



Camera-based vital measurements for **life-critical decisions**

Detectivio -

Péter Boda (Co-founder) PhD HCI/design

UC Berkeley's Deep Tech Innovation Lab -

Kehan Li (MEng), Pei Nie (L.L.M), Deena Kumar (MEng), Srinikhil

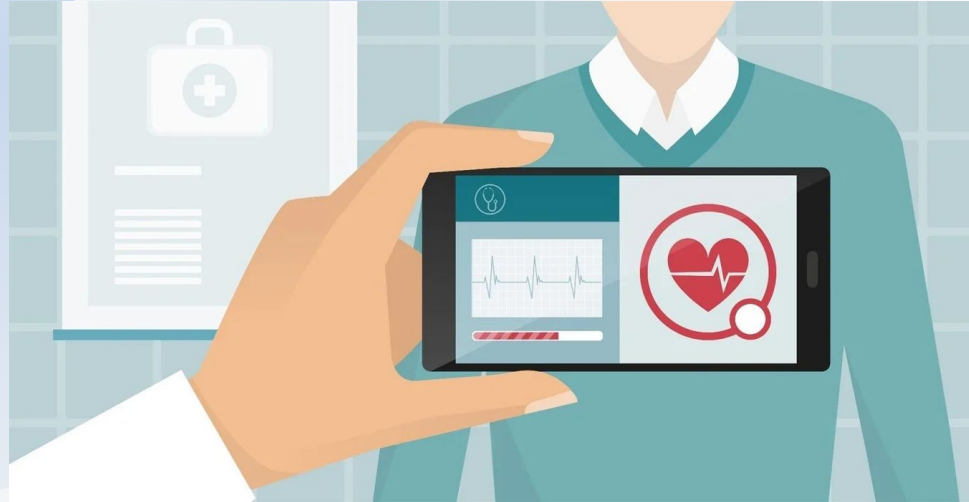
Vemuri (MEng), Quentin Jester (MBA)

detectivio.com



The Problem

The current three issues on vital signs measurements:



01

Contact-based & Manual

Current methods are manual, contact-based, and slow

02


Time-Consuming & Disruptive

Delays triage, interrupts workflows, and burdens frontline staff.

03

No Seamless Vital Signs in Telehealth

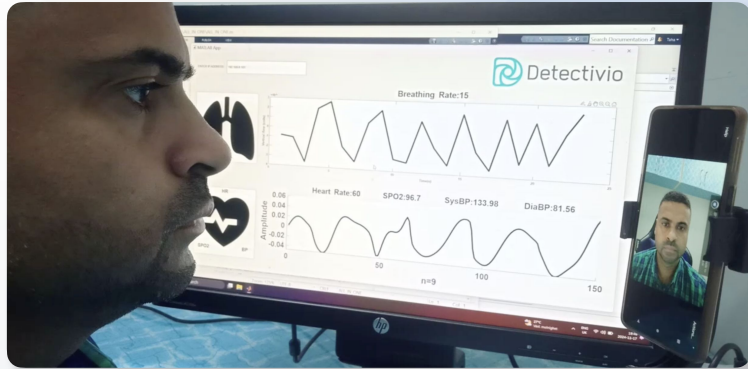
Remote care lacks real-time physiological data for decision-making.



Needs for a fast, contactless, and scalable way to collect accurate vital signs

Solution: **Detectivio** —

A software for contactless vital measurements



Input: mobile camera, video streamed via WiFi to engine
(partial on-device processing is also an option)

Engine: running on a PC, connected via WiFi
(fully on-device processing is also an option)

Enables **contactless & remote** checkups

Enhances **clinical workflows & interoperability**

Expands the utility of **telemedicine**

- telehealth visits
- remote patient monitoring (RPM)
- patient reported outcome (PRO)


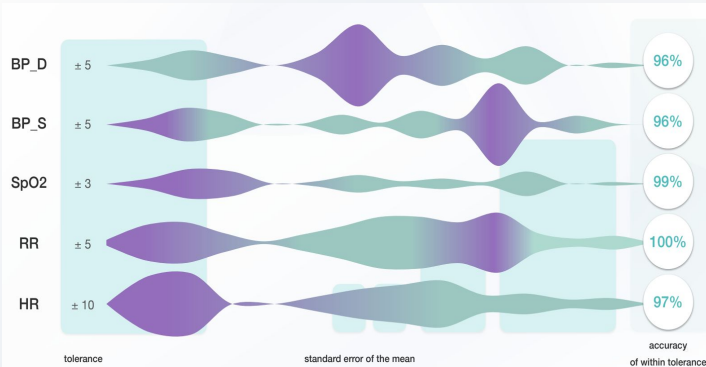
Empowers 3rd parties, also **beyond healthcare**

