 ... the pulmonary pressure signal was filtered using a two-pole **digital** ... Cardiopulmonary **hemodynamics** in **pulmonary hypertension**: pressure **tracings**, ...

缺少字词: **monitoring analog**

[PDF] The usefulness of continuous hemodynamic monitoring to ...

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Continuous hemodynamic monitoring in pulmonary hypertensive ...

www.ncbi.nlm.nih.gov/pubmed/12853544 ▾ 翻译此页

作者: FM Fruhwald - 2003 - 被引用次数: 46 - 相关文章

Continuous **hemodynamic monitoring** in pulmonary hypertensive **patients** ... of pulmonary pressure, which can be measured by right-**heart** catheterization or ... [\pm SEM] **age**, 45 \pm 16 years; all women) with **pulmonary hypertension** who had ...

缺少字词: **analog tracings digital**

Hemodynamic assessment of pulmonary hypertension - NCBI

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作者: JC Grignola - 2011 - 被引用次数: 14 - 相关文章

2011年1月26日 - Keywords: **Pulmonary hypertension**, Right **heart** catheterization, presents a clinical profile compatible with PH associated with LV **disease** (**age** > 65 the pulmonary pressure signal was filtered using a two-pole **digital** Cardiopulmonary **hemodynamics** in **pulmonary hypertension**: pressure **tracings**, ...

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Continuous hemodynamic monitoring in patients with pulmonary ...

www.ncbi.nlm.nih.gov/pubmed/18582809 ▾ 翻译此页

作者: RP Frantz - 2008 - 被引用次数: 26 - 相关文章

J **Heart Lung Transplant**, 2008 Jul;27(7):780-8. doi: 10.1016/j.healun.2008.04.009. Epub 2008 Jun 2. Continuous **hemodynamic monitoring** in patients with **pulmonary arterial hypertension**..... the response of **pulmonary arterial hypertension** (PAH) **patients** to ... Adult; Aged; Exercise Tolerance*; Female; Hemodynamics* ...

缺少字词: **analog tracings digital**

[PDF] The usefulness of continuous hemodynamic monitoring to guide



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Hemodynamic assessment of pulmonary hypertension - NCBI

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作者: JC Grignola - 2011 - 被引用次数: 14 - 相关文章

2011年1月26日 - Keywords: **Pulmonary hypertension**, Right **heart** catheterization, presents a clinical profile compatible with PH associated with LV **disease** (**age** > 65 the pulmonary pressure signal was filtered using a two-pole **digital** Cardiopulmonary **hemodynamics** in **pulmonary hypertension**: pressure **tracings**, ...

缺少字词: **monitoring analog**

Hemodynamic monitoring in pulmonary arterial hypertension. - NCBI

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作者: RP Frantz - 2011 - 被引用次数: 5 - 相关文章

Pulmonary arterial hypertension (PAH) is a progressive **disease** that results in Baseline and periodic invasive **hemodynamics** via right **heart** catheterization ...

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Continuous hemodynamic monitoring in pulmonary hypertensive ...

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作者: FM Fruhwald - 2003 - 被引用次数: 46 - 相关文章

Continuous **hemodynamic monitoring** in pulmonary hypertensive **patients** ... of pulmonary pressure, which can be measured by right-**heart** catheterization or ... [± SEM] **age**, 45 ± 16 years; all women) with **pulmonary hypertension** who had ...

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Hemodynamic observations in patients with **pulmonary hypertension** treated with ... apparently independent of **age** and disease stage ... inhaled prostacyclin **analog** iloprost ... Evaluation Study of