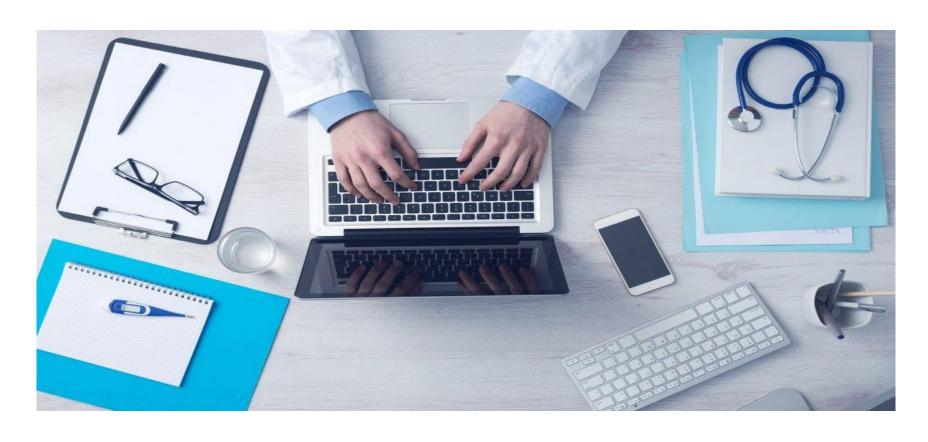


## An Israeli Data Ecosystem





#### **ISRAELI DIGITAL HEALTH ECOSYSTEM IN 2018**



537
innovative Digital
Health companies



Over 25
years of digitalized accumulated EMR



Market players:
4 HMOs,
servicing the entire
~9M population



~100
active investors in the sector with an Israeli presence



Multinationals:

32

with exposure to Digital Health



Hubs, including hospitals & HMOs innovation platforms:

23 Digital Health hubs, including 11 accelerators



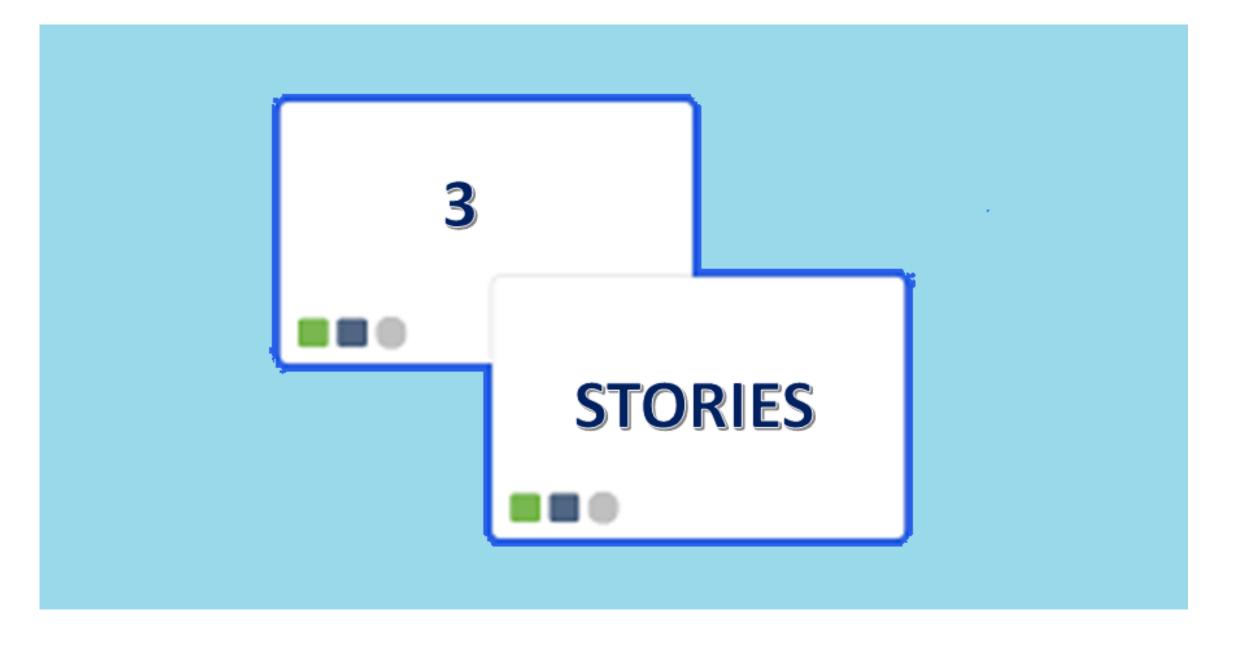
Incubators:

