



Enhanced Patient Safety

With AI-based Contactless RPM

Our Impact

14 Mn

Nursing Hours Saved

25K

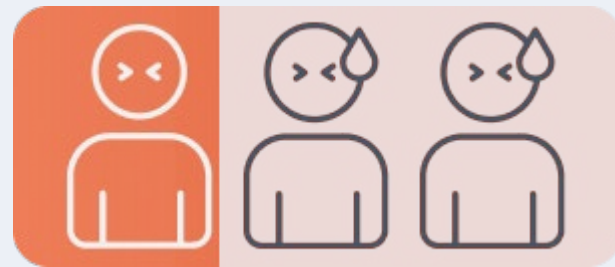
Lives Saved

Trusted by Market Leaders Across

4 Countries | 300+ Hospitals | 17,000+ Beds

Periodic Vitals Checks Fails to Identify Adverse Events Early

Periodic Vitals Check Fails
to identify **67%** of adverse
events in wards¹

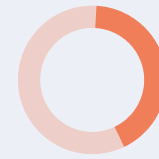


Due to infrequent monitoring of
vitals (only once in 4-6 hrs)

¹ Observational Study conducted at KGMU Lucknow,
International Publication under review

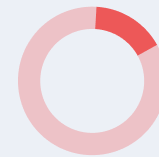
Delayed Intervention
can significantly impact
patient outcomes, & causes²

42%
events*
occur



≈ 2h
after the
last spot check

16%
events*
occur

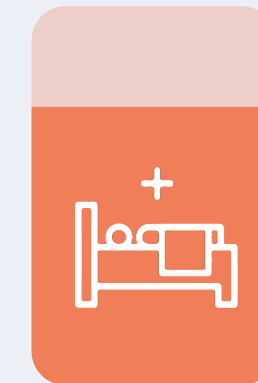


≈ 15min
after the
last spot check

*Anoxic Brain Injury/Death (usually caused by low BP)

² Khanna et al., 2019 Prediction of Opioid-Induced Respiratory
Depression on Inpatient Wards Using Continuous Capnography
and Oximetry: An International Prospective, Observational Trial.
Critical Care; Impact Factor: 19.33

Detrimental Events
in general wards
frequently go unnoticed³



73% of patients
who died in hospitals
were not admitted to
critical care at any
stage after surgery

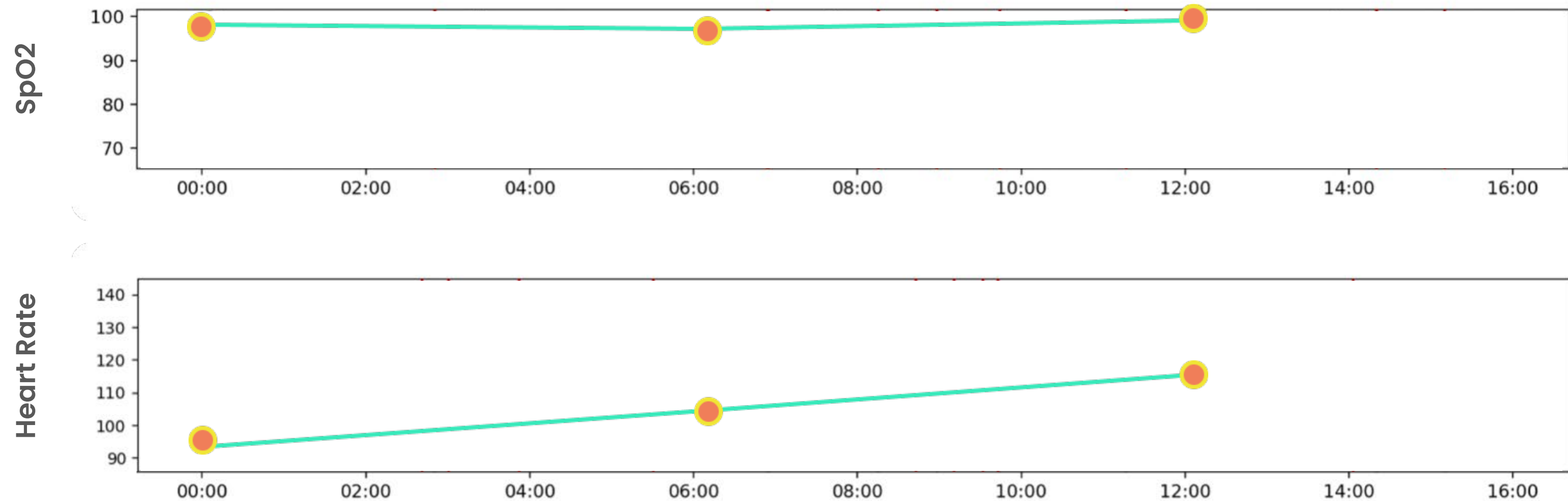
³ Detrimental Events: Rupert M Pearce, et al., Mortality after
surgery in Europe: a 7-day cohort study. The Lancet; 380(9847):
1059-1065 (2012)

Situation worsens during night shifts: 2x more incidents happen during night time

National Patient Safety Agency, Safer care for the acutely ill patient: learning from serious incidents. Patient Safety Observatory 2007.

