In touch with the future

B. Braun Space GlucoseControl

Innovation
Critically ill patients develop stress-induced hyperglycemia, which is associated with adverse side effects and increases the risk of mortality and morbidity.

The importance to counteract has been revealed in a recent inquiry of more than 800 ICU professionals [fig. 1].

Good news is that these risks can be minimized by intensive insulin treatment as shown in several studies.¹,²

However, normalization of blood glucose is a big challenge increasing your workload: Being associated with an increased risk of life-threatening hypoglycemia, the procedures for blood glucose management are heterogeneous and complex, demanding most accurate control.³,⁴

"Uncontrolled high blood glucose can lead to serious problems for hospitalized patients," ... “strategies must be identified to help hospitals establish structured protocols for safe and effective management of blood glucose in both intensive care units and other hospital settings.”

Recommendation of American Diabetes Association (ADA) and American Association of Clinical Endocrinologists (AACE)

Fig. 1: More than 95% consider insulin therapy to be important or very important for critically ill patients.
B. Braun Space GlucoseControl

Challenge accepted

B. Braun Space GlucoseControl realizes safe and reliable glucose levels in critically ill patients with a significantly reduced risk of hyper- and hypoglycemia.

With its intelligent dosage algorithm, the B. Braun Space GlucoseControl integrates enteral and parenteral nutrition and exactly determines insulin rate and next sampling time – helping you to easily control complex work processes for a safer future with minimized episodes of potentially dangerous hyperglycemia and hypoglycemia.

B. Braun Space GlucoseControl – the solution to achieve safe and reproducible blood glucose control
Two targets, one objective
Flexible selection between two glucose ranges

B. Braun Space GlucoseControl brings blood glucose to your desired targets

Strict Glucose Control within a range of 4.4 – 6.1 mmol/l (80 – 110 mg/dl)

Moderate Glucose Control within a range of 4.4 – 8.3 mmol/l (80 – 150 mg/dl)

B. Braun Space GlucoseControl – two target ranges to improve patient outcome
Get in touch with the future
B. Braun Space GlucoseControl integrates glucose management in your clinical routine

The decision support system for safe and reliable establishment of normal blood glucose levels in critically ill patients.

Developed with the support of experienced intensive care physicians, nurses and biomedical engineers.

How does it work?
B. Braun GlucoseControl is integrated in the B. Braun Space System with SpaceControl. The touch screen of SpaceControl is a central graphical user interface, which is connected with the module containing the intelligent learning algorithm.

The appropriate insulin rate is calculated by the intelligent algorithm integrating all important data:

- latest blood glucose value
- enteral nutrition
- parenteral nutrition
- history
- patients' weight

B. Braun Space GlucoseControl – more safety in daily clinical workflow
Workflow in a new dimension
Actual improvement in your daily practice with Space

1. Blood sampling and analysis
2. Input of glucose value into SpaceControl
3. Confirmation of suggested insulin rate

Automatic insulin application
Automatic calculation of appropriate insulin rate and next sampling time
Automatic consideration of nutrition data

B. Braun Space GlucoseControl – optimized workflow and simplified treatment decision for more safety in daily use
Reliability on a daily basis

B. Braun Space GlucoseControl in your clinical routine

The B. Braun Space GlucoseControl facilitates your workload in the treatment of critically ill patients. Best guess decisions are replaced by precise calculation of insulin rate and sampling time. Patients benefit from optimized glucose control and have less complications and shorter stay time on ICU.

B. Braun Space GlucoseControl in your intensive care environment – a decision for the future.
References


