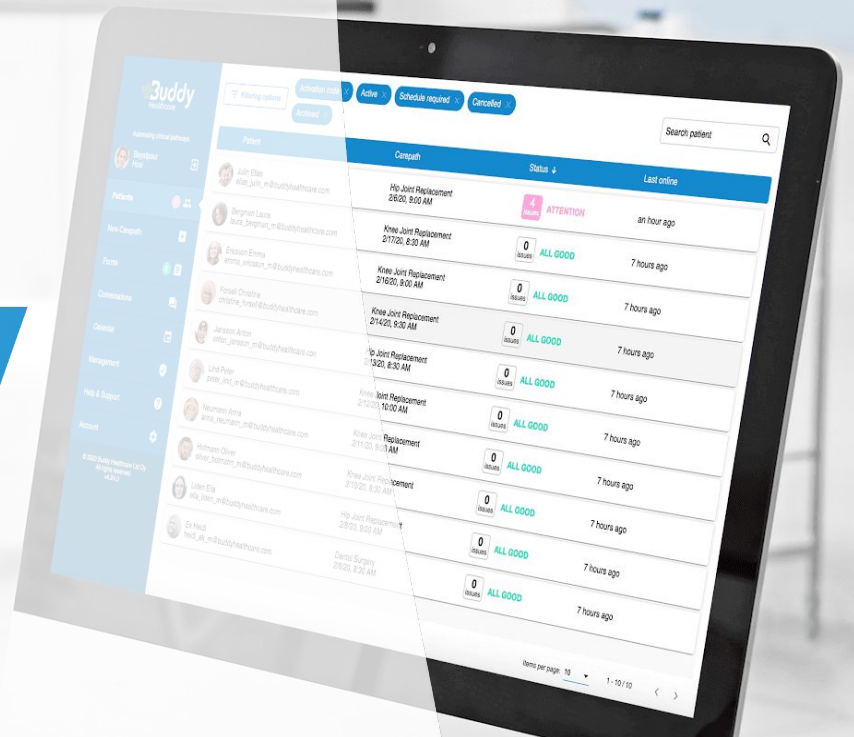
Connected4Health
transforming healthcare with digital technology

Buddy Healthcare

COVID-19
Remote Quarantine Care

March 2020



CHALLENGE: Hospitals can care only for severely ill Covid19 Patients

Hospitals are full of severely ill COVID-19 patients. After the initial triage, NHS 111 directs patients with mild COVID-19 symptoms or diagnosed asymptomatic patients, or patients sharing a home with diagnosed patients, home to self-quarantine. However, symptoms may develop quickly.

National challenges

- Lack of real-time data of the development of the epidemic.

Hospitals challenges

- Lack of real-time data on how symptoms develop at the population level and geographically.
- Hospitals lack resources to provide support and guidance and answer the calls of the patients.
- Quarantined patients, especially elderly without caregivers, need the feeling of being taken care of.

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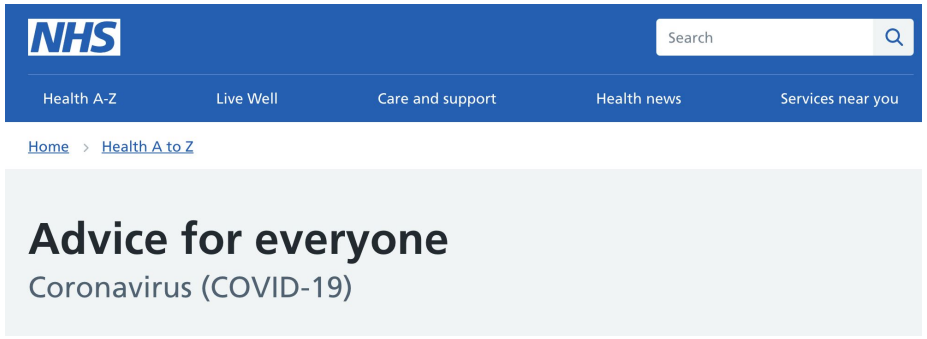
Mobile App for Patients

Supports Patients and Provides Peace of Mind

Accurate, timely information and instructions about COVID-19 published by healthcare authorities/health agencies.