Periodic Vitals Checks are inadequate

The Current Standard of Care for 90–95% of the Beds in Hospitals

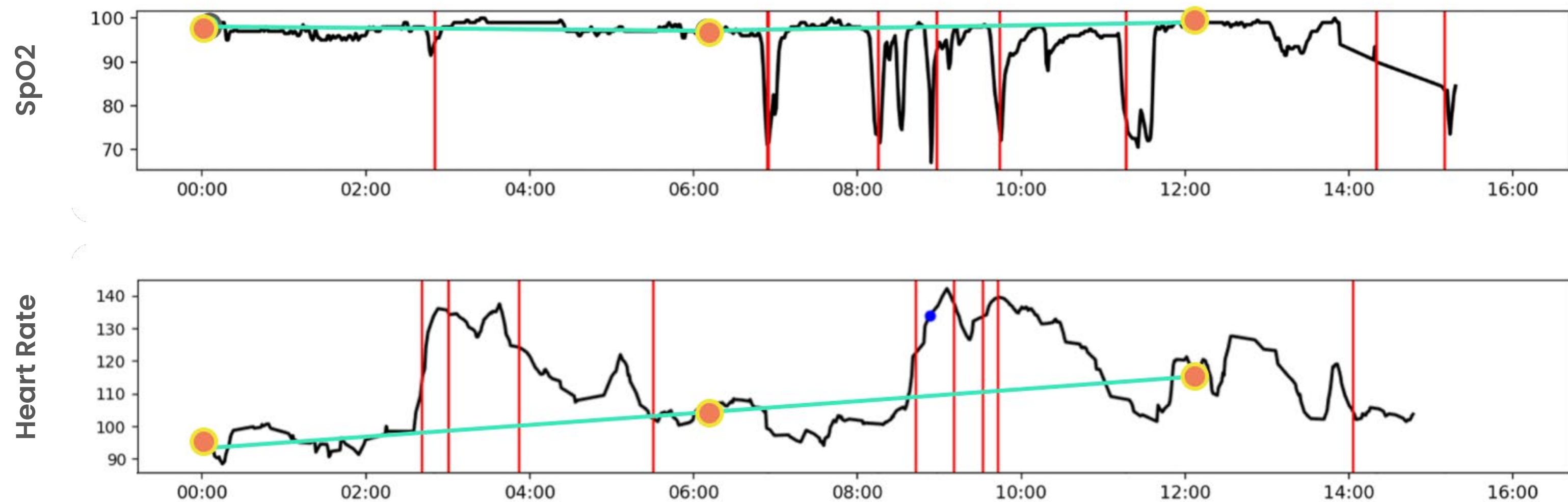


Manual Spot Checks are done once in 4–6 hours

Periodic Vitals Checks are inadequate

The Current Standard of Care for 90–95% of the Beds in Hospitals

If Continuous Monitoring is used, there were **17 alerts** before the patient went in Code Blue



 Spot Check Values

 Smart Alerts

What will it take to achieve **Zero Adverse Outcomes?**

Zero Code Blues | Zero Falls | Zero Pressure Ulcers

The solution needs to be

SIMPLE | SCALABLE | AFFORDABLE

Contactless Continuous RPM

to improve patient outcomes



Hospital Logo

Dozee Demo

All Wards

Search for Patients

Add Patient

D

Vitals

Alerts Log

Reports

Devices

Bed #	Patient Name	EWS	HR	RR	SpO2	Temp
Device #	Patient ID	Dozee	BPM	RPM	%	F
B123245	Kxxxx Sxxxx	MOD 3	112	25	95	98
DP-1209	PT12345					
B123653	Jxxxx F Kxxx	MOD 3	100	22	96	97
DP-1232	PT12345					
B124356	Mxxxx Jxxxx	MOD 2	90	23	97	98
DP-1203	PT12345					
B122964	Mxxxx L Kxxx	MOD 2	102	18	99	97
DP-1213	PT12345					
B124350	Bxxxx Oxxxx	MOD 2	72			
DP-1204	PT12345					
B124190	Hxxxx Pxxxx	MOD 2	96			
DP-1205	PT12345					
B124446	Vxxxx Kxxxx	LOW 1	69			
DP-1211	PT12345					
B123349	Mxxxx Sxxx	LOW 1	76			
DP-1223	PT12345					
B123781	Sxxxx Txxxx	LOW 1	105			
DP-1220	PT12345					
B123222	Sxxxx Bxxxx	LOW 1	87			

