

2021



Cardionow - Iwelli online clinic toolkit for

Collect , Analyse and Share your health data: It has never been easier

Christos Maniotis
Omiros Papadopoulos
Paschalis Anatsis



Cardionow Project

The logo for Cardionow, featuring the word "Cardionow" in a bold, black, sans-serif font. The letter "C" is a solid black semi-circle on the left, followed by "ardionow" in lowercase letters.



Background



Doctors are confronting difficulties to develop effective treatment plans for patients that stays at home that can dynamically adapt to the conditions of patients.



There is not enough evidence on how to deal with patterns for different profile patients.



Doctors need access to information-rich data to become able to help patients to deal with their medical needs while at home.

Doctors Need





Public Health authorities need to monitor online the patients' location spread together with their status.



Professionals need to collaborate to monitor and optimize the results of the medical plan for patients that stay at home.



There is need to support patients' self-management especially when these stay at home.

Doctors Need



Cardionow Concept

Cardionow





Χρήστος Μανιώτης MD, PhD
Καρδιολόγος
Υπεύθυνος Ιατρικής Ανάπτυξης της εφαρμογής
CarE MediC

Όμηρος Παπαδόπουλος PhD, MBA
Project Manager
AI implementations
National Center for Scientific Research Demokritos,
Syndesis Ltd



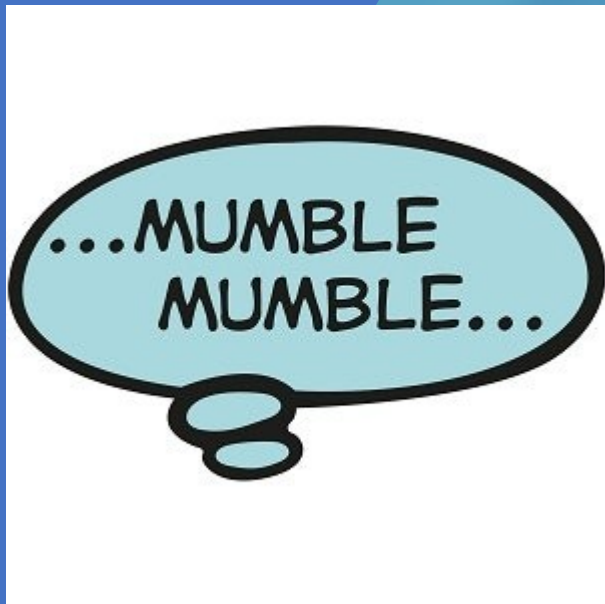
Πασχάλης Ανάτσης MBA, ACMA, CGMA
CEO ANATS SA
Anats.gr
Support the business and sustainability activities

