

transthoracic impedance

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Predictors of Transthoracic Impedance in Patients Who Underwent ...

Transmyocardial current depends on 2 factors: input energy and transthoracic impedance (TTI). Although factors affecting TTI have been studied in animal models, factors affecting TTI in humans have not been well established. Herein, we explored the potential factors that affect TTI in humans.

Transthoracic Impedance Measured with Defibrillator Pads—New ...

Transthoracic impedance (TTI) could be used to evaluate how chest compressions are aligned with ventilations if the insufflation phase could be identified in the TTI waveform without chest compression artifacts.

A Systematic Review of the Transthoracic Impedance during Cardiac ...

The transthoracic impedance (TTI) is a major determinant of the transthoracic current flow and must be controlled during cardiac defibrillation to increase the success rate of defibrillation.

Applications of the Transthoracic Impedance Signal during Resuscitation ...

Defibrillators acquire both the ECG and the transthoracic impedance (TI) signal through defibrillation pads. TI represents the resistance of the thorax to current flow, and is measured by defibrillators to check that defibrillation pads are correctly attached to the chest of the patient.

Trans-thoracic impedance measurements in patient monitoring

The key to determining the patient's respiration rate is to measure the changing impedance of the thoracic cavity, which varies with each inhalation and exhalation. The impedance increases as the patient inhales and decreases as he exhales.

Standardization of transthoracic impedance values for estimating heart ...

Transthoracic impedance values, when indexed, reflect intrathoracic conditions and improve estimation. Our results highlighted the potential of machine learning and thoracic impedance measurement for accurate estimation of pleural effusion.

Full article: Thoracic impedance monitoring in heart failure: from ...

Over the past few decades, novel methods were introduced to assess volume status in HF patients, one of which is thoracic impedance monitoring. Our objective is to summarize the current knowledge on impedance monitoring as a strategy for early detection of HF exacerbations.

Abstract 12254: Predictors of Transthoracic Impedance in Patients ...

Trans-myocardial current depends on two factors: input energy and transthoracic impedance (TTI). While factors affecting TTI have been studied in animal models, factors affecting TTI in humans have not been well established. Here we explored potential factors that affect TTI in humans.

Nursing2020 Critical Care - LWW

This article distinguishes between transthoracic and intrathoracic impedance, explores the devices that can be used to monitor impedance, and describes how to obtain and use impedance measurements in heart failure management.

Monitoring Heart Failure using an Implantable Device Measuring ...

Transthoracic impedance is measured between the coil of the right ventricular lead and the can of the cardiac resynchronisation therapy (CRT) device or implanted cardioverter defibrillator (ICD) (see Figure 1). This measurement is made multiple times each day and recorded for up to 14 months.