ALERTS

6:59 PM

XXXXXX

XXXXXX

25

BPM

5:59 PM

XXXXXX

XXXXXX

142/92

mmHg

5:40 PM

XXXXXX

XXXXXX

102

BPM

5:33 PM

XXXXXX

XXXXXX

108

BPM

5:31 PM

XXXXXX

XXXXXX

134/86

mmHg

5:04 PM

XXXXXX

XXXXXX

128

BPM

4:34 PM

XXXXXX

XXXXXX

28

BPM

4:20 PM

XXXXXX

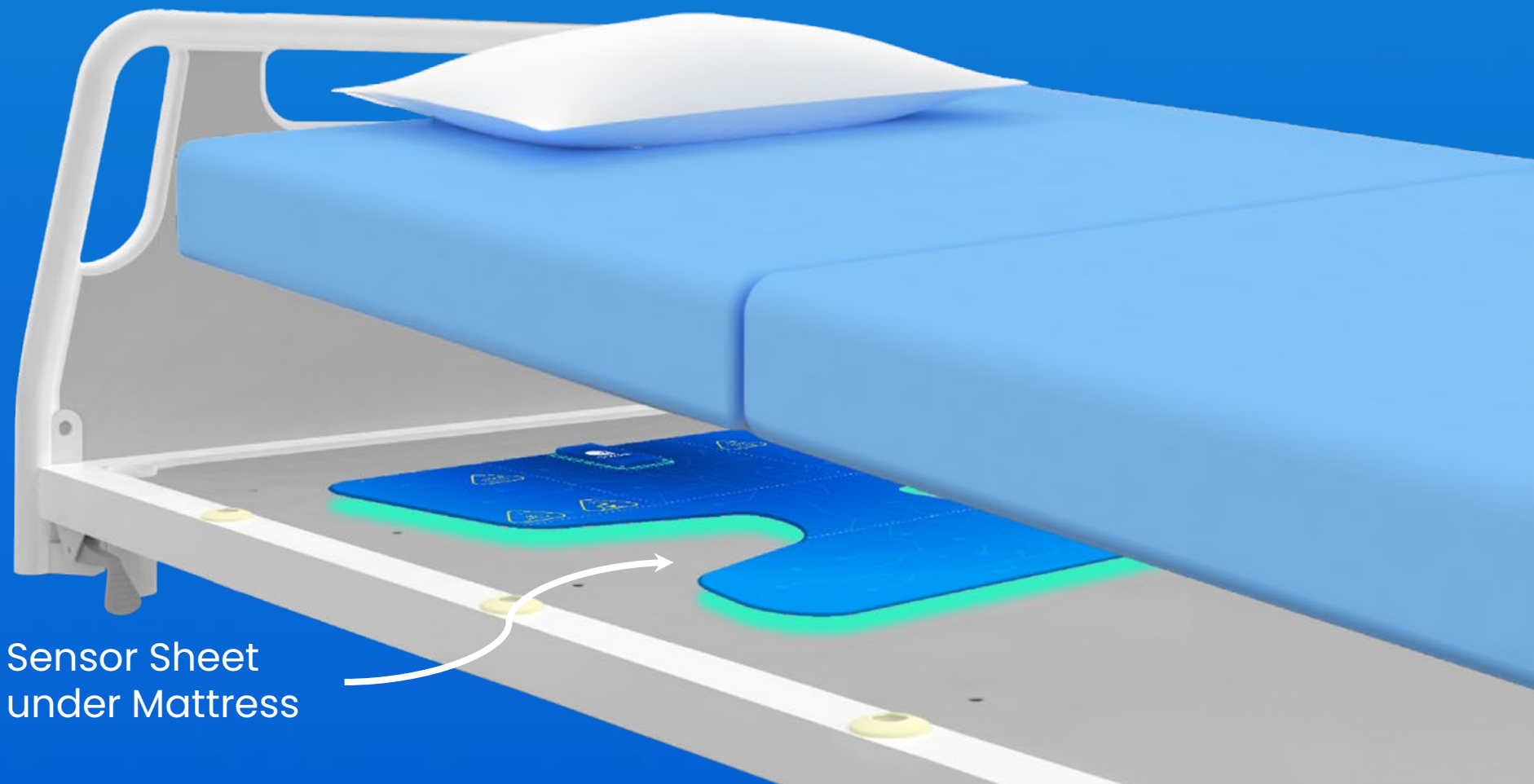
XXXXXX

BPM

Remote Telemetry System



Bedside Monitor



Sensor Sheet under Mattress



ISO 13485:2016
Certified

ISO 27001:2022
Certified

CDSCO
Mfg. Licensed

SOC Type II
Compliant

IEC
IEC 60601-1/1-2

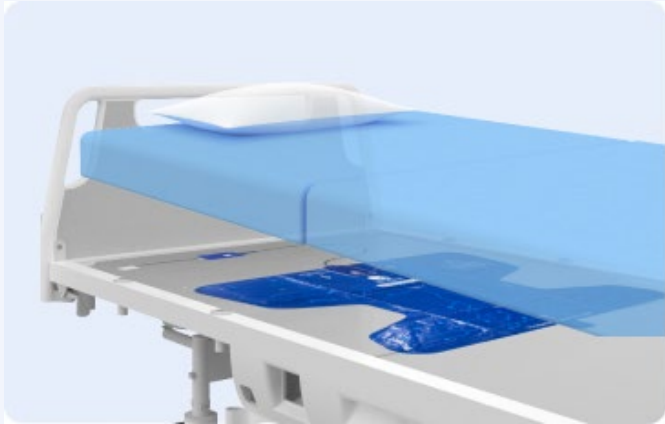
HIPAA
Compliant

ROHS
Compliant

Continuum of Patient Monitoring



Contactless



- Heart Rate
- Respiration Rate
- Bed Occupancy

Ambulatory



- Heart Rate
- Oxygen Saturation
- Pleth Signal



- Temperature



- Heart Rate
- ECG Signal



- Non Invasive Blood Pressure

Automated Early Warning Score | DEW | NEWS | MEWS | Custom S

Science Behind Dozee



The science behind Dozee

Ballistocardiography and Artificial Intelligence

Watch the Video [here!](#)

Ballistocardiography

Dozee uses features extracted from vibrations coming out of cardiac contractions like spectral energy distribution, harmonics and ballistocardiography waveform morphology to estimate the variations in patient vitals.



dozee AI Network

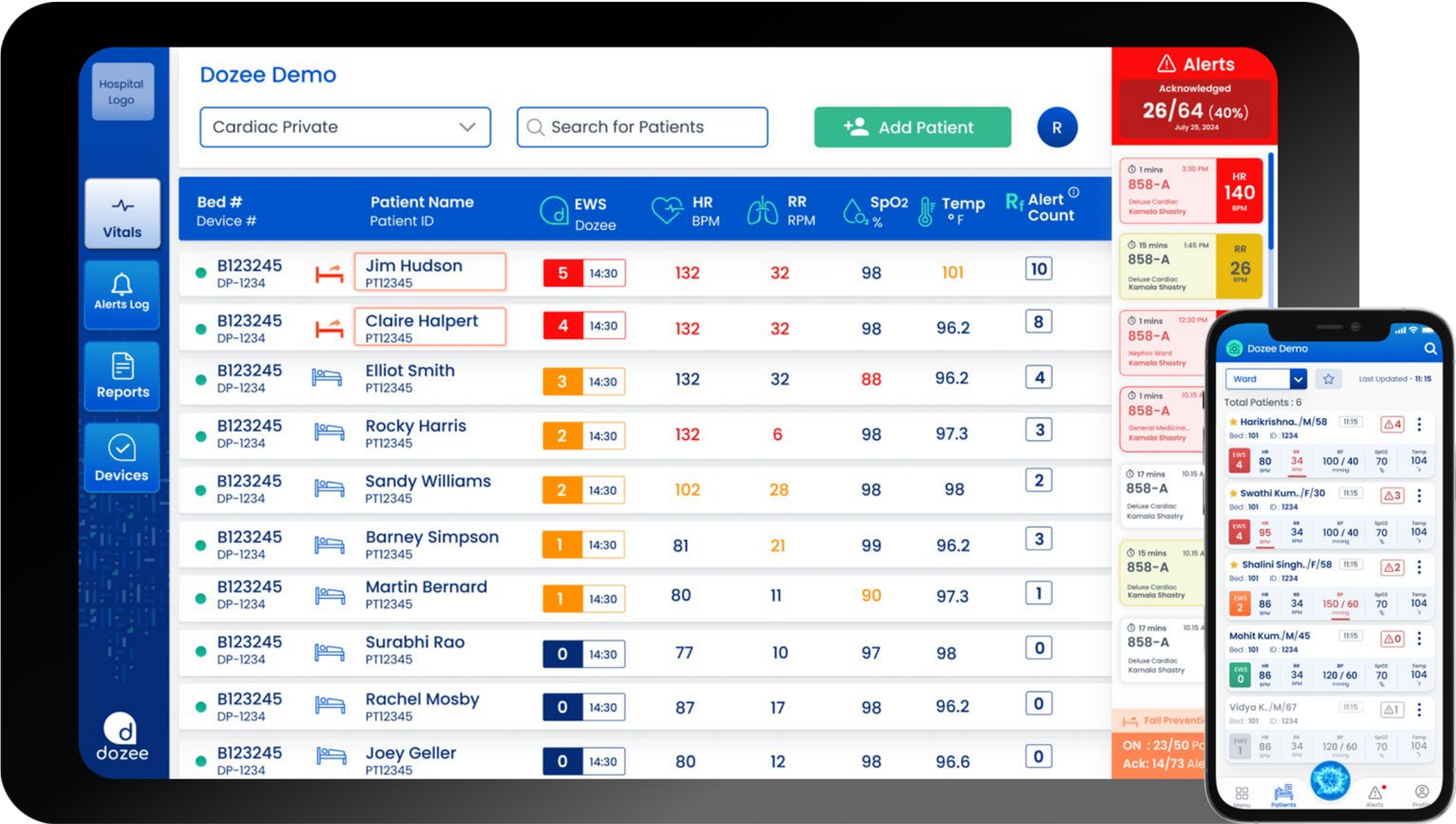
Ballistocardiography

Dozee uses features extracted from vibrations coming out of cardiac contractions like spectral energy distribution, harmonics and ballistocardiography waveform morphology to estimate the variations in patient vitals.



