



La revolució de la **salut digital**:
el rol de **Barcelona Health Hub**
i el cas concret de Mediktor

mediktor
ARTIFICIAL INTELLIGENCE TRIAGE



Healthcare is on the way to the perfect storm

Lack of Health Professionals

Raising Healthcare demand

- Aging population
- Increase of Chronic Patients
- Increase of Healthcare expectations
- Growing population

Healthcare cost growing over GDP



Digital Health is solving many healthcare changes



Sustainable



Scalable



Inclusive

The
**Patient
Journey**
28th October 2021



A large iceberg floats in a deep blue ocean under a bright blue sky with scattered white clouds. The iceberg's tip is above the water line, while its massive, jagged base is submerged. The water surface is slightly rippled. The sky is a vibrant blue, and the clouds are soft and white. The overall scene is serene yet carries a sense of hidden danger or potential, as suggested by the metaphorical text.

Today

Future

We are heading a Healthcare transformation

Today



Sick care



Reactive



Episodic



Physical



One Size Fits All



Provider-centric



Human cognition

Future



Health care



Proactive



Continuous



Virtual



Personalized



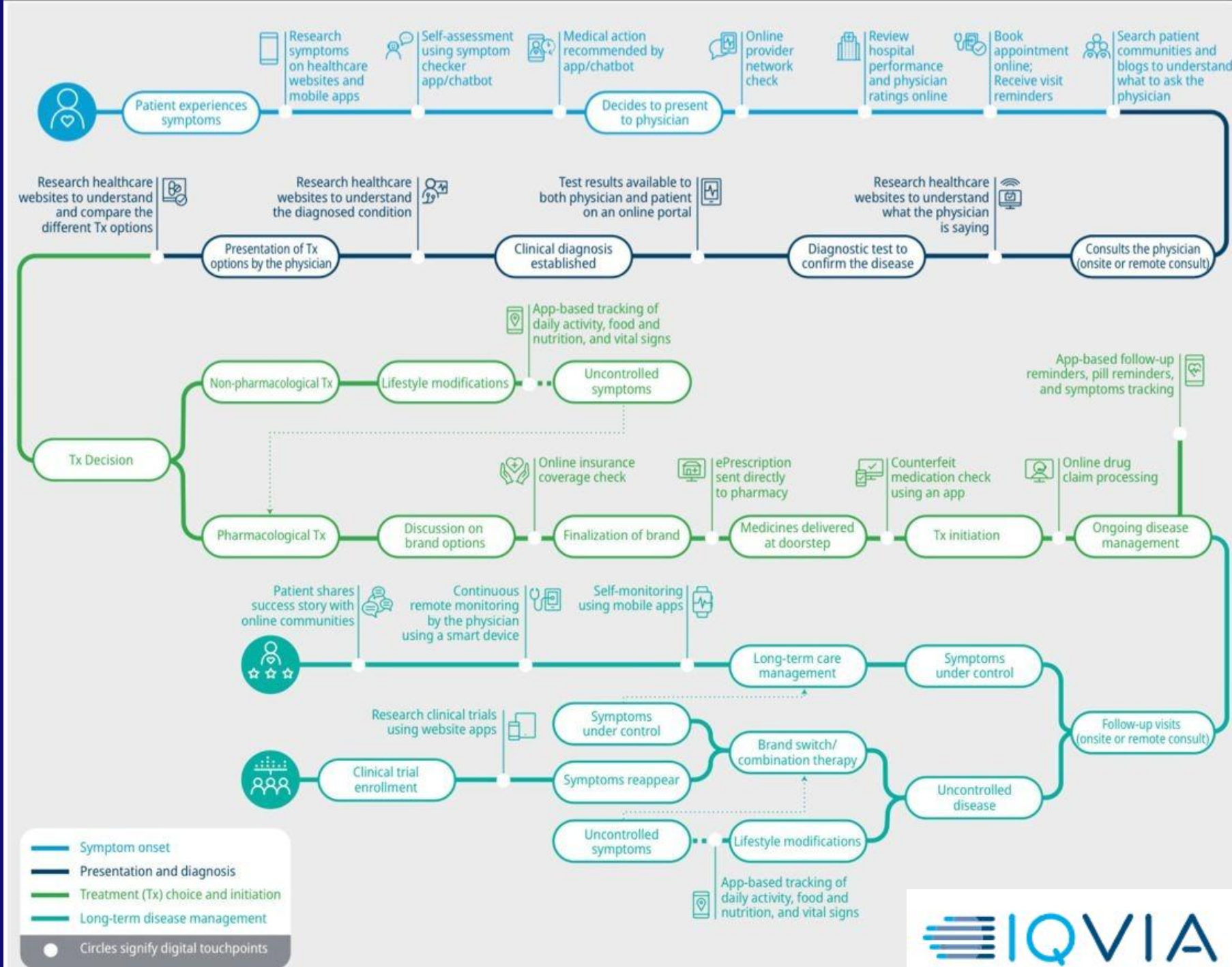
Patient-centric



AI Enhanced

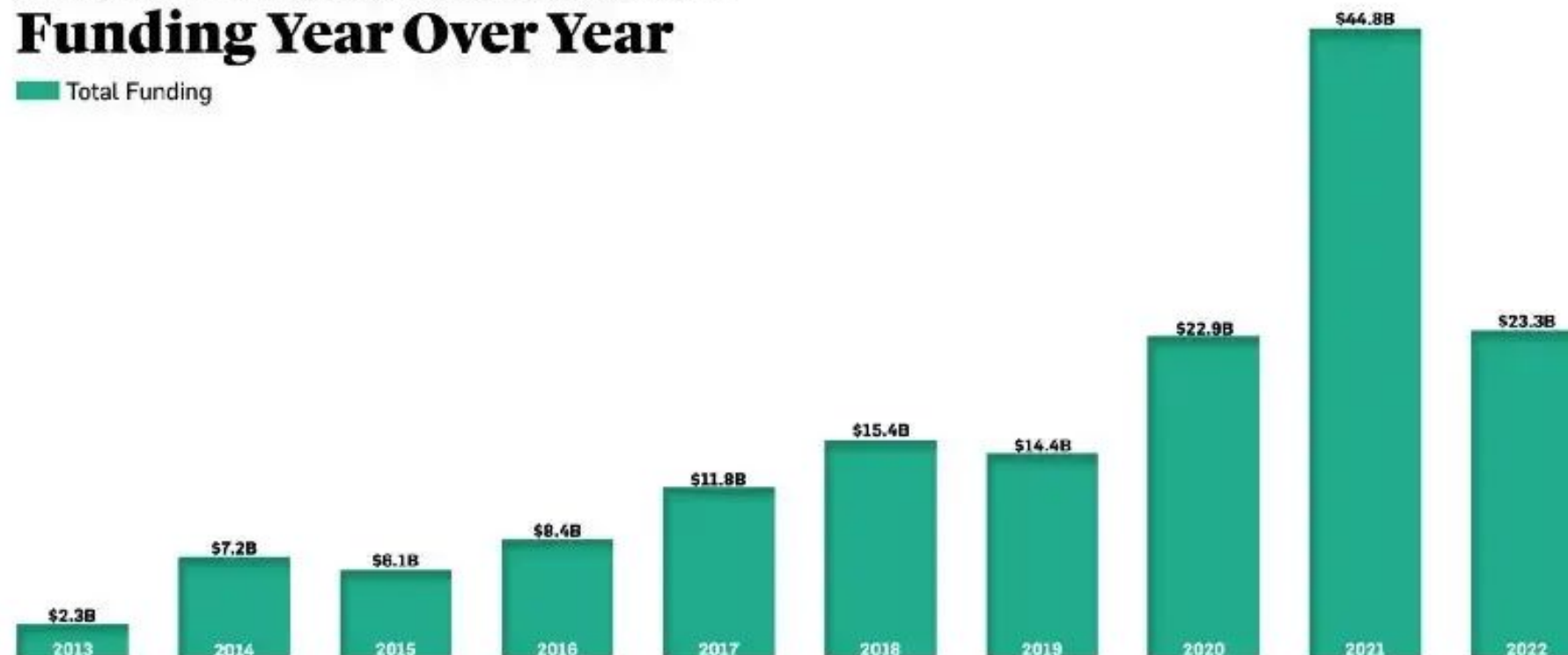
**We need to empower Healthcare professionals
to deal with a growing demand of care**