industry focused



**Government:** 

~\$300M National
Digital Health Plan supports
industry development



#### Assuta and Maccabi – Partners in CONNECARE



#### **CONNECARE**

an H2020 project on digitally supported integrated care with a joint consortium of 9 partners from 5 European countries







## Collaboration for digitally enabled Integrated Care











# DIGITAL MATURITY

- Macsabi Healthcare Services
- © indexentations of control for a control f

- Central Electronic Medical Record Every transaction computerized
- E Laboratory
- E Prescription
- E Consultation
- E visits
- Decision support Alerts and Reminders
- Registries
- Patient portal access to information, interaction with doctors, alerts, reminders, appointments



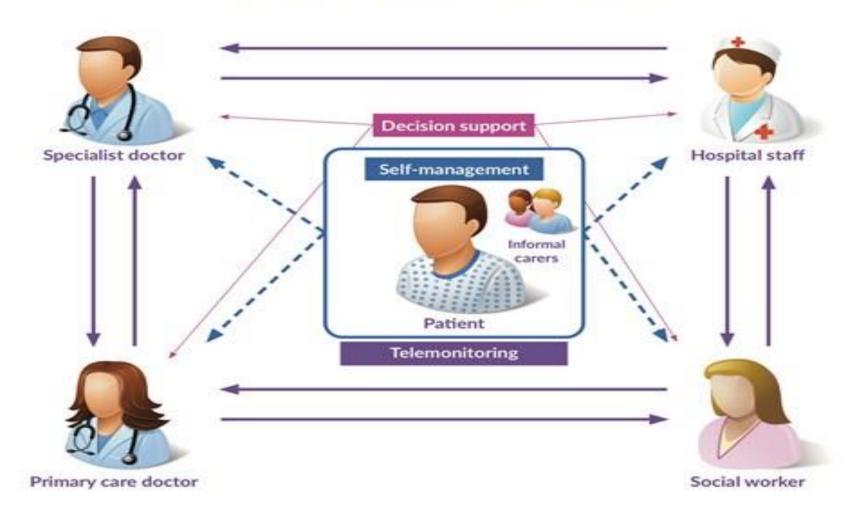






#### THE CONNECARE INTEGRATED CARE MODEL

#### SMART ADAPTIVE CASE MANAGEMENT







#### THREE MAJOR IT COMPONENTS







The patient's SMS application on a cell phone or tablet

Fitbit for measuring steps, pulse and sleep quality



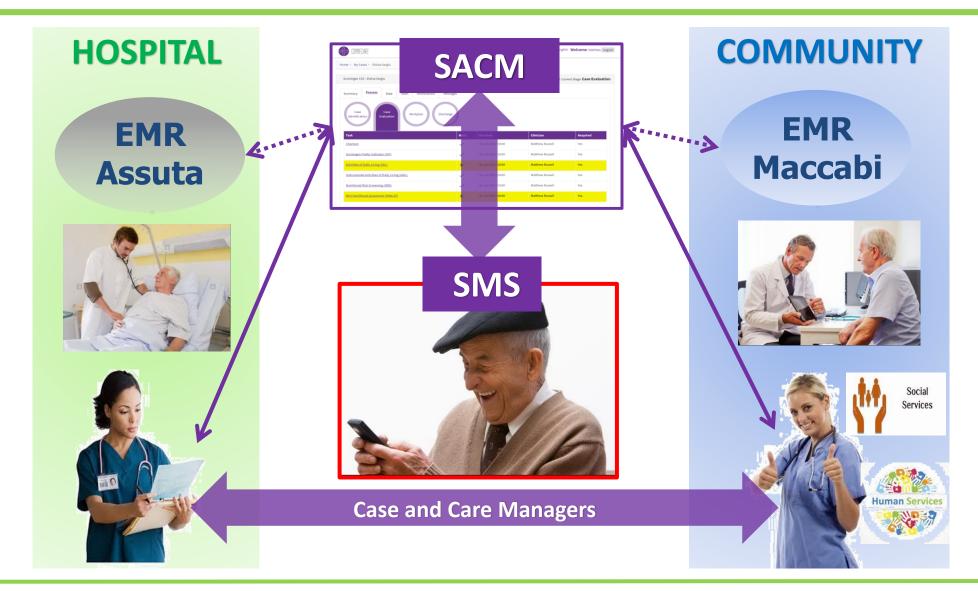
The SACM system

in which the nurse, the physician or the physiotherapist will observe the data, and prescribe the tasks for the patient





#### THE INTEGRATED CARE MODEL IN ISRAEL



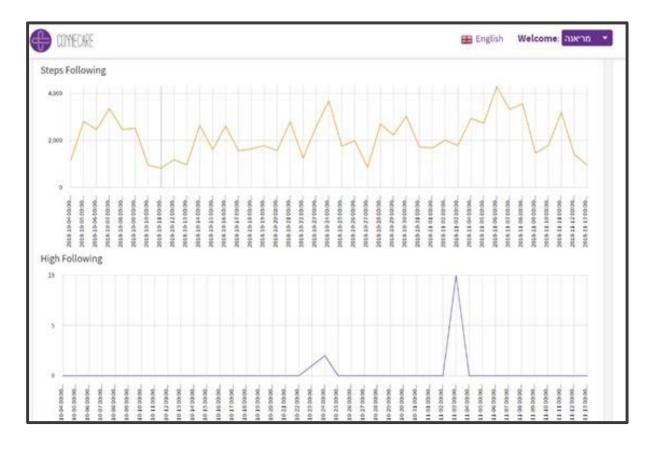




## Patient App transmitting steps











## HAST MADE NO. CO MEASUREMENTS Vigorous activity Blood pressure 120/81 mmHg filood pressure (systolic and diastolic) ഒ

### **Blood Pressure Trends**







#### INTEGRATION IN PRACTICE

#### **HOSPITAL**

- Pre-Habilitation program