dozee AI Network

Remote Telemetry System

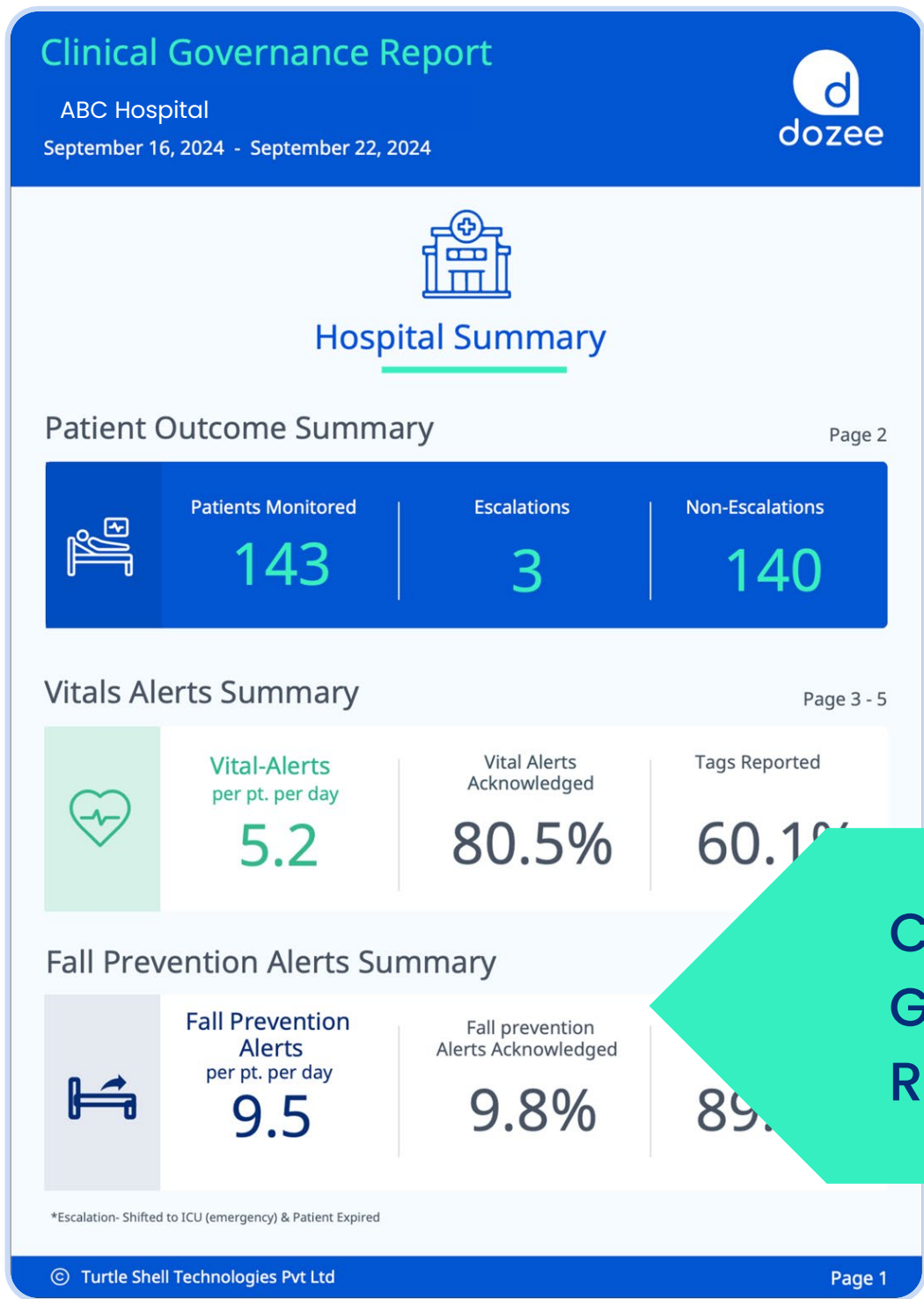


With Automated Early Warning Score

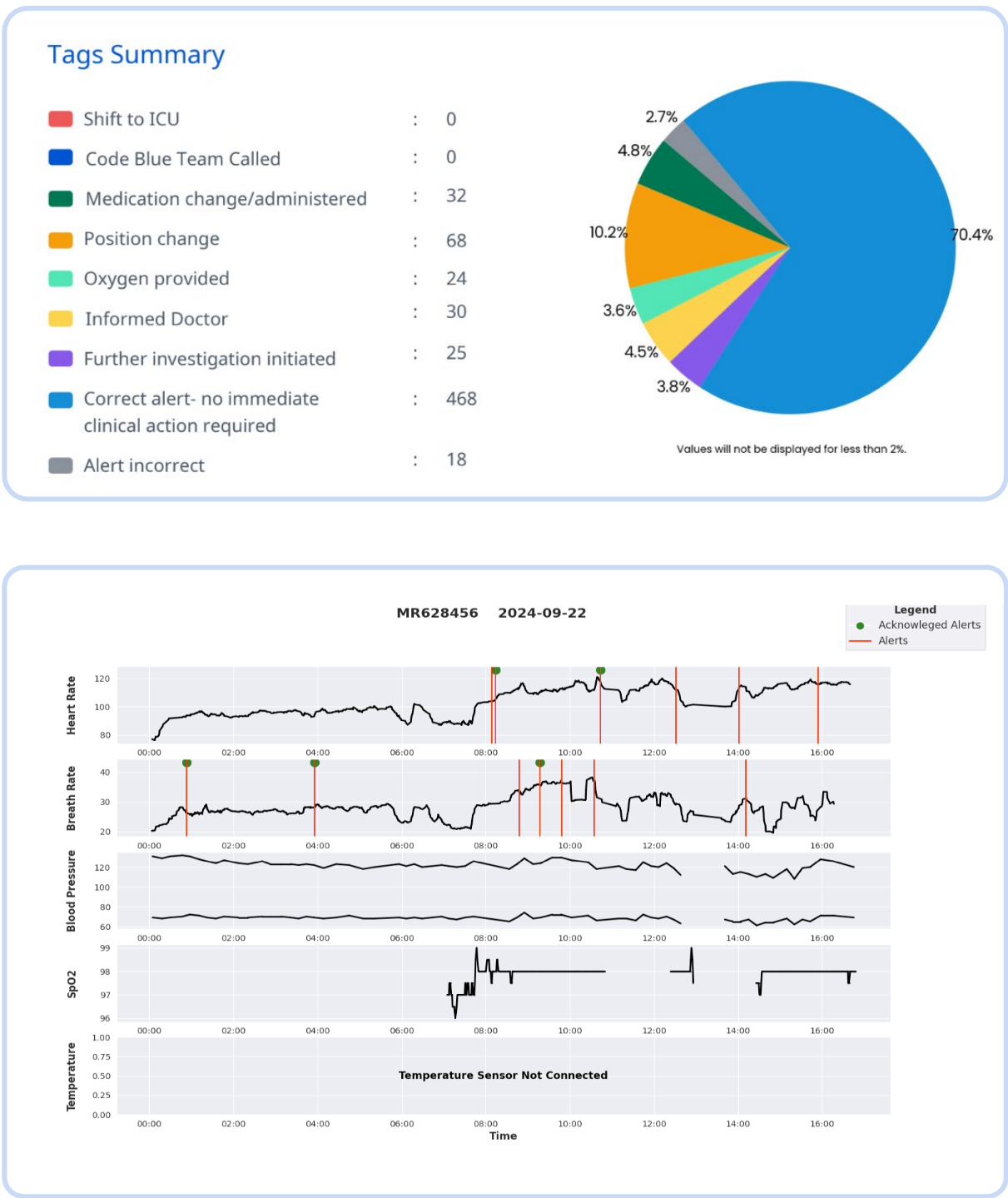
NEWS
NEWS2
MEWS
Any other EWS

Multi-tiered Escalation Protocol

Weekly Administrative Summary



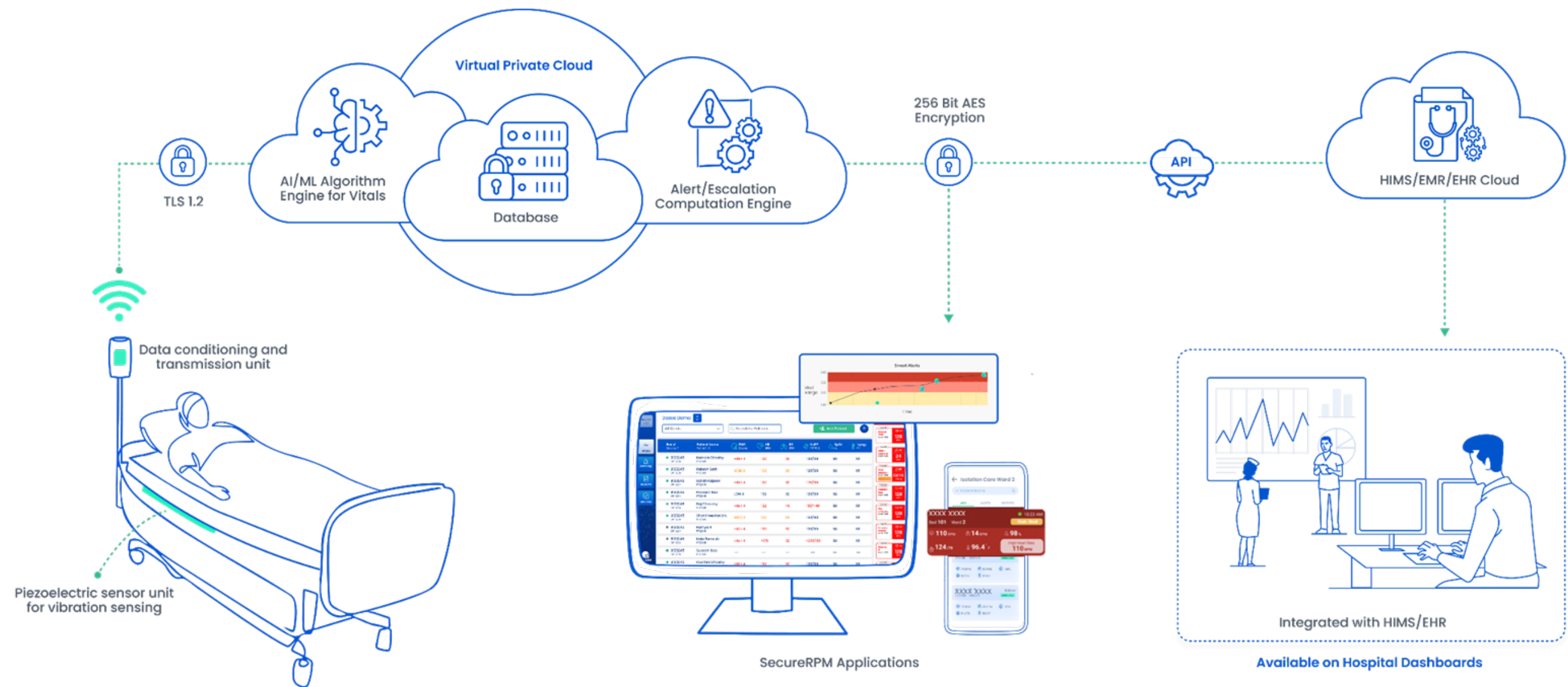
Clinical Governance Report



Alert Acknowledgement and Tag Report

Patient Vital Trend Report

Seamlessly Integrated into Workflows



APIs & SDKs to enable quick integration with the EMR



Integrated to **PointClickCare, Matrix***

Early detection of deteriorating patients in general wards through continuous contactless vital signs monitoring

Ambuj Yadav¹, Himanshu Dandu¹, Gaurav Parchani², Kumar Chokalingam^{2*}, Pooja Kadambi², Rajesh Mishra², Ahsina Jahan², Jean-Louis Teboul³ and Jos M. Latour⁴



Study Site: King George Medical University, Lucknow

KEY FINDINGS

94% of the patients who experienced health deterioration escalated

16_{HRS}
IN ADVANCE

Dozee's EWS is proved more specific than the current standard of care

15–20x
LESSER ALARMS

Effect of automation And digitization on Nursing Efficiency

2.5_{HRS}
OF NURSING SAVED

Impact of Remote Patient Monitoring Systems on Nursing Time, Healthcare Providers, and Patient Satisfaction in General Wards

