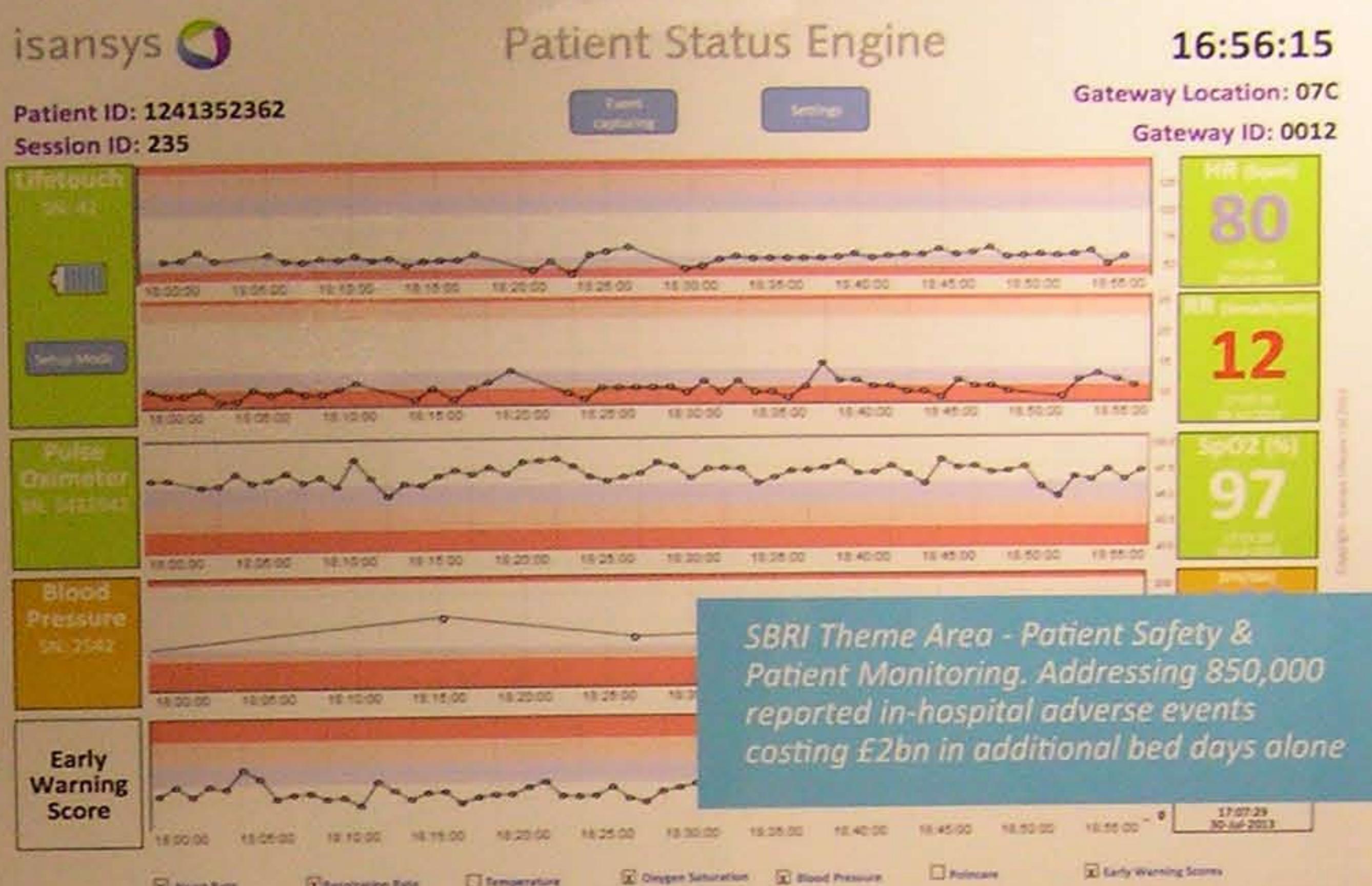


Every patient monitored: scalable, low-cost multiple vital sign patient-data acquisition and analysis platform, for rapid early detection of deterioration - An SBRI Healthcare NHS Development Contract to increase Patient Safety

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This project will allow Every Patient to be Continuously Monitored remotely, affordably and easily.



Background

A national SBRI Healthcare competition launched by NHS England in partnership with the Academic Health Science Networks to find innovative new products and services, have awarded a feasibility contract to Isansys Lifecare to develop technology that allows scalable, low cost wireless monitoring of every hospitalised patient. This project falls under the theme "Patient Safety & Patient Monitoring" which aims to provide solutions to a critical unmet need to early detect deteriorating patients in hospital.

- All costs arising from patient safety estimated to cost £5 billion, close to 5% of the NHS budget
- Secretary of Health Jeremy Hunt, April 2014: the NHS is 'paying out £1 billion a year in patient safety related compensation claims'

The Problem

Patient safety related issues in the NHS result in an estimated 850,000 inpatient adverse events and more than 12,000 avoidable deaths. The total costs relating to patient safety including additional bed days, "re-work", litigation and unrecorded events are more than £5 billion annually.

Combining improved monitoring with early warning scoring methods has been shown to be the most effective way of reducing avoidable patient deterioration and the number of unexpected deaths in clinical settings, with subsequent benefits for patients and cost savings for providers.

The Project

Recognising that medical devices needed to be smaller, cheaper and connected, Isansys have developed low cost and scalable continuous wireless monitoring devices and integrated these, together with third party devices, into the CE marked Patient Status Engine (PSE) platform.

To achieve "Every Patient Monitored" this project is developing additional sensors to replace expensive third party devices and to obtain higher quality data and better data coverage.

Technology Outcomes

- An integrated suite of low cost wireless vital sign sensors
- Continuous patient data and real time analysis
- Addressable bedside display and data entry screen for manual input (for example of Glasgow Coma Scales)
- Cost less than one-tenth that of current bedside monitors
- Immediate local and remote (networked) access to patient data

Clinical Outcomes

- Affordable continuous monitoring for all patients in hospital and home
- Significant improvements in patient outcomes through avoidance of adverse events and avoidable deaths
- Potential for enormous cost savings for NHS (hundreds of £millions)

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