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Vitamin C in the critically ill – indications and controversies

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Abstract

Ascorbic acid (vitamin C) elicits pleiotropic effects in the body. Amongst its functions it serves as potent anti-oxidant, co-factor in the collagen and catecholamine synthesis, and modulator of immune cell biology. Furthermore, an increasing body of evidence suggests that high dose vitamin c administration improves hemodynamics, end-organ function, and may improve survival in critically patients. This articles reviews studies that evaluate vitamin C in pre-clinical models and clinical trials with regards to its therapeutic potential.

Key words: Ascorbic acid; Vitamin C; Critical care medicine; Sepsis; Shock;

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Vitamin C supplementation in the **critically ill** patient. ... therapeutic perspectives, based on the biochemical evidence, with limited or even absent **side-effects**.

缺少字词: **controversies**

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2017年10月25日 - with **Vitamin C**, Thiamine and Hydrocortisone, regardless if normal saline or the ... Patients who require treatment with corticosteroids for an **indication** other than ... septic shock among **critically ill** patients in Australia and New Zealand, 2000- ... use of Bayesian statistics to resolve clinical trial **controversies**.

[PDF] A Randomized, Double Blind, Placebo-Controlled ... - ClinicalTrials.gov

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2017年10月31日 - (about 7g/day) in 28 surgical **ICU** patients with septic shock. [24] In this study the ... 64% (p = 0.009). No **side effects** related to the **vitamin C** infusion were reported. ... resolve clinical

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Curr Opin Clin Nutr Metab Care. 2015 Mar;18(2):193-201. doi: 10.1097/MCO.0000000000000148.

Vitamin C supplementation in the critically ill patient. Berger ...

缺少字词: controversies

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..., G Iapichino, A Laviano, C Pichard... - Critical Care, 2015 - ccforum.biomedcentral.com
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Optimisation of energy provision with supplemental parenteral nutrition in critically ill patients: a randomised controlled clinical trial [PDF] academia.edu

..., P Darmon, MC Costanza, R Thibault, C Pichard - The Lancet, 2013 - Elsevier
... Thibault, Walter Zingg, Claude Pichard. Supplemental parenteral nutrition in critically ill patients – Authors ... as lower than 4 mmol/L. Trace elements, minerals, and vitamins were administered to ... and area under the curve [AUC]), phosphataemia, concentration of C-reactive protein ...
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[HTML] Practice patterns in the management of acute renal failure in the critically ill patient: an international survey [HTML] oup.com

Z Ricci, C Ronco, G D'amico, R De Felice... - Nephrology Dialysis Transplantation, 2005 - academic.oup.com
... Non-renal indications to RRT still need to find a definitive role in routine practice ... in ARF [9] and the validation of severity scoring for ARF in critically ill patients [10] ... a practice-related approach, we had distributed during a recent international course on critical care nephrology ...
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TR Ziegler - New England Journal of Medicine, 2009 - Mass Medical Soc
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A Mesejo, JA Acosta, C Ortega, J Vila, M Fernández... - Clinical Nutrition, 2003 - Elsevier
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