- Responding to the patient's questions and needs prior to elective surgery
- Building treatment and discharge plans integrated with the community

#### **COMMUNITY**

- Patient's discharge summary
- Input from the GP to the patient's treatment plan during the project
- CM-GP communication in case of need (by email or phone)

- Patients
  Improving patients involvement and empowerment
- Continuing integrated care of a CM nurse for 3 months
- Facilitating timely appointments, reducing bureucracy

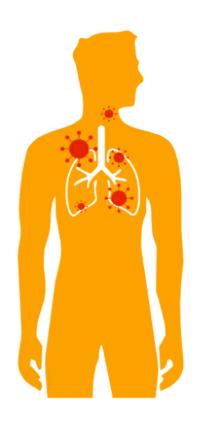




### COVID-19 Dashboard

## קורונה COVID-19







**Reports** 



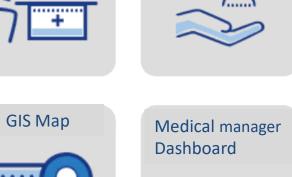




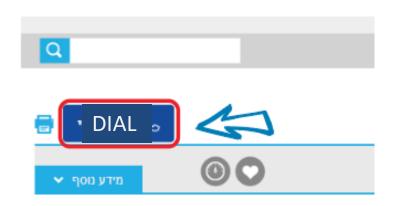


Corona Pandemic

Dashboard









לצורך השלמת הזמנת התור יש לאשר את הפרטים הבאים: ביקור טלפוני ביום ג' 31/03/20 בשעה 17:40 ד"ר ינאי עמית, מומחה ברפואת המשפחה

> הרופא יצור איתך קשר למספר/י הטלפון: • 050 ס50

## Telephone visits

Telephone Visits for Family Physicians and Pediatricians

- New type of visit in the doctor's schedule
- Possibility to dial directly from the EMR

#### **Additional Solutions**

- The patient sees the option of a telephone visit when he is making an appointment
- Management of the telephone visits in QFLOW
- Patient can update his telephone number in the process of making the appointment
- The doctor automatically dials the updated phone number when he clicks on the "hidden dial" button
- The patient sees he is receiving a call from the doctor but the phone number is hidden



