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Blood Glucose Control in the Intensive Care Unit: Where Is the Data?



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Intensive versus Conventional Glucose Control in ...

<https://www.nejm.org/doi/full/10.1056/NEJMoa0810625>

Study Design. In the group of patients assigned to undergo conventional **glucose control**, insulin was administered if the blood **glucose** level exceeded 180 mg per deciliter; insulin administration was reduced and then discontinued if the blood **glucose** level dropped below 144 mg per deciliter (8.0 mmol per liter).

Glucose control — GlucoSet

<https://www.glucoset.com/glucosecontrol-detailed> ▾

Elevated **blood glucose** due to critical illness ("stress hyperglycemia") is seen in most **intensive care unit** patients. The elevated **blood glucose** has detrimental effects on ...

Glucose control in critical care - PubMed Central (PMC)

www.ncbi.nlm.nih.gov > ... > [World J Diabetes](#) > v.6(9); 2015 Aug 10

Aug 10, 2015 · Keywords: Glycemic control, Critical care, Blood sugar in **intensive care unit**, Diabetes in **intensive care unit**, Glycemic control Core tip: **Glucose control** among critically-ill patients has been an area of active research and considerable controversy in the past 15 years.

Cited by: 16

Author: Jeremy Clain, Kannan Ramar, Salim R Su...

Publish Year: 2015

Glucose Control in the Intensive Care Unit by Use of ...

clinchem.aaccjnls.org/content/60/12/1500 ▾

Dec 01, 2014 · Accurate measurement of blood **glucose** concentration is essential for achieving safe and efficacious **glucose control in the intensive care unit (ICU)** 2 (1, 2). Accuracy standards to determine adequacy of intermittent and continuous **glucose** monitoring devices are subject to ongoing debate informed by consensus but lacking convincing evidence (3).

Name of Journal: *World Journal of Meta-Analysis*

Manuscript NO: 48134

Manuscript Type: MINIREVIEWS

Blood glucose control in the intensive care unit: Where is the data?

Casillas S *et al.* BG control in ICU

Sebastian Casillas, Edgar Jauregui, Salim Surani, Joseph Varon

Abstract

Blood glucose (BG) control, including hyperglycemia correction, maintaining glucose at optimal level and avoiding hypoglycemia which clinicians face every day in the intensive care units (ICU). If managed inadequately can increase mortality. Prior to 2001, no relevant randomized, controlled studies assessing glucose control in the ICU were available. In the past 18 years, many clinical trials have defined criteria for managing abnormal BG levels, as well as suggestions for glycemic monitoring. Point-of-care BG

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Glucose Control in the Intensive Care Unit by Use of ...

clinchem.aaccjnl.org/content/60/12/1500 ▼

Dec 01, 2014 - **Accurate measurement of blood glucose concentration is essential for achieving safe and efficacious glucose control in the intensive care unit (ICU) 2 (1, 2).** Accuracy standards to determine adequacy of intermittent and continuous glucose monitoring devices are subject to ongoing debate informed by consensus but lacking convincing evidence (3).

Cited by: 20

Author: Malgorzata E. Wilinska, Malgorzata E. W...

Publish Year: 2014

Glycemic Control in the ICU - CHEST

[https://journal.chestnet.org/article/S0012-3692\(11\)60366-8/fulltext](https://journal.chestnet.org/article/S0012-3692(11)60366-8/fulltext)

Although the initial trials in Leuven produced enthusiasm and recommendations for intensive blood glucose control, the results of the NICE-SUGAR study have resulted in the more moderate recommendation to target a blood glucose concentration between **144 mg/dL and 180 mg/dL (8-10 mmol/L)**.

Cited by: 92

Author: Moritoki Egi, Simon Finfer, Rinaldo Bellomo

Publish Year: 2011

Hyperglycemic control in the ICU - acute care testing

<https://acute-care-testing.org/en/articles/hyperglycemic-control-in-the-icu> ▼



How Did We Get Here?

Recommendations

Measuring and Metrics



The seminal study that began the current round of tight glycemic control (TGC) protocols is widely acknowledged to be the work of van den Berghe et al who studied TGC in a surgical ICU in Leuven, Belgium. This 2001 analysis launched a worldwide revolution in the way glucose was managed in ICUs, despite the fact that the Leuven study was done at a single institution and thus far, no one has reliably been able to reproduce their findings . Even van den Berghe's team could not replicate their f...

See more on acute-care-testing.org