# Meeting todays healthcare challenges

Today's healthcare challenges have an immediate and direct impact on patient safety. The majority of Healthcare Organisations and Clinicians will identify with one or more of the below challenges within their own environment.

# DeterioratingPatients

Delay in Patient Escalation Pressure to speed up patient journey through the hospital Alarm Fatigue Avoidable Deaths

Availability of skilled Nursing Staff **Increasing Insurance Premiums** 

Visensia® The Safety Index™ provides a clinically proven solution meeting these challenges and improving overall patient safety.



Features

#### Predicts Patient Deterioration

• Providing truly advanced early warning of critical instability

#### **Automated Alerts**

• Highlighting a patient's move away from normality and the need for vigilance

#### Single Channel Warnings

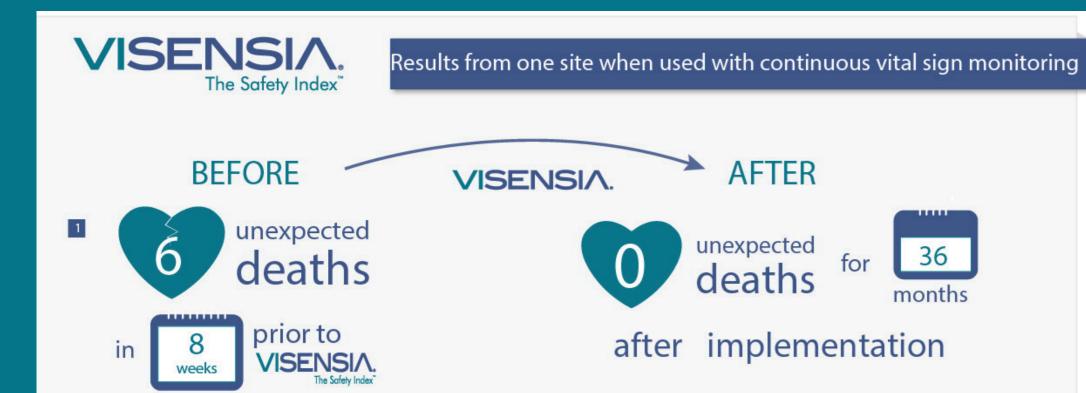
• Displayed alongside the vital sign data and VSI helping to reduce alarm fatigue

### Trend Data

• Including the Patient Trend Indicator, detailing the direction and rate of the VSI change

#### Visensia Safety Index - VSI Contributions

• Displays each of the vital signs and their contribution to the VSI











Only 1.6 false alerts in



Hravnak et al. Critical Care Med 2011 Vol 39 (1) 65-72. Cardiorespiratory instability before and after implementing an integrated monitoring system and information held on file at OBS Medical Offices Hravnak et al. Arch Intern Med 2008 Vol 168 (12) 1300-8. Defining the incidence of Cardiorespiratory Instability in Patients in Stepdown

-Hravnak et al. Critical Care Med 2011 Vol 39 (1) 65-72. Cardiorespiratory instability before and after implementing an integrated monitoring system Tarassenko et al, 31st Annual International Conference of IEEE EMBS, Minneapolis, Minnesota, USA, September 2-6, 2009. Telemetry-based vital sign monitoring for ambulatory hospital patients





- When used with periodic vital sign monitoring

Over a 4 year period there was a ...



37.5% of Code-Blue Responses decline (Patient Emergency)

in the medical-surgical unit

34.5% reduction in



mortality rates





Especially significant because there was a ...





# B e n e f i t s

#### Identifies crisis earlier

- Average 6.3 hours advance warning of critical instability
- Average 9.4 minutes earlier warning than single channel alarms

### Improves communication and workflow

• By displaying a visual trend and ranking for each of the five vital signs and their contribution to abnormality, Visensia enables caregivers to identify small trends before they become serious problems

# Accelerates response times

• Having a reliable pre-crisis alert tool for clinical teams can improve response time system-wide, leading to enhanced patient safety and outcomes

## Helps reduce alarm fatigue

- 79.3% Sensitivity; 80.5% Specificity
- Only 1.6 false alerts per 100 hours of monitoring