Pavithra L S  • Sheen Khurdi • Priyanka T. G • Patrisia Mary S

Published: June 04, 2024

DOI: 10.7759/cureus.61646 

 Peer-Reviewed



Study
Conducted at:



KEY FINDINGS

Healthcare Providers'
Feedback

>90% HCPs

reported Improved Care
& Patient Safety

Patient Feedback

74% Patients

felt safer with RPMS

Usability and
Decision Support

>80% HCPs

find RPMS helps in
Clinical Decision Making

Nursing Efficiency

43% increase

in time available for Direct
Patient Care

Apollo Sets New Standard of Patient Safety



// **Zero Code
Blue events**
since June 2023 at
Apollo Jayanagar

Clinical Partners and Impact



AIIMS,
Jodhpur



NIMHANS



Sri Jayadeva
Institute



CMC
Vellore



Critical Care



Prof. Ravi Mahajan

Director Critical Care Integration and Transformation, Director of Research and Innovation, **Apollo Hospitals, India**



Prof. Jean-Louis Teboul

Professor of Therapeutics and Critical Care Medicine at the **University Paris-South in France**



Dr. Rajesh Mishra

President at **Indian Society for Critical Care Management**

Cardiology



Dr. Kunal Sarkar

Senior Vice Chairman, Director and Head of Cardiac Surgery, **Medica Superspecialty Hospital**



Dr. Yogesh Kumar Kothari

HOD and Consultant Cardiac Sciences, Interventional Cardiologist & Electrophysiologist, **Bhagwan Mahaveer Jain Hospital**