#### 19/03/2020 התורים שלי להיום צור ביקור וידאו יזום מטופל שעת ביקור שיחת וידאו חיוג מחסוי סטטוס שיחה ישראל ישראלי **(C**) 08:00 & 🖧 בן 55 123456789 ישראל ישראלי (P) 08:30 Š בן 55 123456789 ישראל ישראלי **&** (00) 09:00 ď בן 55 123456789 ישראל ישראלי ď 09:30 בן 55 123456789 ישראל ישראלי (6) (00) 10:00 בן 55 123456789 ישראל ישראלי (6) 10:30

## Maccabi "Hybrid"

- New Infrastructure for video visits between doctors and patients
- The solution enables the doctor to initiate a video call and to change a telephone visit to a video visit



### Monitoring and Caring for COVID Patients at Home

- Regional Telemedicine Centers
- Patients are contacted daily
- Patients have an app Proms and biomeasures
- App transmits to the Telemedicine Center monitoring system
- Care managers monitor and respond
- Saturation levels and fever automatically entered into the Family doctor's EMR



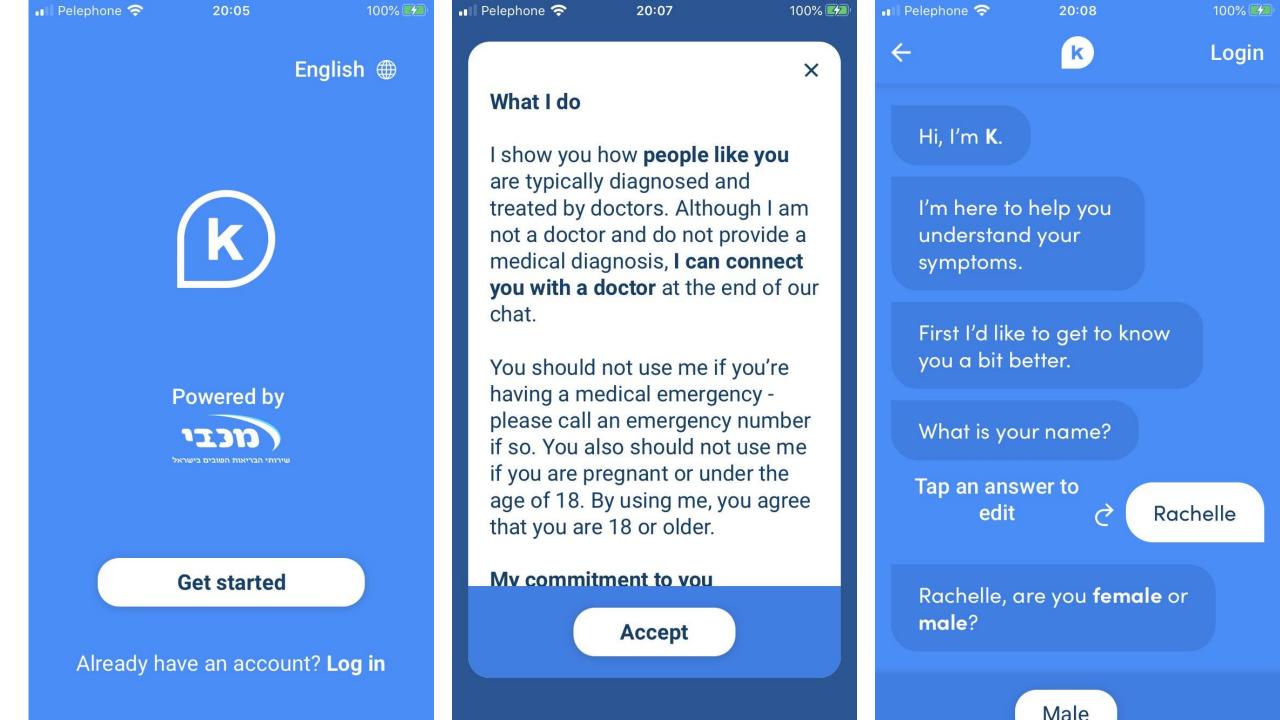


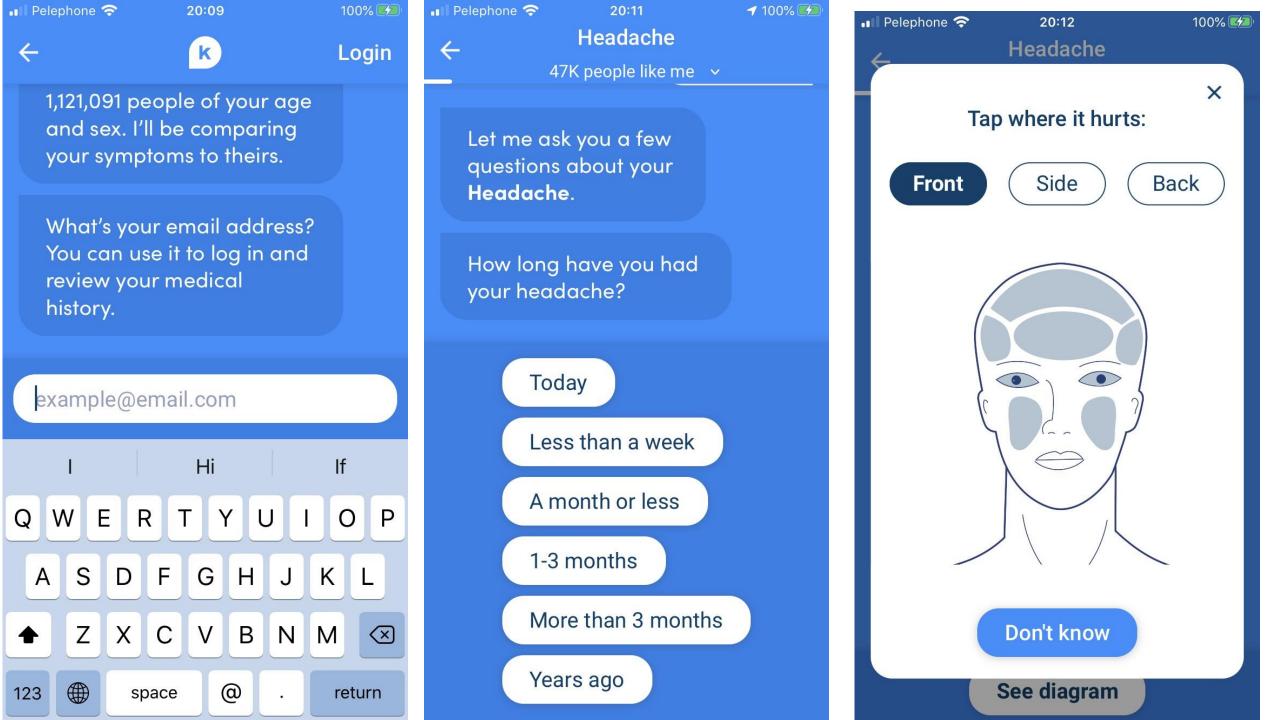
## Meet K – the game-changing new application that replaces health search engines.

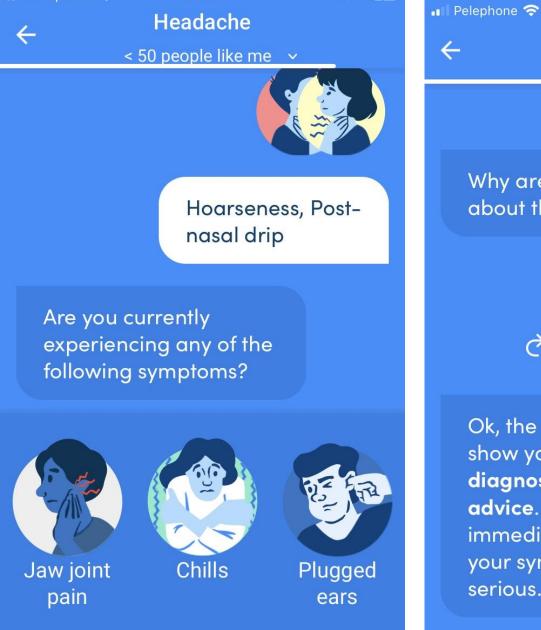
- The latest innovation by the MK&M (Morris Kahn & Maccabi) Big Data Science
  Institute. Cutting through a massive amount of data, collected during hundreds of
  millions of doctor visits over the last 25 years, it offers users a personalized and
  highly reliable reading of what their symptoms might be saying..
- Based on a sophisticated algorithm developed by a wide team of mathematicians and physicians that has been fed information from millions upon millions of doctors visits, and as a smart system, it is learning and improving itself all the time.
- With each additional use, it perfects its knowledge and further refines the questions to be presented to the next user.