**I DON'T ALWAYS HAVE A HOLTER
MONITOR**



**BUT WHEN I DON'T, CARDIOLOGY
ASKS ME 400 TIMES**

generator.net



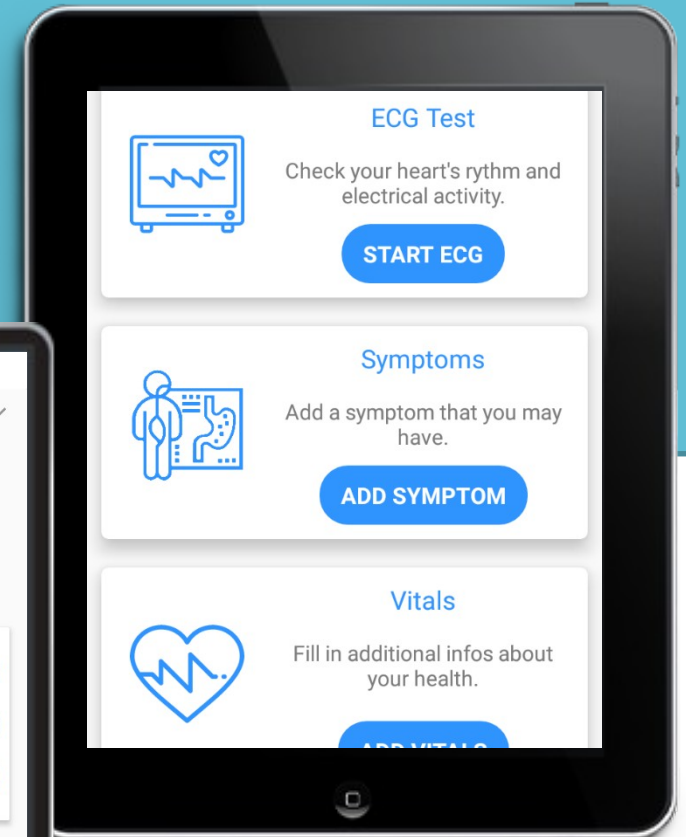
Iwelli online clinic toolkit

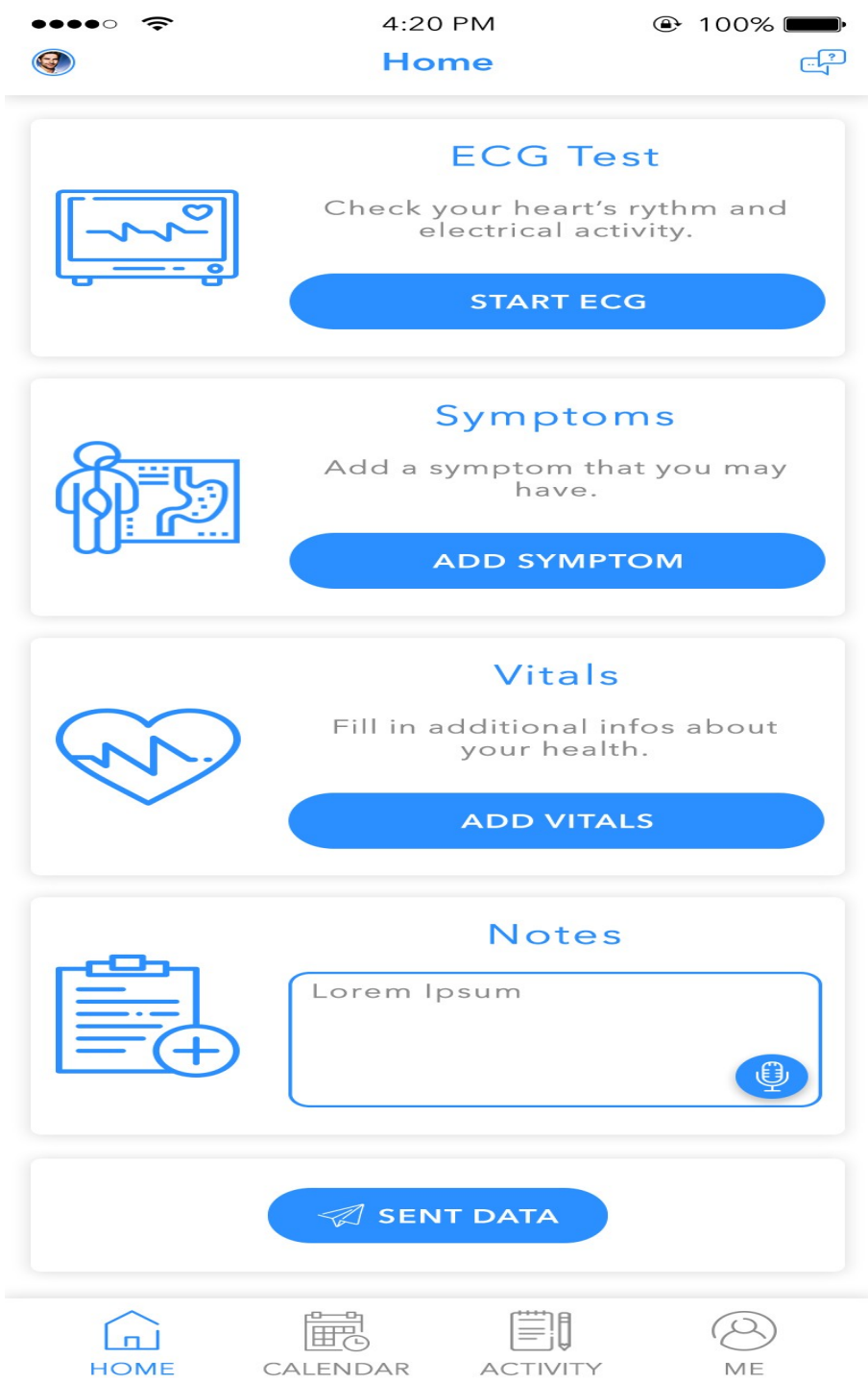
We created a toolkit that is able to provide to patients the ability to self-monitor their health status and generate information rich data for their doctors and for the public health authorities.

**Collect
Rich
Data**

**Analyse
Data**

**Include
data into
EHR**





iwelli App for Patients and Doctors

Collect Rich Data

- Monitor ECG
- Record Symptoms
- Monitor Vitals and Body Chemistry
- Take Images
- Take free Notes: voice to text and manual data entry



ECG Test



Check your heart's rythm and electrical activity.