Technology Validation

Performance accuracy= 96-100%
within medically accepted tolerance
ranges

Peer-reviewed publication

**2 clinical trials, more than
400 patients in 5 clinics**



Infectious Diseases
ISSN: (Print) (Online) journal homepage: <https://www.tandfonline.com/loi/infd20>

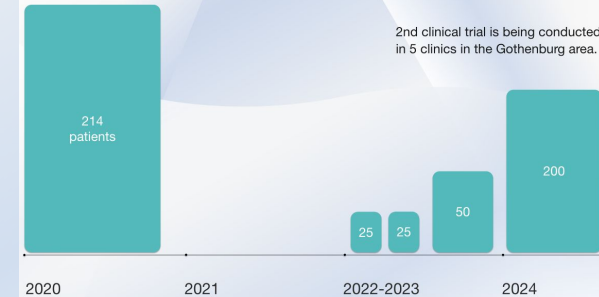
Remote investigation and assessment of vital signs (RIA-VS)—proof of concept for contactless estimation of blood pressure, pulse, respiratory rate, and oxygen saturation in patients with suspicion of COVID-19

Stefan Malmberg, Taha Khan, Ronny Gunnarsson, Gunnar Jacobsson & Pär-Daniel Sundvall

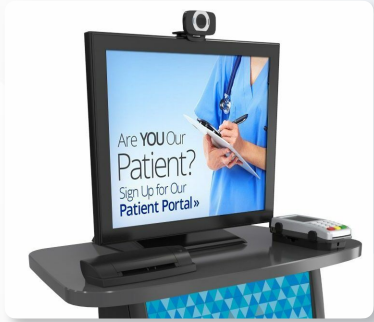
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To link to this article: <https://doi.org/10.1080/23744235.2022.2080249>

Clinical trials



Customer Discovery



"With this technology, nurses would spend less time on repetitive measurement tasks, especially helpful in high-volume clinics or when staffing is tight."

— **Nurse from Tang Clinic**



"This technology can be widely adopted by Nursing homes and long-term care for non-intrusive monitoring in the U.S."

— **CTO of National Alliance on Mental Illness**



"We have strong interest in using Detectivio to measure real-time recovery metrics in recovery zones."

— **Staff at Bio BodyFitness**



"If I am in an emergency medical condition, this quick process of measurement will make me feel safer as it tasks much less time than waiting for a nurse to measure these vitals."

— **Recent ER patient**

Go To Market Strategy



**€57
Billion**

Total Available Market (TAM):
2023 Telemedicine
in Europe and the USA
(25% CAGR to \$431B by 2030)

**€34
Billion**

Serviceable Available Market (SAM):
Medical chat and video
in Europe and the USA

**€2,3
Billion**

Serviceable Obtainable Market (SOM):
20% of video and 5% of chat
in Europe and the USA

- Prioritizing **partnerships** with **large telemedicine platforms** (Teladoc, Amwell, MDLIVE, Babylon Health) to ensure **rapid scalability**.
- **Regulatory-first approach** by completing **CE marking** and **FDA clearance** as soon as possible to **enable broader adoption in clinical settings**.
- **Direct consumer-facing application** by developing a **consumer-friendly health tracking app** to gain early traction **before full-scale B2B adoption**.

Competitive Landscape



Detectivio advantage



Peer-reviewed results, accuracy and transparency



Hardware device enables clinical data collection & validation for CE/FDA certification



Seamless integration to clinical and telemedicine workflows



Detectivio covers a broader set including oxygen saturation and blood pressure

Detectivio Team

Management Team



Stefan Malmberg

CEO, PhD MD
Founder



Magnus Nicklasson

Legal & Regulatory affairs
Co-founder



Taha Khan

CTO, PhD CS
Founder

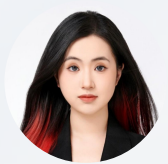


Péter Boda

PhD HCI/design
Product, AI+design, digital health
Co-founder

Detectivio was founded by a tech-savvy doctor and a computer science engineer with a Ph.D. in using AI for healthcare.

Berkeley Advisory Team



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Thanks for your listening!

Q & A Session