Google Plav







None of the above







#### **Concerning symptoms**

People like you seek medical care in person if:

- They develop shortness of breath or difficulty breathing
- They develop chest pain or chest pressure
- They begin to cough up blood
- They develop a fever over 100.4 F

#### Symptoms you reported

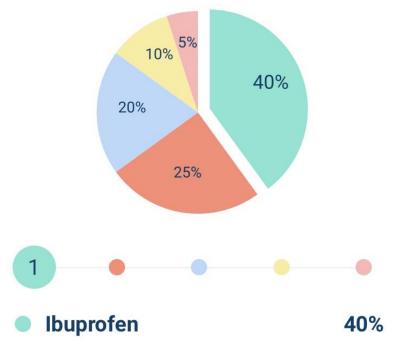
Keep an eye on your symptoms, which are common with Upper Respiratory Infection.



Cough



Of the **80**% of women who were **prescribed medicine**, here's what they took:



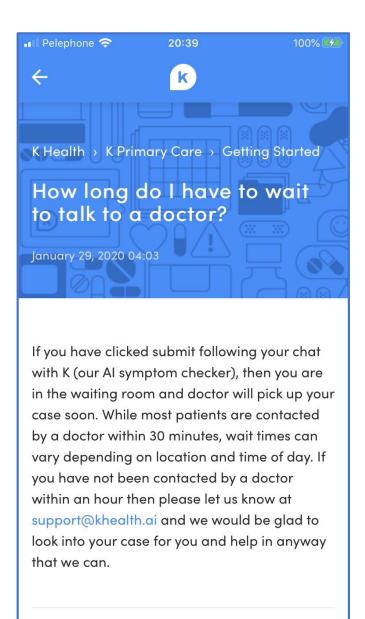
Brand Names: Advil, Adex, Nurofen Category: NSAIDs

Relieves pain and reduces fevers by stopping the synthesis of chemicals in

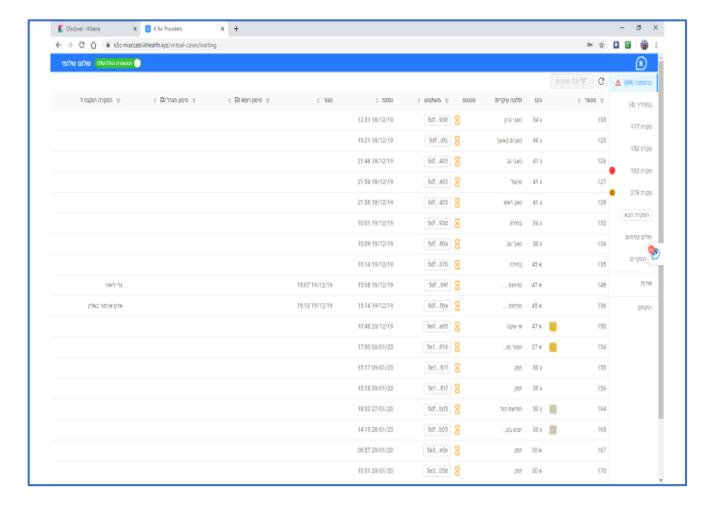


Chatting with a Doctor is available from 11am to 11pm ET, 7 days a week, in select states. Hours and availability may change, but the most up to date hours will always be presented in the app when you choose to share your report with a doctor.

Please note that cases that are submitted within 30 minutes of 11pm may not be addressed until the following morning depending on patient volumes.