START ECG

ECG Categories

Check for Arrhythmia

Check for Ischemia

Check for ANS Evaluation

Vitals

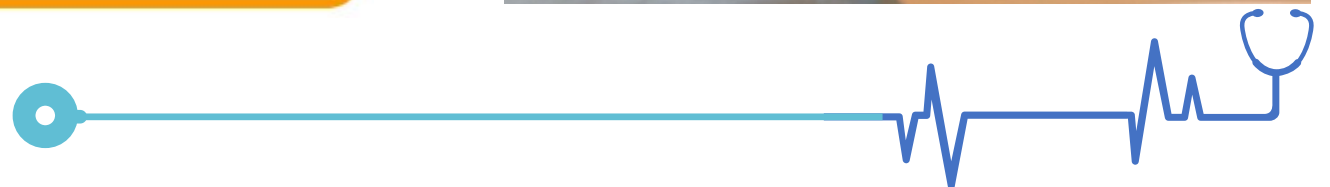
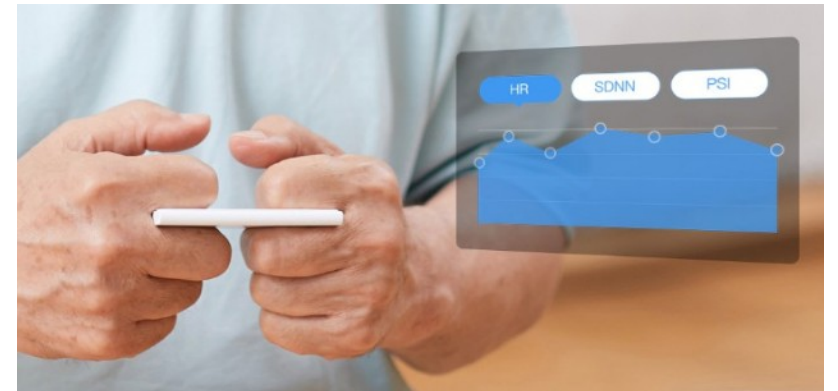
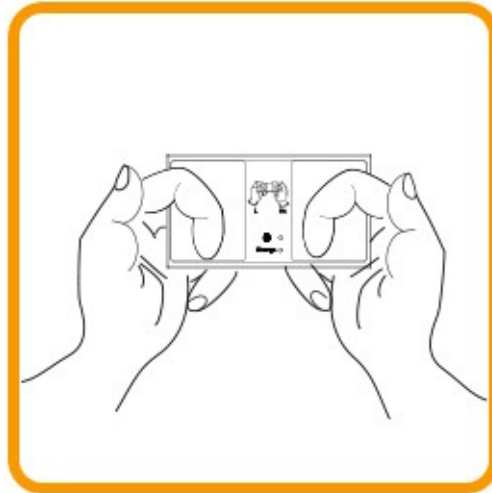


Fill in additional infos about your health.

ADD VITALS

How it Works

Get your Heart Recordings with a Mobile ECG the size of a business card



ECG Test



Check your heart's rythm and electrical activity.

START ECG

ECG Categories

Check for Arrhythmia

Check for Ischemia

Check for ANS Evaluation

Vitals



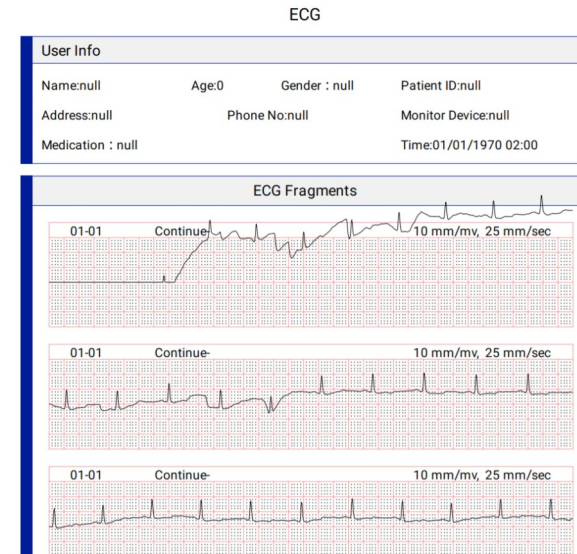
Fill in additional infos about your health.

ADD VITALS


How it Works


Analyse ECG Recordings for:

- Arrhythmia
- Ischemia (optional)
- ANS Evaluation (optional)