A daily symptom checker. The symptom checker can be configured based on hospitals' instructions. It can monitor signs like fever, coughing, sore throat, or breathing problems.

Secure communication channel to NHS 111/Provider.



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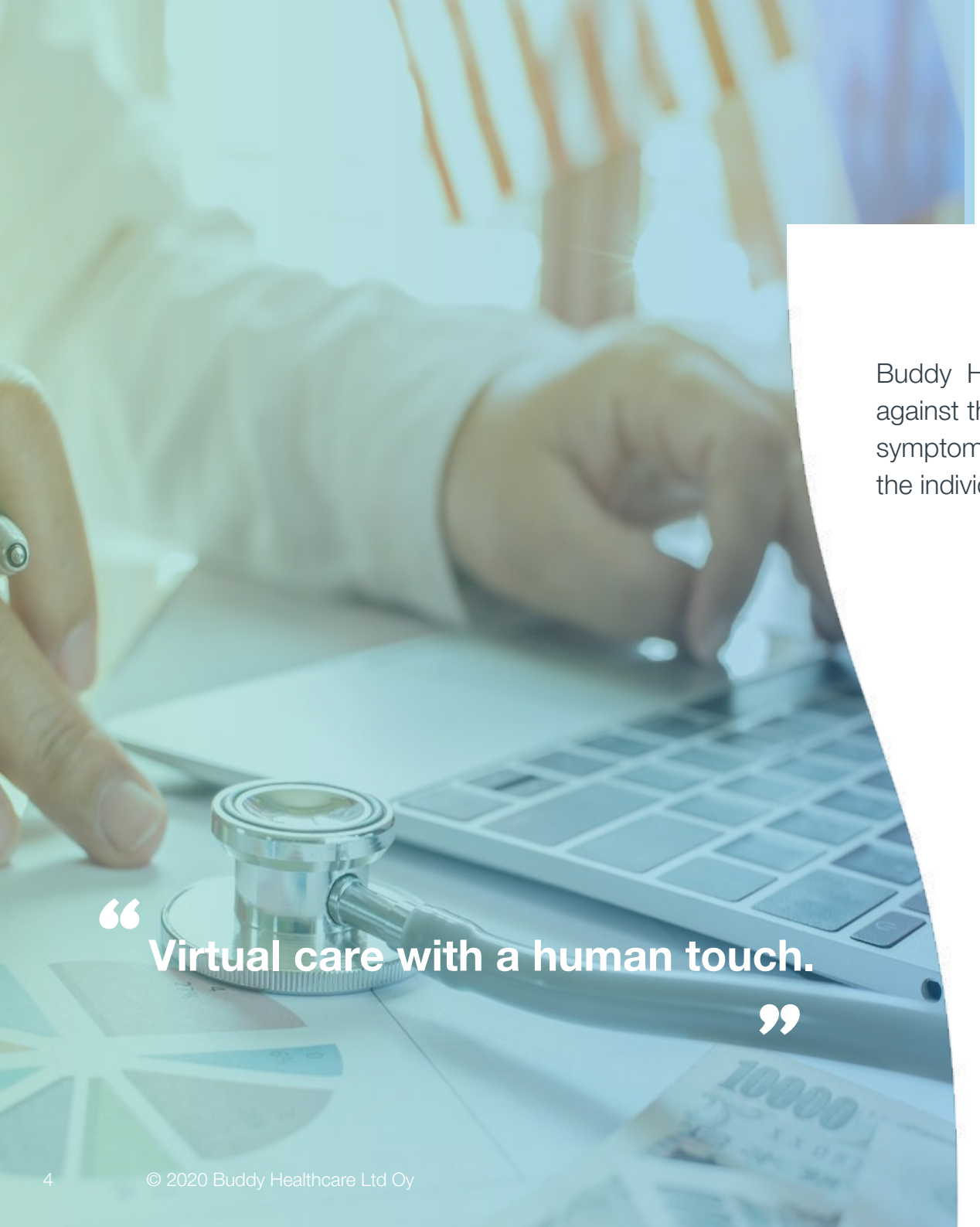

SOLUTION: Remote Care for Quarantined Patients

Buddy Healthcare wants to help our health system in the battle against the COVID-19. BuddyCare virtual care platform provides daily symptom tracking and supportive, secure communications between the individuals/patients and healthcare professionals.