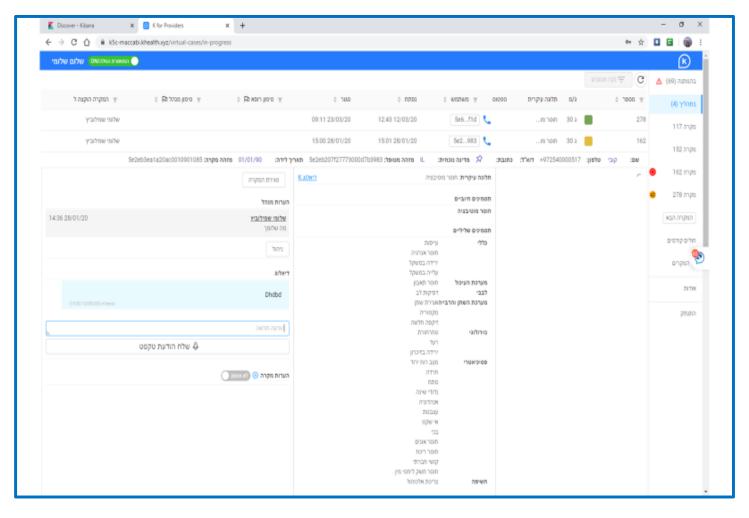


## The doctor sees all of the patients who have requested a chat in the "K" Portal





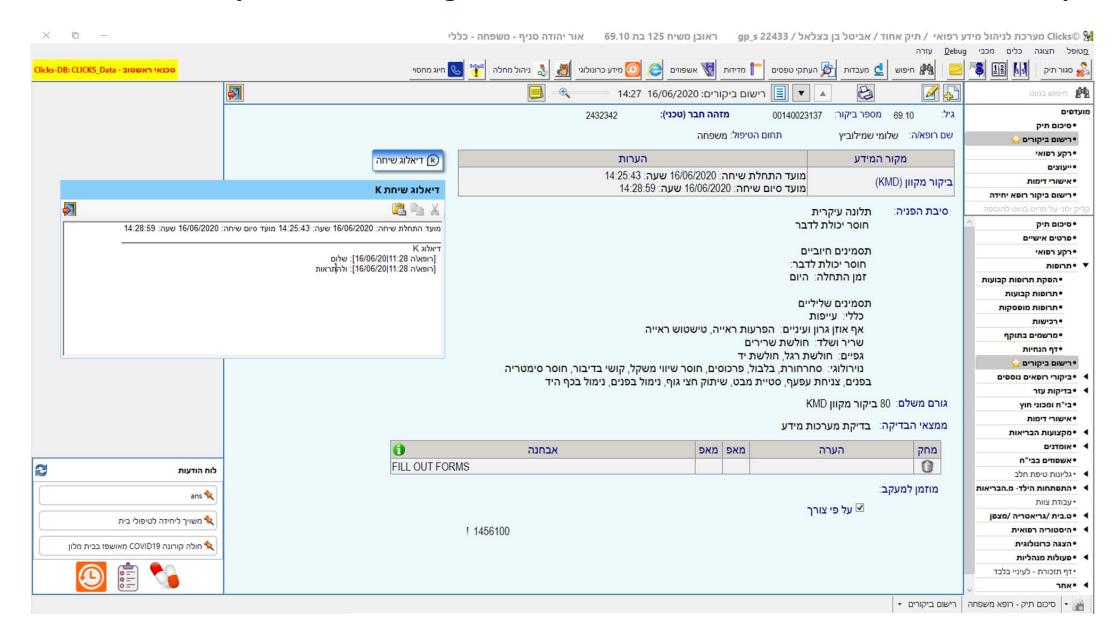
# The doctor sees all of the problems and symptoms that the patient has chosen using the "K" app and initates the chat with the patient



Chat with Dr. Harrari Hello How Are you? I am Dr.. Harrari I understand that you are suffering from a headache 0



## All of the information from the K portal is automatically transmitted to the Maccabi EMR for the patient including the doctor's decision for treatment/follow-up



### Some Observations

- We are progressing toward digitally enabled integrated care
- Technology is not really a barrier
- Organizational culture and processes, clinical staff attitudes and values, interorganizational relationships, interpersonal relationships
- Crisis such as COVID- is a great accelerator
  - Telemedicine has flourished
  - The barrier between the EMR and Patient reported data is changing
- Will these changes continue and be sustainable post-COVID?

## THANK YOU