 This is Photoshop's version

 **Chest**
This is Photoshop's version

 **Belly**
This is Photoshop's version

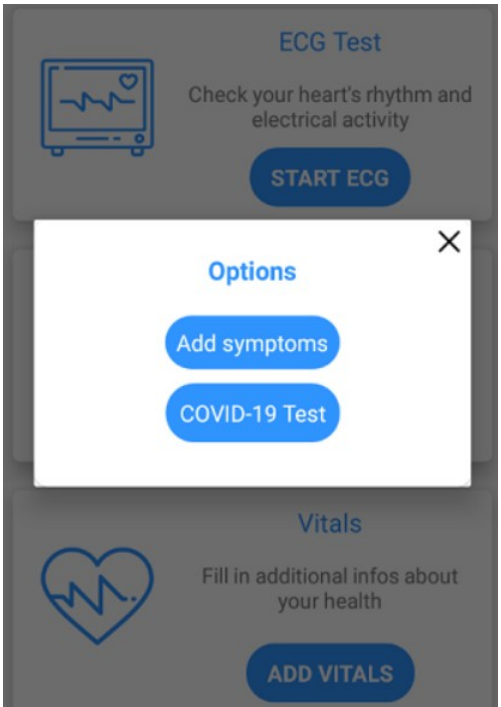
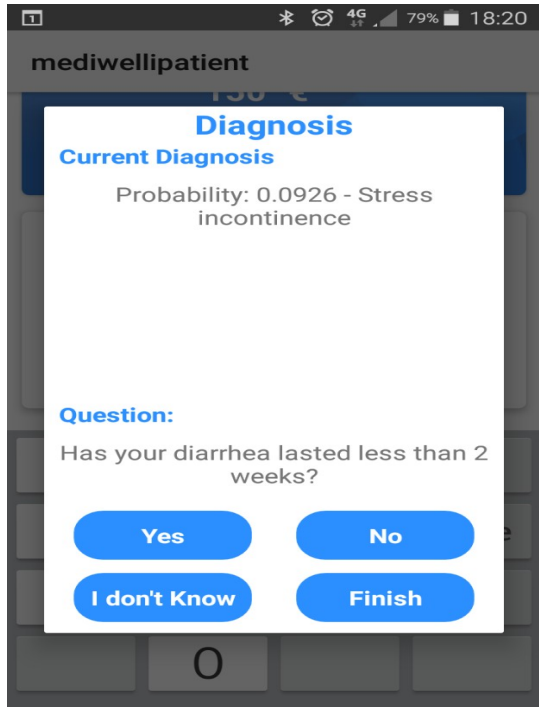
- s_153 URINARY INCONTINENCE
- s_8 DIARRHEA
- s_329 CONSTIPATION
- s_305 VOMIT
- s_309 ABDOMINAL BLOATING

 **Breast**
This is Photoshop's version

 **Psychological**
This is Photoshop's version

How it Works

Record and Analyse Symptoms:



Αρτηριακή Πίεση (mmHg)

190

99

Κορεσμός οξυγόνου (%)

90

Γλυκόζη (mmol/l)

120

Βάρος (Kg)

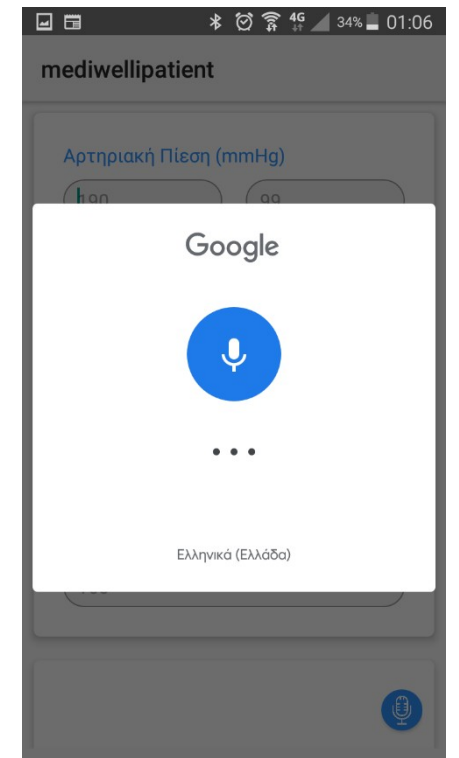
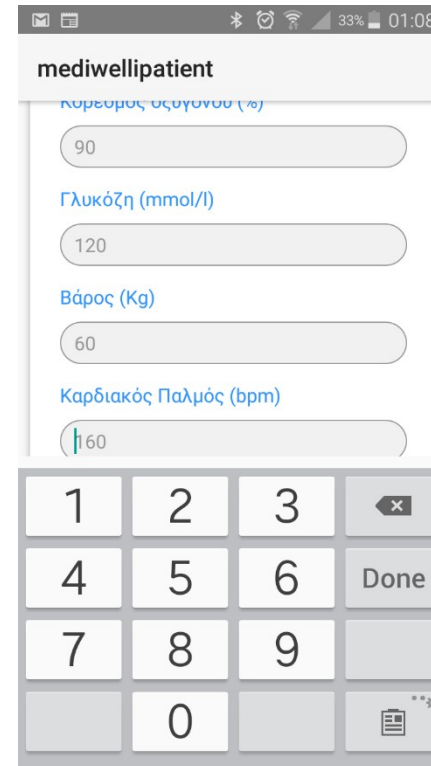
60

Καρδιακός Παλμός (bpm)

160

How it Works

Record your Vital signs:



Vitals



Fill in additional infos about your health.