Patient Safety



Dr. Lallu Joseph

Secretary General at & **CAHO**
Quality Manager at **CMC Vellore**

Hospital Administrators



Dr. Nikhila Juvvadi

Medical Director, **Dozee**
Former Unit Head COO, **Star Hospitals**.
Former Chief Clinical Officer, **Loretto Hospital, Chicago**



Dr. Wilson

Board-certified OB/GYN and Emergency Medicine physician
Medical Director, **CAIT**



Patents (13)*

*3 Patents Granted



Research Papers (16)

To access research papers,
scan the QR code



Trusted by Top Brands Globally



280+
Hospitals



16,000+
Dozee Beds



14M+
Nursing
Hours Saved



25,000+
Timely
Interventions



Breach Candy
Hospital Trust

P. D. HINDUJA HOSPITAL
& MEDICAL RESEARCH CENTRE



BELLE VUE
CLINIC



VIJAYA GROUP OF HOSPITALS
UNIT OF VIJAYA MEDICAL & EDUCATIONAL TRUST



Rajiv Gandhi Cancer Institute
and Research Centre





Continuum of Care From Hospital to Home

Continuum of Care From SNF to Home

Benefits

- Tele-Transitional Care
- Reduction in ED Visits
- Reduction in 30/60/90 Day Readmissions