How does COVID-19 remote-care work?

1. **NHS 111 assigns / Patient registers** to the COVID-19 mobile app for the patients who have either mild symptoms or diagnosed infections without symptoms, or are sharing a home with a diagnosed patient.
2. Patients **report their daily symptoms** through the mobile app.
3. NHS 111/Provider **gets notified when specific thresholds are met** and can then directly call the patient to the hospital ro give remote advice.
4. Healthcare authorities see **pseudonymised statistics** based on the data collected from patients.

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Monitoring Dashboard for Healthcare Professionals

Identify patients who need personal attention.

Care personnel can monitor periodically the symptoms and well-being of at-risk individuals.

The dashboard creates alerts if a patient/individual has specific symptoms or exceeds thresholds. Patient flow is managed into hospitalisation or recovery phase.

Secure messaging allows a patient - care personnel interaction throughout the whole care pathway.

Risk-assessment based communication through which care personnel can contact patients at risk or provide guidelines for home quarantine, self-isolation etc.

COVID19 Patient Symptom Phases

Asymptomatic (30%)	No symptoms			
Mild / Moderate (56%)	No symptoms	Symptoms (mild/moderate)	Recovery	
Severe (10%)	No symptoms	Symptoms (Severe)	Hospitalization	Recovery
Critical (4%)	No symptoms	Symptoms (Severe)	Hospitalization	Ventilation / ICU

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Real-Time Data Provides Insight

The mobile app is an effective tool to collect real-time data of the individuals who were not hospitalised and who have been sent home, or remotely triaged by 111.

The data collection provides valuable data for national health agencies and hospitals:

- Date and time for enrollment of the patient
- Daily symptoms development
- Disease progression
- Patients age, gender, and health
- Geographical location

The remote care platform collects **pseudonymised data** for building an overview to support further analysis and clinical studies.

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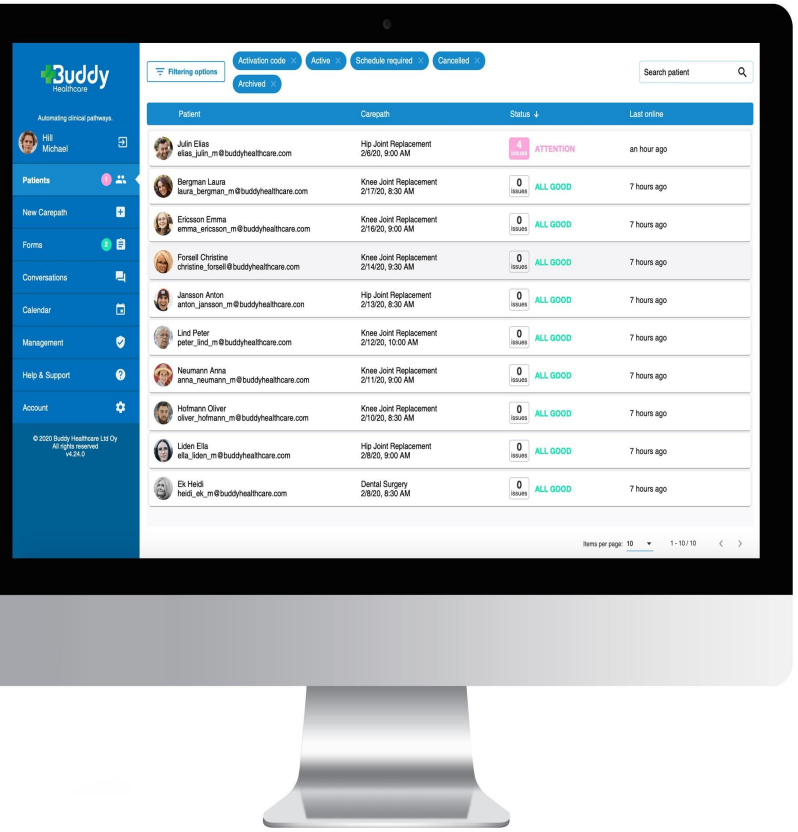
WHAT DOES IT LOOK LIKE?