ADD VITALS

Take photo/Take notes



no breakfast I'm not in a good mood

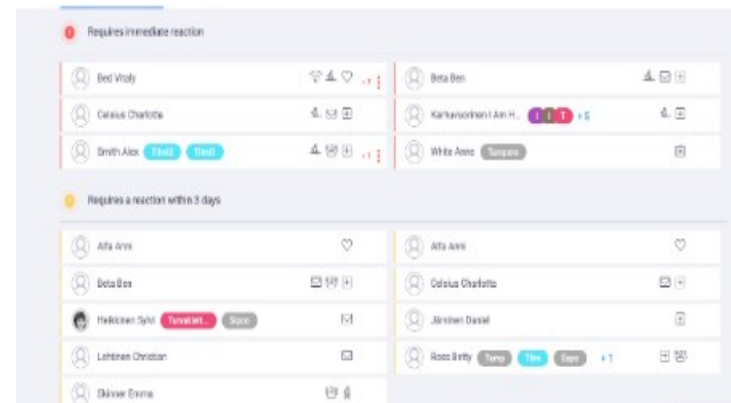


SENT DATA

How it Works

Analyse free notes:

The toolkit is using cloud AI algorithms for textual analysis to understand the mental status of the patients



Vitals



Fill in additional infos about your health.

ADD VITALS

Take photo/Take notes

Share your data



Messages



WhatsApp



Android Beam



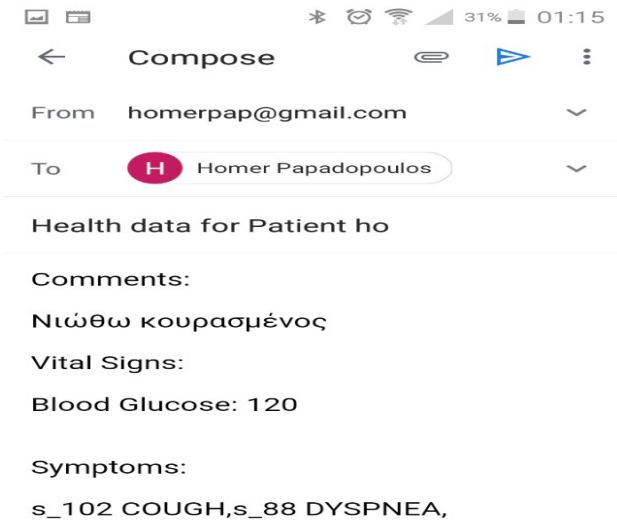
Bluetooth



How it Works

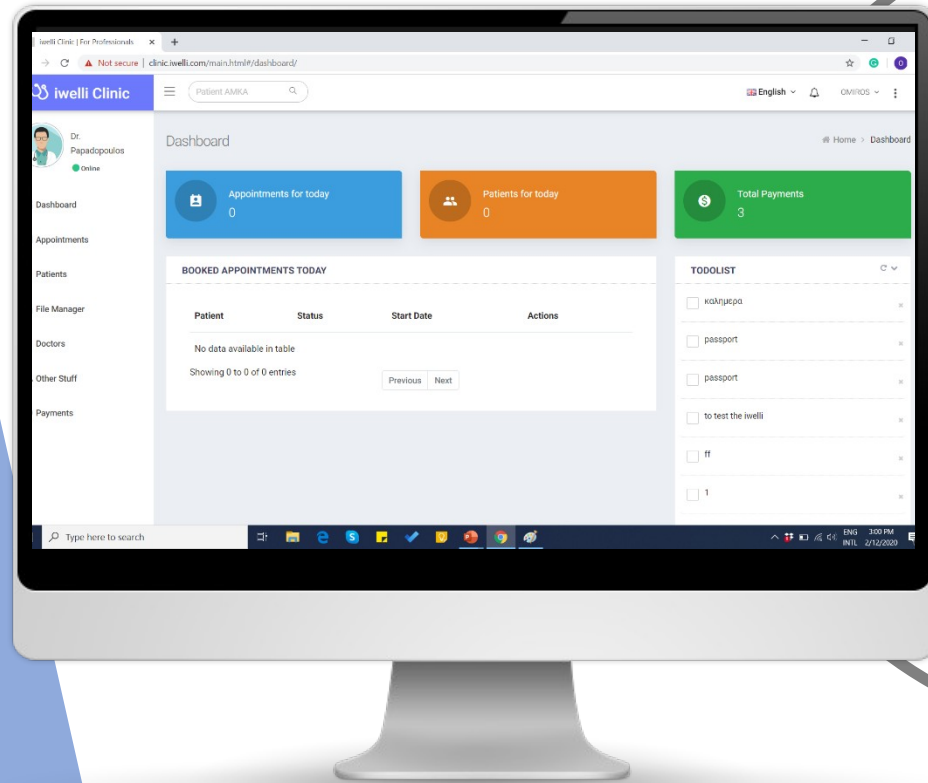
Sharing Your Results

Easily choose your doctor and share your results. Data send with patients location information



An Intelligent Electronic Health Record

Clinic.iwelli.com



**An intelligent EHR
with calculators
and scores**

Include Home generated data

The EHR can include the patient generated data in home.