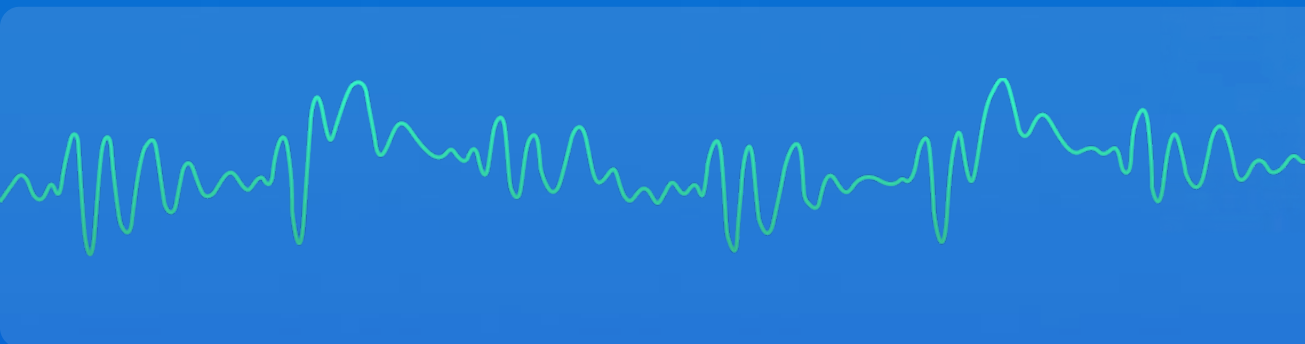




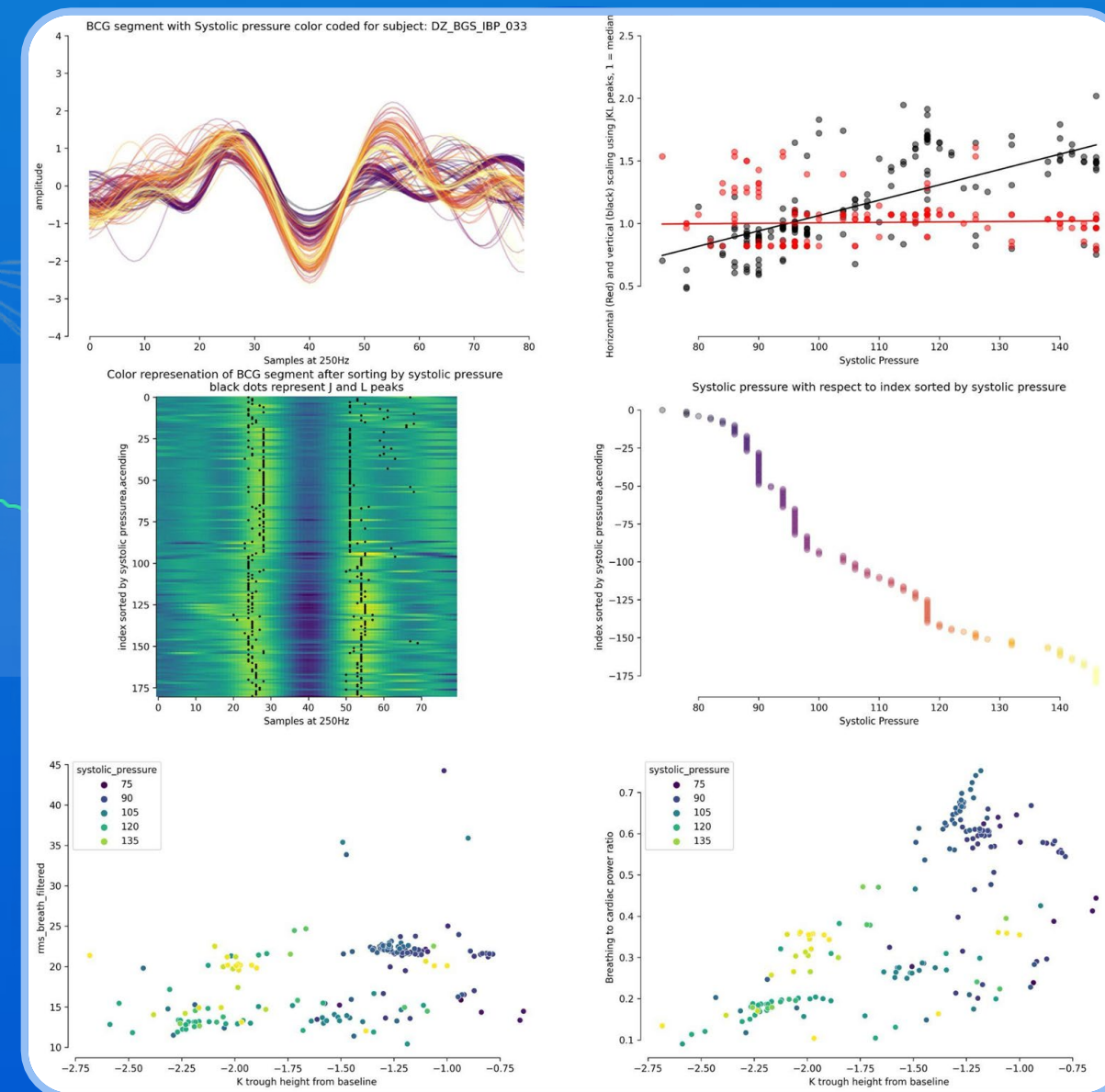
Innovation Pipeline

World's First Non-contact Blood Pressure (NcBP)TM

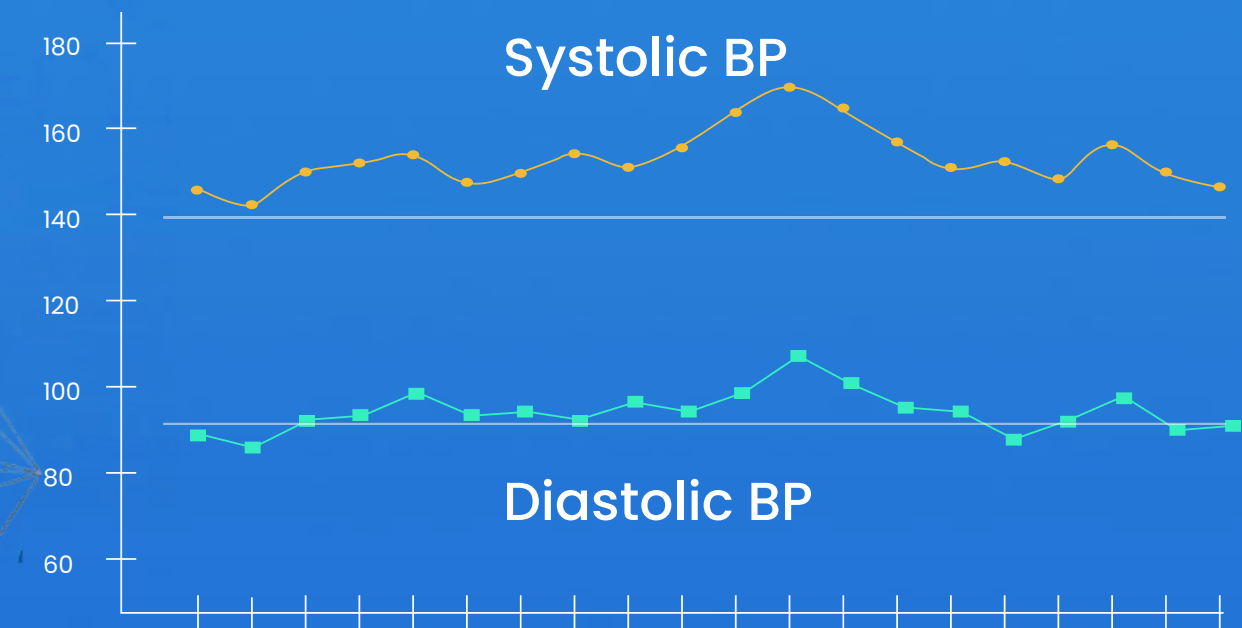
Dozee uses features extracted from vibrations coming out of cardiac contractions like spectral energy distribution, harmonics and ballistocardiography waveform morphology to estimate the variations in blood pressure.



