HealthCare Infra is Obsolete & Broken!
There is a massive shortage of healthcare staff

Nurse: Patient
1:40
WHO Recommends
1:4

Specialist: Patient
1:5000+
WHO Recommends
1:500
And these ratios aren’t getting better

Can you hear the alarm bells?

Covid has made it harder to be a health-care worker. Now, many are thinking of quitting

https://www.cnbc.com/2021/05/31/covid-is-driving-an-exodus-among-health-care-workers.html
Can the technology help **bridge this gap?**

**Dozee**
Contactless Remote Patient Monitoring & Early Warning System
Any Bed + Dozee = Step-Down ICU
Creating e-ICUs anywhere within 5 mins at 20% the cost

Contactless
Heart Rate
Respiration Rate
Sleep
Heart Rate Variability
Sleep Apnea
DEWS

Extensible Accessories
Temperature
Blood Pressure
Oxygen Saturation
12L ECG

With AI based
Predictive Health Risk Triaging
Continuous Remote Patient Monitoring
Like never seen before - globally
Ballistocardiography

The core technology in Dozee is based on Ballistocardiography (BCG), a non-invasive technique of measuring micro-vibrations generated by cardiac contractions, respiration, body movements or other events like snoring, seizures, tremors etc.

Comparison to Plethysmography (sensors used in wearables)
Placed closer to torso, BCG is more accurate and can obtain more clinical details like sleep apnea, heart-failure, arrhythmia, measuring vibrations produced in each cardiac output and every respiration.
Ballistocardiography

- Technique of graphic representation of the movements of the body imparted by the ballistic forces (recoil and impact)
- Utilizing piezoelectric sensors to acquire the vibrations from the subject
- Characterization, analysis of the signals and applying filtering and clustering techniques to acquire heart rate (HR) and respiration rate (RR)
Contactless Sensing + AI Algorithms = Innovation + Impact

that senses even your heart valve movements, placed under an 18 in mattress with **clinical grade precision**.

---

**Dozee** - vitals monitoring, alert system

**Coming Soon**
- Daily Alert Cards
- Touchless Blood Pressure Measurement
- Touchless Apnea assessment

**Under Clinical Trials**
- Left Ventricular Ejection Fraction - Heart Failure Warning System
- Heart Failure Monitoring - Home management to help with chronic care management
- Sleep classification

**Under R&D**
- Touchless Arrhythmia Detection
- Vascular Health Assessment
- Valvular performance determination
- Volumetric loop creation
- Tremor + Seizure assessment
- Respiratory Effort monitoring and characterization
Patient Triaging made super easy

Dozee Pro measures vitals continuously

Monitor and get alerted on smartphone app or web

DEWS: HIGH
12 (4 new)

DEWS: MODERATE
20 (6 new)

DEWS: LOW
89

Tangible Impact
Every Dozee saves ~1 nursing hour / day
Saves ~30-40 lives per year in a 100 bedded Step-down Facility

Intangible Impact
Reduced human errors
Improved administration
Less stress on staff
Lesser chances of infection
Improved patient satisfaction
Effected 800+ successful ICU transfers in IGGMC Nagpur

6 wards monitored remotely from the command center

Watch video

Nurse:Patient Ratio
1:150

Still best recovery rates in entire Vidarbha Region

Received Award for COVID response from Niti Ayog
Our Impact

“We have deployed Dozees at Army hospital to continuously monitor Covid-19 patients. It watches over the patient even when doctor’s eyes are away. Dozee never sleeps!”

- Lt Gen Dr. Madhuri Kanitkar
Highest Ranking Woman in the Indian Army
Thank You

Questions?

Contact: gaurav@dozee.io

www.dozee.health