14 Day Mobile Pathway for Self-Quarantined Patients



A patient calls NHS 111

NHS 111 decides to start remote care. They invite the patient to the app.

Provider gets alerted if set thresholds are met.

The Provider may decide to call the patient for hospital admission.

REPEAT 14 DAYS

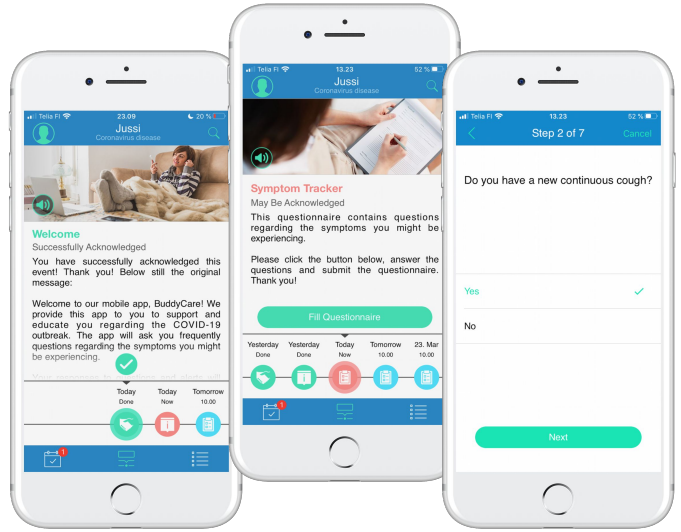
The patient downloads the app.

The patient sees general information about self-quarantine and self-treatment.

The patient answers daily symptom checker.

The patient can ask questions of the provider.

Quarantine ends.



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FORERUNNER IN REMOTE CARE DIGITALIZATION

Buddy Healthcare as a Partner

Why?

Ready to be deployed! The platform up and running in >50% of hospital districts in Finland with **strong references**.

The single platform for COVID-19 follow-up **covers the needs of population health management and hospital level case coordination**.

Developed together with healthcare professionals. **Fulfills the security and privacy requirements** in the hospital settings.

Disclaimer: *Please note that the BuddyCare app and platform does not provide diagnostic services or make recommendations or decisions based on the patients' answers. The purpose of the app is to optimize patient flow into clinics and hospitals and summarise relevant medical information for potential future medical personnel consultation.*

Company

- Founded in 2016
- Offices in Helsinki and Berlin
- 14 employees
- Over 120 care pathways in use
- **Connected4health** Value-Added Reseller for UK and Ireland.

Technology

- Cloud service in EU (AWS)
- iOS/Android apps for patients
- EU-GDPR- ja HIPAA-audited
- CE - MDD Medical Device Class I
- Supports strong authentication (Suomi.fi)
- Reporting database
- HL7/FHIR interfaces
- Supported languages:
- FI, SE, EN, DE, FR, NL, SP, PT, IT, PL

Customers

Tays Elämän tähden
UNIVERSITÄTSmedizin. MAINZ
HUS
UKSH Universitätsklinikum Schleswig-Holstein
OYS Oulu University Hospital
Uniklinikum Würzburg UK
Etelä-Pohjanmaan sairaanhoitopiiri
DBC GLOBAL
Satasairaala Satakunnan sairaanhoitopiiri
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