BCG Signal

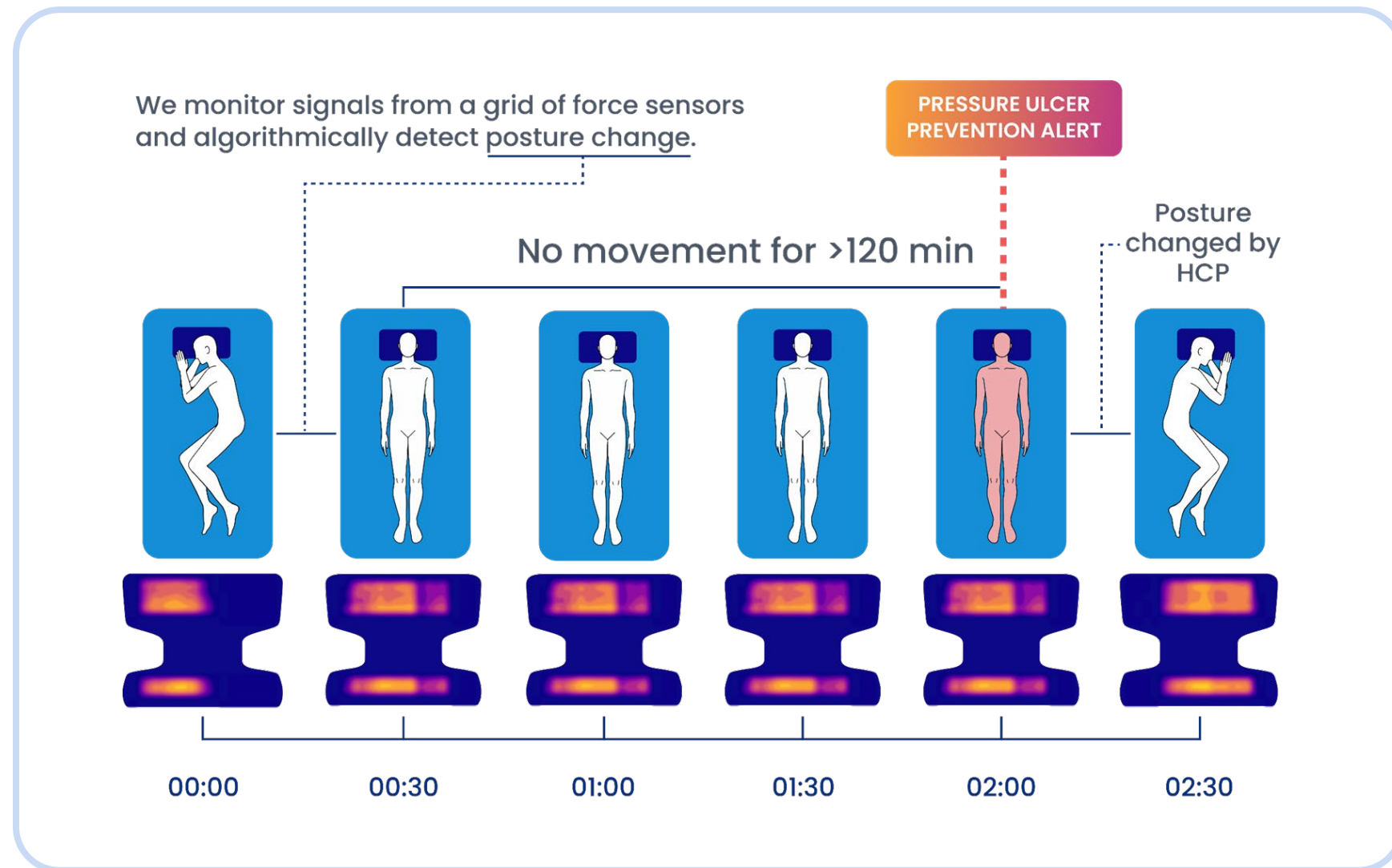


Dozee AI Engine

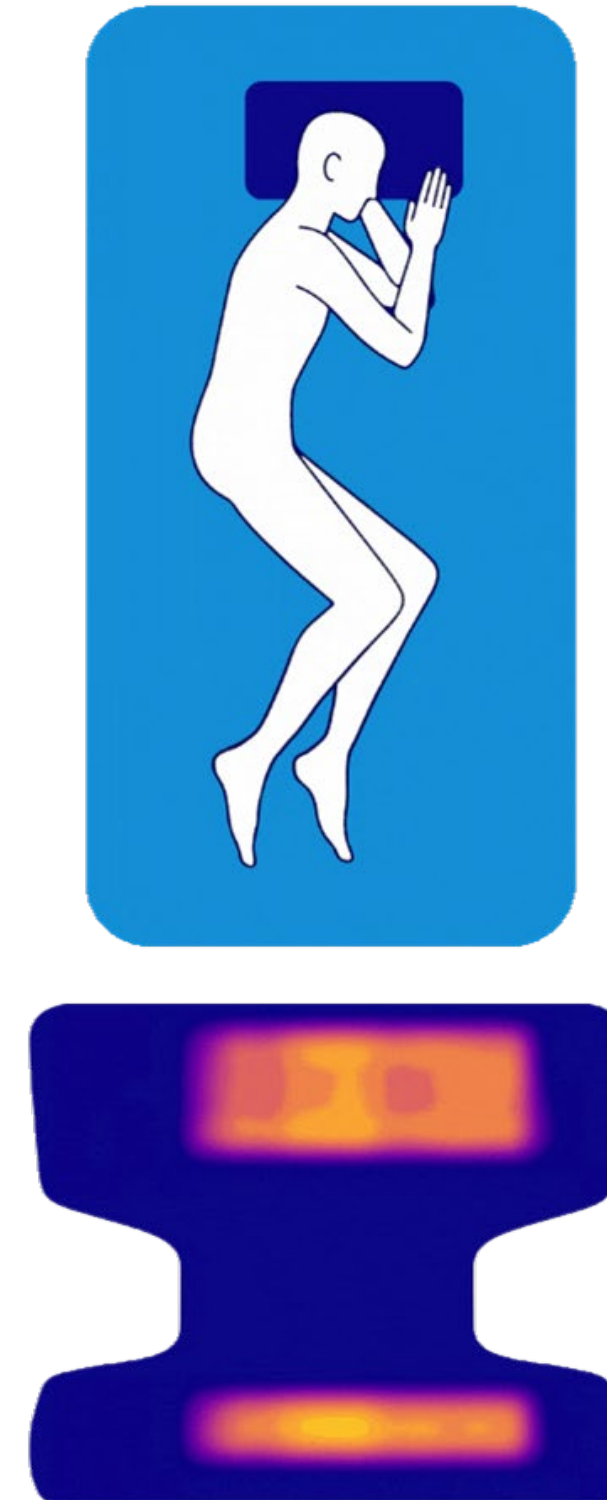


*Currently under FDA review

Pressure Ulcer Prevention Alert

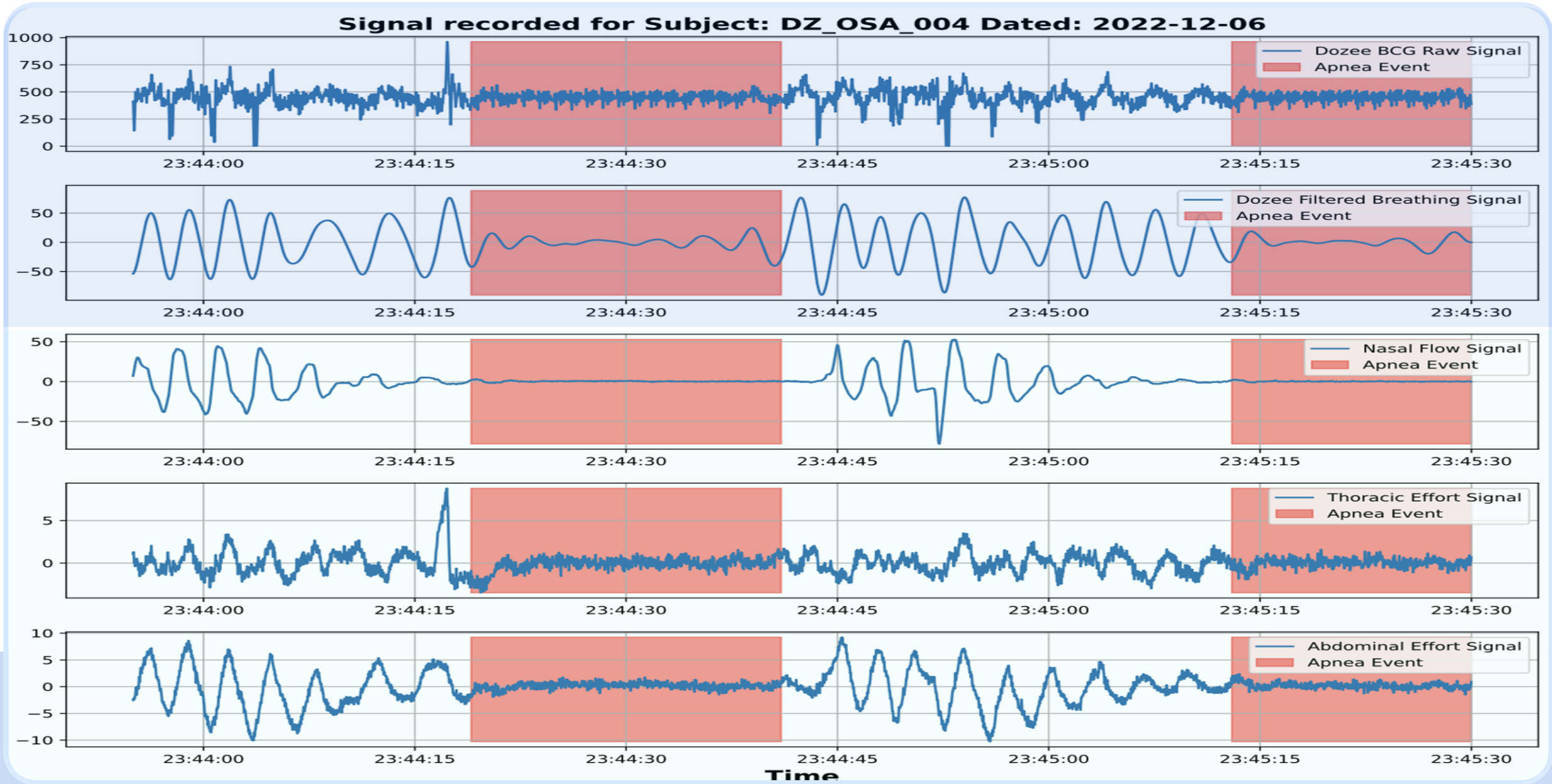


Pressure Ulcer Prevention



Dozee monitors the changes in the pressure heat map and if there is not change in the heat map every 2 hours (configurable) it raises an alert.

Sleep Apnea



Dozee

Level 1 PSG



www.dozeehealth.ai