Interoperable cloud based

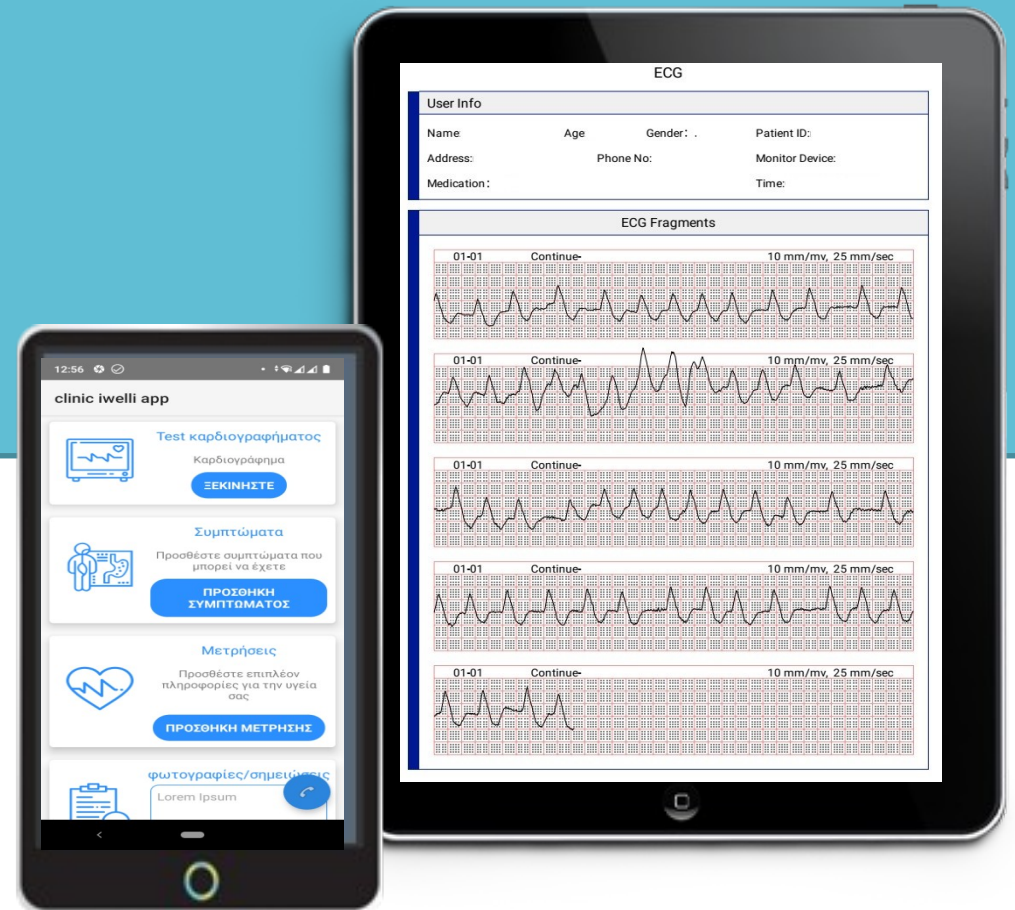
The EHR is an Fhir compatible record

Security and Privacy

The EHR is a GDPR compliant record



Example



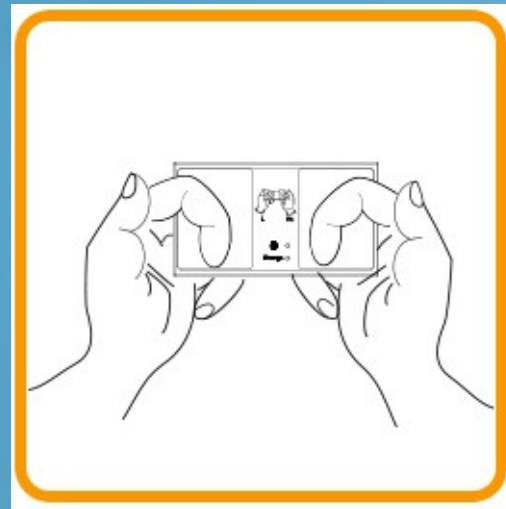
Ασθενής με HF-rEF, non sustain VT σε Holter ρυθμού 48ώρου και PVCs > 10000/24h

Τιτλοποίηση αγωγής καρδιακής ανεπάρκειας με μέγιστες δόσεις σε:

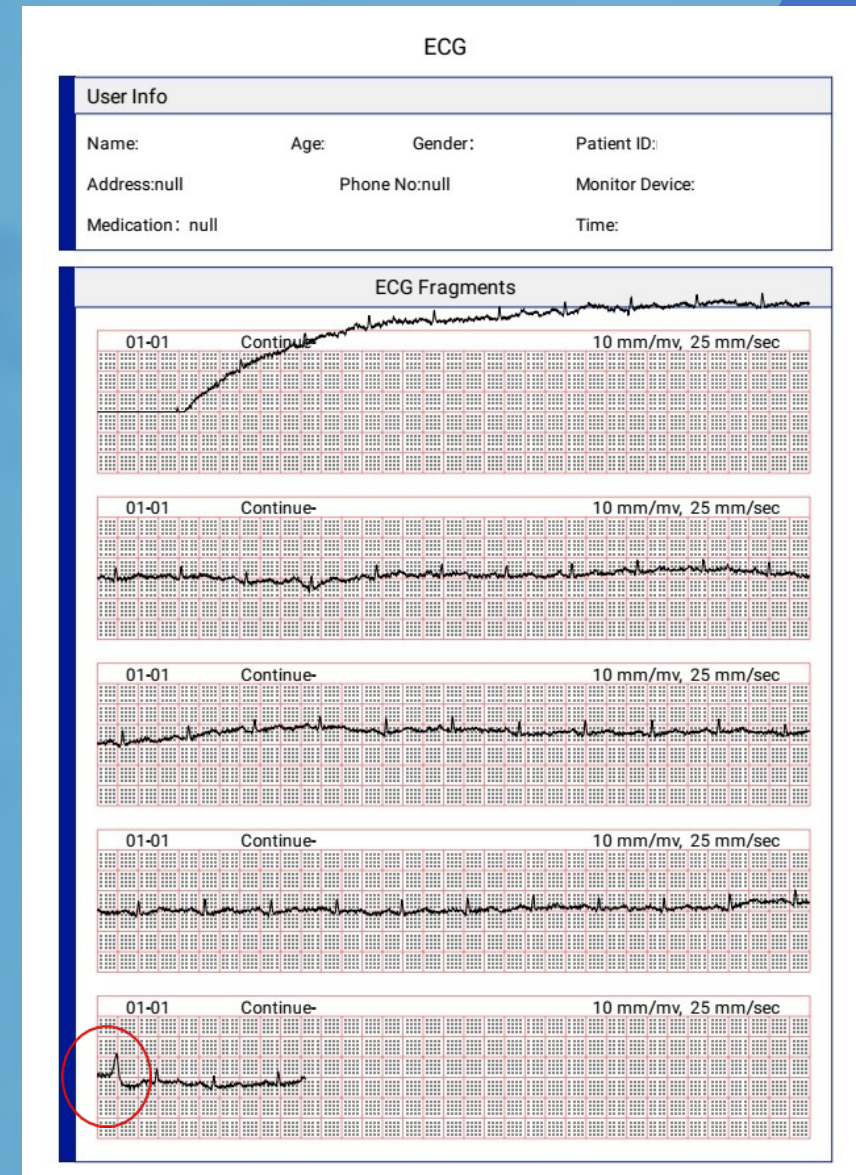
- B blocker
- MRA
- ARNI

3 μήνες μετά σε νέο Holter ρυθμού → PVCs ~ 500/24h

6 μήνες μετά σε σταθερή κατάσταση και χωρίς συμπτωματολογία



Φλεβοκομβικός ρυθμός και 1 έκτακτη κοιλιακή συστολή σε ΗΚΓ 30 sec



How to

anats

προϊόντα υγείας

now

Εμπορικά πακέτα CardioNow by iWelli

Σενάριο A

Ο Ιατρός αγοράζει τις συσκευές CardioNow για χρήση στους ασθενείς του.

(Πελάτης: Ιατρός)

Κάθε ασθενής που παίρνει τη συσκευή από τον Ιατρό του για διάστημα 30 ημερών θα χρεώνεται ανάλογα την υπηρεσία που θα θελήσει ο Ιατρός να ενταχθεί.

(Πελάτης: Ιδιώτης)

Από την μηνιαία συνδρομή του ασθενή κάθε Ιατρός θα έχει% επί την μηνιαία συνδρομής και τυχόν έξτρα χρεώσεων.

DOCTORS (all prices are VAT excluded)

- Device purchase Value: 150€
- Patient Basic Membership: 10€/month/Patient – No Doctor's interference
- Patient Premium Plan: 20€/month, 2 €/EKG more that 5 times
- Patient Ischemia Plan: 40€/month, 5 €/EKG more that 5 times

Memberships

PATIENT

1. Basic Membership includes:

- recording EKGs anytime and anywhere
- receiving instant EKG Analysis,
- detecting whether you are in normal heart rhythm or AFib,
- allowing emailing and printing of an unlimited number of EKG recordings
- entering your blood pressure for tracking
- entering your weight for tracking, and
- Storing all your EKG recordings locally on your device.

2. Premium Plan includes these additional features:

- Up to 5 EKG recordings sent to doctor for evaluation.
- unlimited cloud storage of your EKG recordings for access from any device
- entry of medications for tracking
- customized reports of your EKGs and other tracked information mailed to your home for sharing with your healthcare professionals and

2. Ischemia Plan

- Up to 5 EKG recordings 6 lead sent to doctor for evaluation.
- unlimited cloud storage of your EKG recordings for access from any device
- entry of medications for tracking
- customized reports of your EKGs and other tracked information mailed to your home for sharing with your healthcare professionals

anats

προϊόντα υγείας

now

Εμπορικά πακέτα CardioNow by iWelli

Σενάριο B

Ο Ιατρός πληρώνει συνδρομή ανά κάθε συσκευή CardioNow για χρήση στους ασθενείς του.

