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Context: The incidence of acute cor pulmonale (ACP), a frequent and usually lethal complication of acute respiratory distress syndrome (ARDS) during traditional respiratory support, has never been re-evaluated since protective ventilation gained acceptance. Objective: We performed a longitudinal transesophageal echocardiographic (TEE) study to determine whether this incidence, and its severe ...

Cited by: 413 Author: Antoine Vicillard-Baron, Jean-Marie Schmit...

Publish Year: 2001

Incidence Proportion of Acute Cor Pulmonale in Patients ...

<https://www.ncbi.nlm.nih.gov/pubmed/28701843>

INTRODUCTION: Reported incidence of acute cor pulmonale (ACP) in patients with acute respiratory distress syndrome (ARDS) varies from 10% to 84%, despite being subjected to lung protective ventilation according to the current guidelines.

Cited by: 1 Author: Saurabh Kumar Das, Nang Sujali Choupo, ...

Publish Year: 2017

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Respiratory Distress Syndrome

Medical Condition

An acute lung condition where organs have inadequate oxygen supply due to fluid buildup in the lungs.

Rare (Fewer than 200,000 cases per year in US)

Often requires lab test or imaging

Treatment from medical professional advised

Can last several days or weeks

Exact cause is unknown but usually diagnosed in critically ill or with severe injuries. Common symptoms include difficulty in breathing, fatigue, weakness, cough and fever. Treatment involves oxygen level management, fluid management and medication.

Symptoms

• Difficulty in breathing

• Fast breathing

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What are the signs and symptoms of cor pulmonale?

What are the rules for cor pulmonale?

What is the best diet for cor pulmonale?

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Acute Cor Pulmonale in Veno-Venous Extracorporeal Membrane ...
https://journals.lww.com/asaiojournal/pages/...

A retrospective review of three patients with acute respiratory distress syndrome (ARDS) and normal baseline right ventricular function admitted to the Cardiac Surgery Intensive Care Unit whom developed acute cor pulmonale while on veno-venous extracorporeal membrane oxygenation. These patients were diagnosed with ARDS using Berlin Criteria definitions and cannulated with a dual lumen (Avalon) ...

[Cor pulmonale] - PubMed
https://pubmed.ncbi.nlm.nih.gov/32088063

Acute cor pulmonale is usually secondary to an acute respiratory distress syndrome or to a pulmonary embolism but it can also be seen in primary lactic acidosis, a vaso-occlusive crisis in a patient with sickle cell anaemia, severe acute asthma, and entry of air or injected crushed tablets into the circulation.

Preventing the development of acute cor pulmonale in ...
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4842395

See the article "Acute cor pulmonale during protective ventilation for acute respiratory distress syndrome: prevalence, predictors, and clinical impact." in Intensive Care Med, volume 42 on page 862. Acute respiratory distress syndrome (ARDS) is a clinical condition characterized by acute hypoxemic respiratory failure that is associated with substantial mortality even 40 years since it was first described.

Acute cor pulmonale during protective ventilation for ...
https://link.springer.com/article/10.1007/s00134-015-4141-2

Dec 09, 2015 · Increased right ventricle (RV) afterload during acute respiratory distress syndrome (ARDS) may induce acute cor pulmonale (ACP). To determine the prevalence and prognosis of ACP and build a clinical risk score for the early detection of ACP

Rescue therapy with inhaled nitric oxide and almitrine in ...
https://annalsofintensivecare.springeropen.com/.../

Nov 04, 2020 · Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) which is responsible for the coronavirus disease 2019 (COVID-19) pandemic is causing a massive influx of patients presenting with severe acute respiratory distress syndrome (ARDS) to intensive care units (ICUs) worldwide [1]. For the most severe cases, refractory ARDS may lead to a discussion regarding the use of extracorporeal ...

Cor Pulmonale - What You Need to Know - Drugs.com
https://www.drugs.com/cg/cor-pulmonale.html

Nov 16, 2020 · Cor pulmonale is a condition that occurs when the right ventricle of your heart cannot pump properly. The right side of your heart pumps blood from your body into your lungs to get oxygen. Cor pulmonale is caused by pulmonary hypertension (PH). PH is high blood pressure in the arteries of your lungs. Blood cannot flow through your lungs and backs up in the right ventricle of your heart.

What Causes Cor Pulmonale?

Cor pulmonale is caused by pulmonary hypertension (PH). PH is high blood pressure in the arteries of your lungs. Normally, the pressure in these arteries is ...

What Increases My Risk For Cor Pulmonale?

1. Acute lung diseases, such as acute respiratory distress syndrome or a blood clot in your lungs 2. Chronic lung or heart disease, such as COPD or ...

What Are The Signs and Symptoms of Cor Pulmonale?

1. Shortness of breath 2. Weakness and feeling more tired than usual 3. Chest pain 4. Headaches 5. Fainting or feeling lightheaded 6. Loss of appetite ...

Extracorporeal life support for patients with acute ...
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4046033

May 24, 2014 · Introduction. The mortality of acute respiratory distress syndrome (ARDS) remains high in its severe forms as defined at the recent Berlin Consensus Conference [1]. One explanation for this is that some patients remain severely hypoxemic despite mechanical ventilation conducted according to current international recommendations including, in particular, the use of a tidal volume of between 4 ...

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Respiratory Distress Syndrome

Medical Condition

An acute lung condition where organs have inadequate oxygen supply due to fluid buildup in the lungs.
Rare (Fewer than 200,000 cases per year in US)
Often requires lab test or imaging
Treatment from medical professional advised
Can last several days or weeks
Exact cause is unknown but usually diagnosed in critically ill or with severe injuries. Common symptoms include difficulty in breathing, fatigue, weakness, cough and fever. Treatment involves oxygen level management, fluid management and medication.

Symptoms

Difficulty in breathing
Fast breathing
Muscle fatigue and weakness
Decreased blood pressure
Discoloration in skin or nails
Cough
Fever
Headaches
A fast heart rate
Mental confusion

Treatments

Treatment consists of supportive care including oxygen, fluid management and medication.
Medication
Anti coagulants: Blood thinners to prevent blood clots.
Warfarin · Heparin
Therapies: Oxygen therapy

Causes

Exact cause is unknown but usually diagnosed in critically ill or with severe injuries.
Some common factors that lead to lung damage include:
Inhaling toxic substances e.g. smoke
Sepsis or severe blood infection
Severe infection of the lungs e.g. pneumonia
Multiple blood transfusions
Trauma: injury to the chest or head such as when involved in an accident
Drowning
Factors that increase the risk of respiratory distress syndrome include:
Age over 65 years
Smoking
Chronic lung disease
Alcoholism

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 **Acute cor pulmonale in patients with acute respiratory distress syndrome: A comprehensive review**

See KC *et al.* ARDS-related acute cor pulmonale

Kay Choong See

 **Abstract**

Acute respiratory distress syndrome (ARDS)-related acute cor pulmonale (ACP) is found in 8%-50% of all patients with ARDS, and is associated with adverse hemodynamic and survival outcomes. ARDS-related ACP is an echocardiographic diagnosis marked by combined right ventricular dilatation and septal dyskinesia, which connote simultaneous diastolic (volume) and systolic (pressure) overload respectively.

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Can COPD cause pulmonary hypertension? ▾

What are the symptoms of cor pulmonale? ▾

What are the side effects of cor pulmonale? ▾

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