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Observational Study

Experience with hemoabsorption (CytoSorb®) in the management of septic shock patients

 Mehta Y *et al.* CytoSorb® in septic shock patients

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 Gourav Kochhar, Arun Raizada

Abstract

BACKGROUND

Cytokines and inflammatory mediators are the hallmarks of sepsis. Extracorporeal cytokine hemoabsorption devices are the newer clinical support system to overcome the cytokine storm during sepsis.

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Experience with hemoadsorption (CytoSorb®) in the management of septic



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Hemoadsorption by CytoSorb in septic patients: a ... 翻译此页

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Author: Klaus Kogelmann, Dominik Jarczak, Morte...

Publish Year: 2017

2017-3-27 · Septic shock, defined as life-threatening organ dysfunction caused by a dysregulated host response to infection, is a highly lethal condition that causes substantial morbidity and mortality among critically ill patients. One of the hallmarks of sepsis is the excessive release of cytokines and other inflammatory mediators causing refractory hypotension, tissue damage, metabolic acidosis and ...

<https://ccforum.biomedcentral.com/articles/10.1186/s13054-017-1662-9> ▾

Hemoadsorption by CytoSorb in septic patients: a ... 翻译此页

Cited by: 82

Author: Klaus Kogelmann, Dominik Jarczak, Morte...

Publish Year: 2017

2017-3-27 · METHODS: In the present case series, we evaluated the impact of a new hemoadsorption device (CytoSorb) used as adjunctive therapy, on hemodynamics and clinically relevant outcome parameters in 26 critically ill patients with septic shock and in need of renal replacement therapy.

<https://www.ncbi.nlm.nih.gov/pubmed/28343448>

Hemoadsorption by extracorporeal cytokine ... 翻译此页

2019-12-23 · Therefore, the reduction in cytokine levels by hemoadsorption represents a new concept for blood purification. CytoSorb® as a hemoadsorption device is a detoxification system, which aims to decrease the cytokines levels. This study was conducted to understand any beneficial effects of CytoSorb® therapy in septic patients.

<https://www.ncbi.nlm.nih.gov/pubmed/31868078>

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Hemoadsorption treatment with CytoSorb® in patients with ...

<https://journals.sagepub.com/doi/abs/10.1177/0391398819895287>

In this retrospective case series, we describe 23 patients undergoing extracorporeal life support therapy and CytoSorb hemoadsorption. Cytokine levels were monitored, hemodynamic and metabolic variables were recorded, and outcome measures such as duration of organ support, intensive care unit mortality, and hospital mortality were noted.

Hemoadsorption by CytoSorb in septic patients: a case series.

<https://www.ncbi.nlm.nih.gov/pubmed/28343448>

Mar 27, 2017 · CONCLUSION: Hemoadsorption using CytoSorb resulted in rapid hemodynamic stabilization and increased survival, particularly in patients in whom therapy was started early. Given the positive clinical experience of this case series, randomized controlled trials are urgently needed to define the potential benefits of this new treatment option.

Cited by: 82

Author: Klaus Kogelmann, Dominik Jarczak, Mort...

Publish Year: 2017

Hemoadsorption Treatment of Patients with Acute Infective ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6159853>

Jan 26, 2018 · Currently, the device most used as an adjunctive treatment to standard therapy in subjects suffering from SIRS, severe sepsis or septic shock to support the removal of cytokines as well as other inflammatory mediators via direct whole blood hemoadsorption is CytoSorb.

Hemoadsorption by extracorporeal cytokine adsorption ...

<https://journals.sagepub.com/doi/abs/10.1177/0391398819891739>

Introduction: Sepsis results in immunologic disturbances with the release of various inflammatory mediators such as cytokines. Cytokines can damage the cells, and the continuous release of inflammat...

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adjunctive therapy, on hemodynamics and clinically relevant outcome parameters in 26 critically ill patients with septic shock and in need of renal replacement therapy. Results: We found that treatment of these patients with septic shock was associated with hemodynamic stabilization and a reduction in blood lactate levels.

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