

https://vitacam.health/

MOYEEN@VITACAM.HEALTH / +358 50 486 8749



VITACAM TRIAGE: MEASURE RESP RATE, HEART RATE & RHYTHM IN REAL TIME





CLINICS IN DEVELOPING COUNTRIES

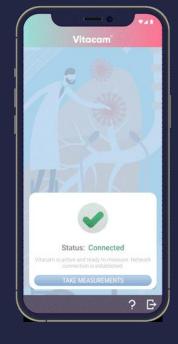
VITACAM MOBILE: MEASURE & TRACK PERIODICALLY



HOME CARE – CHRONIC CONDITIONS



ELDERLY CARE



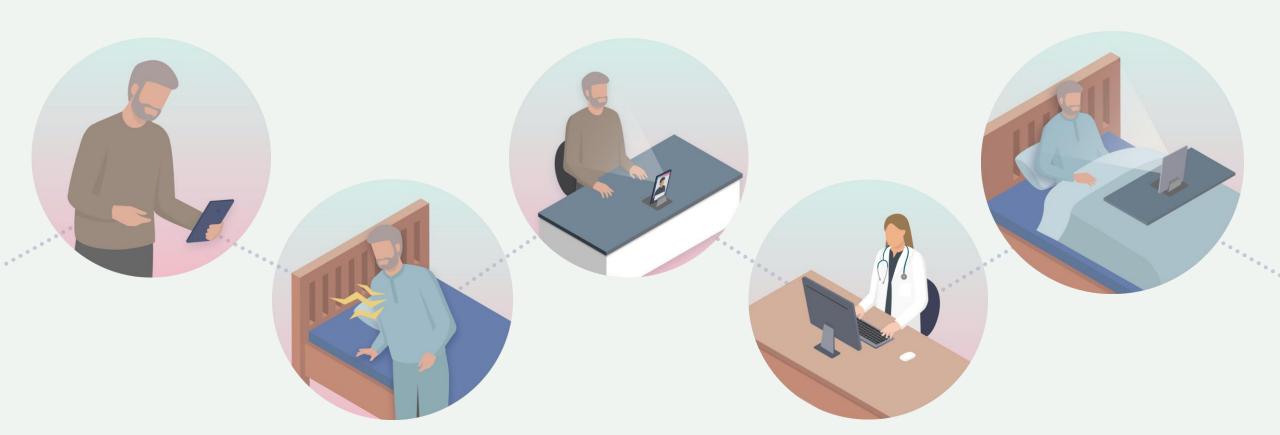
VITACAM: FOR BOTH CLINICAL AND HOME SETTINGS



A HEALTHCARE ASSISTANT IN YOUR POCKET

The most accurate software application for measuring vital signs using the smartphone camera with the appropriate regulatory approval

- For remote monitoring and virtual wards
- Allows patients to be monitored at home, saving costs of hospital bed days and expensive patient monitoring devices
- The first app measuring blood oxygen to enter clinical trials (Autumn 2023)
- Available for integration into other apps and platforms.



On-boarding

Vitacam functionality is available by downloading app

Trigger

Patient or a carer can use based on clinical guidance or upon need

Measurement

Measuring key vital signs using phone or tablet camera while sitting or lying in bed

Analysis

A remote clinician views the results or is notified if a threshold is reached

Action

Keep monitoring or apply intervention or optimize medication, as determined

CURRENT USE CASES

1) VIRTUAL WARD SUPPORTING EARLY DISCHARGE OF PATIENTS FROM HOSPITAL

- Virtual ward means setting up early discharge patients with pulse oximeters and other devices with a smartphone hub, for 2-4 weeks
- NHS England target for Dec 2024 is 24 000 virtual beds with only 10 000 achieved so far – a growing market
- 2) REMOTE MONITORING OF PEOPLE WITH CHRONIC CONDITIONS AT HOME
- Digital First DK: home monitoring for COPD, Heart Failure
- E.g. ETAPES FR programme with 150 000 patients

VITACAM BENEFITS:

- Save €300 per patient per year in hardware
- Save warehouse and logistics costs
- Increase coverage of patients with scalable and easy-to-use solution



SCIENCE-DRIVEN INNOVATION: FIRST TO MARKET WITH OXYGEN SATURATION

Heart rhythm & variability Oxygen saturation Respiratory rate Heart rate pulse COPD Fever **Atrial fibrillation**

- Available now
- Derived from motion analysis of chest
- Mean Absolute Error: 2 breaths per minute (vs gold standard)

- Available now
- Algorithms detect subtle colour changes of the face from pulsatile blood
- Mean Absolute Error: 3 beats per minute (vs gold standard)

- UNIQUE SELLING POINT
- Available now
- Based on statistical analysis of inter-beat intervals.

- UNIQUE SELLING POINT
- Ethics & regulator approved
- Under clinical validation (as per ISO 80601-2-61:2017)
- Targeting 2024

CLINICAL STUDY: CORNWALL, UK Q4/22 - Q1/23

Context

- Patients with COPD/Atrial Fibrillation/Hypertension
- Often hard to measure due to weak pulse. Living in remote areas.
- Average age: 75 years
- Measured over 15 minutes by two nurses, comparing to manual counting over 1 minute and ECG every 15 seconds

Results

- Respiratory rate accuracy*: 1,7 breaths/min BETTER THAN STATE OF ART
- Heart rate accuracy*: 3-4 beats/min (vs nurse/ECG) SAME AS STATE OF ART
- My favourite feature: "provides a lot of insight into potential problems." "GP access is limited, it could be really useful"
- "worlds apart in terms of advancement from telehealth,", "fantastic"









IMPACT IN AN ASSISTED LIVING FACILITY

"Not all health changes are visible, especially for the frail. With Vitacam, it's possible to escalate treatment sooner."



PILOT @ KATAJA, FINLAND

- Nurse on-duty during the day
- → carers responsible for most care

RESIDENTS – MANY WITH DEMENTIA

- Dementia can over-shadow everything else
 - -> Possible to miss changes in condition

IMPACT:

- Positive acceptance of video for medical purpose
- ➤ 3 escalations/interventions with 3 heart failure patients: 1 hospitalisation, 2 changes in medication

GET IN TOUCH

Try out the app:



Apple App Store



Google Play:





Request credentials by email to info@vitacam.health

NE Device SW Ltd.

Teknologiantie 7b 90590 Oulu Finland

www.vitacam.health



MOYEEN AHMAD | CEO

Ex-Nokia product management

Broad experience both in software and hardware product management, portfolio management and marketing.

Email: moyeen.ahmad@nedevicesw.com

Phone: +358 50 4868749



MIIKKA KIRVESKOSKI | CTO

Ex-Nokia software architect

Extensive experience in runtimes, connectivity, service frameworks, operator customisation and firmware updates. Holds several patents in mobile technology.

Email: miikka.kirveskoski@nedevicesw.com

Phone: +358 40 7284089