(Πελάτης: Ιατρός)

Κάθε ασθενής που παίρνει τη συσκευή από τον Ιατρό του για διάστημα 30 ημερών θα χρεώνεται ανάλογα την υπηρεσία που θα θελήσει ο Ιατρός να ενταχθεί.

Ο κάθε Ιατρός χρεώνει την αξία που επιθυμεί σε κάθε πελάτη του.

DOCTORS (all prices are VAT excluded)

- Device leasing Value: 30€ / month
- Patient Basic Membership: 0€/month/Patient – No Doctor's interference
- Patient Premium Plan: 10€/month, 2 €/EKG more that 5 times
- Patient Ischemia Plan: 20€/month, 5 €/EKG more that 5 times

Memberships

PATIENT

1. Basic Membership includes:

- recording EKGs anytime and anywhere
- receiving instant EKG Analysis,
- detecting whether you are in normal heart rhythm or AFib,
- allowing emailing and printing of an unlimited number of EKG recordings
- entering your blood pressure for tracking
- entering your weight for tracking, and
- Storing all your EKG recordings locally on your device.

3. Premium Plan includes these additional features:

- Up to 5 EKG recordings sent to doctor for evaluation.
- unlimited cloud storage of your EKG recordings for access from any device
- entry of medications for tracking
- customized reports of your EKGs and other tracked information mailed to your home for sharing with your healthcare professionals and

4. Ischemia Plan

- Up to 5 EKG recordings 6 lead sent to doctor for evaluation.
- unlimited cloud storage of your EKG recordings for access from any device
- entry of medications for tracking
- customized reports of your EKGs and other tracked information mailed to your home for sharing with your healthcare professionals

Our core Team

The core Team is supported by Researchers from NCSR Demokritos, software Engineers and Medical professionals



Dr Homer Papadopoulos.
Project Manager
- AI implementations

Homer
The Project Manager



Mr Pasxalis Anatsis
www.anats.gr
support the business and sustainability activities

Pasxalis the Business



Dr Christos Maniotis The CareMedic
- Cardiovascular and endocrinology medical center

Christos the Doctor



MSc. Antonis Korakis
Senior Software Engineer

Antonis
Master of Software



Eng. Vassilis Pitsilis -Technical Manager - Platform administrator.

Bill
The Administrator



MsC Panagiotis Zervakis-Bio-informatician, Big data sets and machine learning in R

Panagiotis
The Biologist



Phd Michalis Kyriakidis-Machine Learning and modelling

Michalis
The Analyst

JR8224

100



Find us at:



Coming Soon:



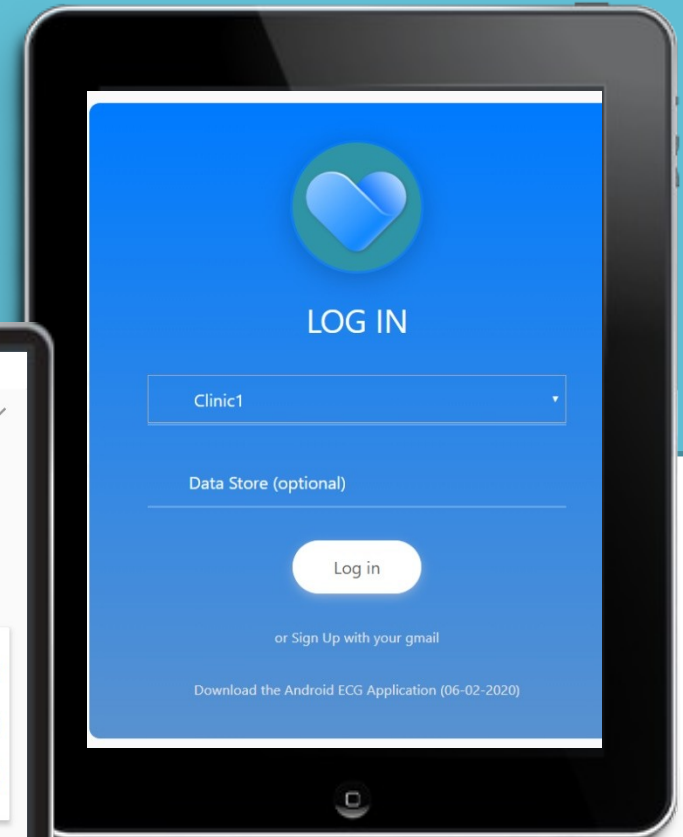
Twitter/iwelli
@iwelli



facebook/iwelli



linkedin/iwelli



<http://clinic.iwelli.com>



<https://www.iwelli.com/welcome/#/products/gr>

