Data-Fusion Software for Early Detection Patient Monitoring

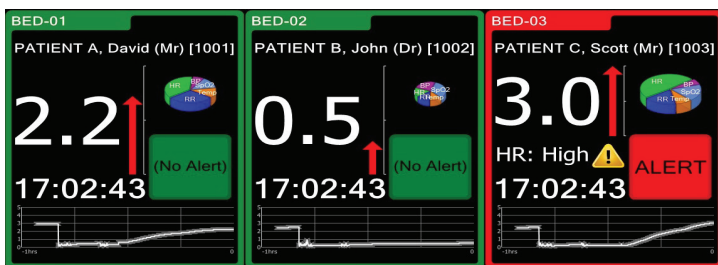## Over 6 Hours – In Advance Warning of Critical Instability

Visensia® analyses and interprets the combined patterns of up to five vital signs collected from existing bedside monitors and ambulatory devices or manually during routine observations to generate a single early-warning index; The Safety Index.

The Visensia® Safety Index works by comparing the patient's vital signs; heart rate, blood oxygen saturation, respiration rate, temperature and blood pressure, against a model of normality derived from a population of high risk patient groups on the general ward.

The Visensia® Safety Index represents a single measure of the patient's condition. Vital signs are fused to generate a predictive index (0-5) representing the patient's wellness.

0 = Normal   3 = Visensia Alert (caregiver intervention necessary)   5 = Critical (crisis)

Each Visensia display shows a grid of cells and each cell shows information for a single monitored patient

The Drill Down display, and displays that are similar to this, show the vital signs and the index value for the patient currently selected, along with any currently active warnings.

The Pie Chart - visible within the Drill Down Display, hows the contributions each of the fused vital signs are making to the calculated index, giving a clear indication as to the origin of the abnormality.

Efficiency

Visensia allows for an objective measure of patient acuity to allow decisions to be made to increase the efficiency of workflow.

⏱ Code-blue responses declined by 37.5%

Empowerment

Visensia enables nurses independent of experience to help predict patient deterioration

⏱ 95% of Visensia Alerts considered "True Alerts"

Engagement

The Visensia tool can help drive staff engagement as it helps caregivers to fulfill their daily tasks easier and provides peace of mind.

⏱ There was a 60% reduction in the duration when patients were critically unstable

Visensia® The Safety Index providing truly
Life-Saving Insight ®

www.visensia-obs.com

Visensia Data-Fusion Software

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Data for Life

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Visensia System Requirements

Visensia Server Configuration requirements

- 2 GHz or better Pentium 4 equivalent processor
- 1 GB or better memory
- 10 GB free disk space
- 100 Mb Ethernet connectivity
- .NET 4 required (installed on server if not already present)

Visensia Client Configuration requirements

- 1 Ghz or better Pentium 4 equivalent processor
- 512 MB or better memory
- 1 GB free disk space
- 10 Mb Ethernet connectivity
- .NET 4 required (installed on client if not already present)
- Cable Ethernet required

Software on computer hardware

- 32 or 64bit OSs
- Microsoft Windows XP (SP3)
- Microsoft Windows 7
- Microsoft Windows 8.1 based systems, including Server 2003 R2 & Server 2008 R2.
- Microsoft Windows 10

Regulatory Compliance

- CE Marked
- FDA 510 (k) cleared

Visensia - The Safety Index

Resource Centre

Installation Overview

Visensia is supplied as one installation package, which contains two installable components called Client and Server. The Client component of Visensia focuses on the visual elements of the system and needs to be connected to a single Server. The Server component of Visensia focuses on the data and its processing and acts as the central system in a Visensia set-up. It has no visual components and runs as a Service under Microsoft Windows.

Vital Sign Data

Visensia is a device agnostic software solution. It provides a standard HL7 interface for communicating to and from other data acquisition systems. Visensia Server component can handle both periodic and continuous vital sign data when calculating the Index. The Visensia Index is calculated whenever new data is received

Index Value

The aggregate score, the Visensia Index, is displayed on a scale of 0-5, with 0 representing the normal end of the scale and 5 representing extreme physiological deterioration.

Visensia Alert

When a Visensia alert has activated, it means that the Visensia Index has reached and/or surpassed the default threshold and indicates that attention should be brought to the patient.

Visensia Display

During normal operation the Visensia screen will display a Visensia Index for each patient and it will update every time new physiological data is received for that patient. The Visensia display can be configured to show patient information in a variety of formats.

Bed/Room Identifier
Patient Name/ID
Visensia ® Safety Index
Warning Indications
Index Timestamp
Historic Index Values
VSI Trend

Current Index Contributions
Patient Trend Indicator
Alert Display
Alert Warning Border

OBS Medical Limited reserves the right to change specifications without notice.
All patient data as used to demonstrate the various system displays are fictitious.