Digital Health has 22 Digital Touchpoints in care delivery



Global Health Innovation Funding Year Over Year

Total Funding



Source: StartUp Health Insights | startuphealth@com/insights. Note: Report based on publicly available data through 12/31/22, covering total venture, corporate venture, and private equity funding only. Companies listed in StartUp Health Insights may fall under multiple categories and therefore will be represented throughout the report.

According to our StartUp Health data, total deal count is down only 15% year over year, compared with the nearly 50% drop in funding.

Fintech is no longer drawing in the most seed funding



The amount of seed-stage funding brought in by industry in June 2022



Source: [Dealroom](https://dealroom.com) • The 10 industries with the highest amount of funding secured are shown.
<https://sifted.eu/articles/seed-rounds-june-investment/>

Healthcare Seed funding is strong in Europe

Top Health Innovation Hubs

by 2022 Total Deal Count

United States

City/Metro Area	Amount Closed	Deal Count
San Francisco	\$6.1B	154
NYC	\$3.1B	125
Boston	\$2.3B	64
Los Angeles	\$784M	44
Seattle	\$469M	19
Chicago	\$477M	18
San Diego	\$282M	16
Miami	\$256M	16
Austin	\$491M	16
Washington DC	\$587M	13

Outside the United States

City/Metro Area	Amount Closed	Deal Count
London	\$1.1B	44
Tel Aviv	\$667M	25
Berlin	\$249M	18
Paris	\$936M	11
Singapore	\$88M	10
Toronto	\$198M	8
Bengaluru	\$213M	7
Durham	\$81M	6
Montreal	\$12M	4
Barcelona	\$144M	3

Source: StartUp Health Insights | startuphealth.com/insights. Note: Report based on publicly available data through 12/31/22, on seed (incl. accelerator), venture, corporate venture, and private equity funding only. Companies tracked in StartUp Health Insights may fall under multiple categories and therefore will be represented throughout the report.

BARCELONA HEALTH HUB'S MISSION

Promote digital health & its transfer to the sector



253

Startups

- Startups
- Scaleups
- Entrepreneurs

72

Health Institutions, Universities and Partners

- Hospitals •
- Clinical Research •
- Partners •

62

Corporates

- Pharma
- Insurance
- Health Providers

13

Investors

- Corporate Inv •
- Private Inv •
- Venture Builders •

400

OUR LOCATION

Barcelona Health Hub is based in the centre of Barcelona, at Sant Pau Art Nouveau Site which was the Hospital of Santa Creu i Sant Pau for almost 100 years.

- B** Barcelona Health Hub
- H** Hospital Sant Pau
- R** Institut de Recerca Sant Pau
- U** Universitat de Medicina (UAB)
- K** Kalida
- F** Fundació Puigvert





**Technological
Transference**



**Digital Health
Knowledge**

KEY PILARS



**Health Revolution
Congress**



**Global
Expansion**

BHH recognized as one of the top digital health organizations



 **BARCELONA
HEALTH HUB**

**RECOGNIZED AS ONE OF
THE TOP DIGITAL HEALTH
ORGANIZATIONS**



health revolution congress

Llotja de Mar - 17 de mayo 2023

What do we want to achieve?



**Barcelona Health Hub to become
the largest digital health hub
in Europe**

Supported by the BHH ecosystem



Supported by the BHH ecosystem



Supported by the BHH ecosystem



Supported by the BHH ecosystem



Supported by the BHH ecosystem

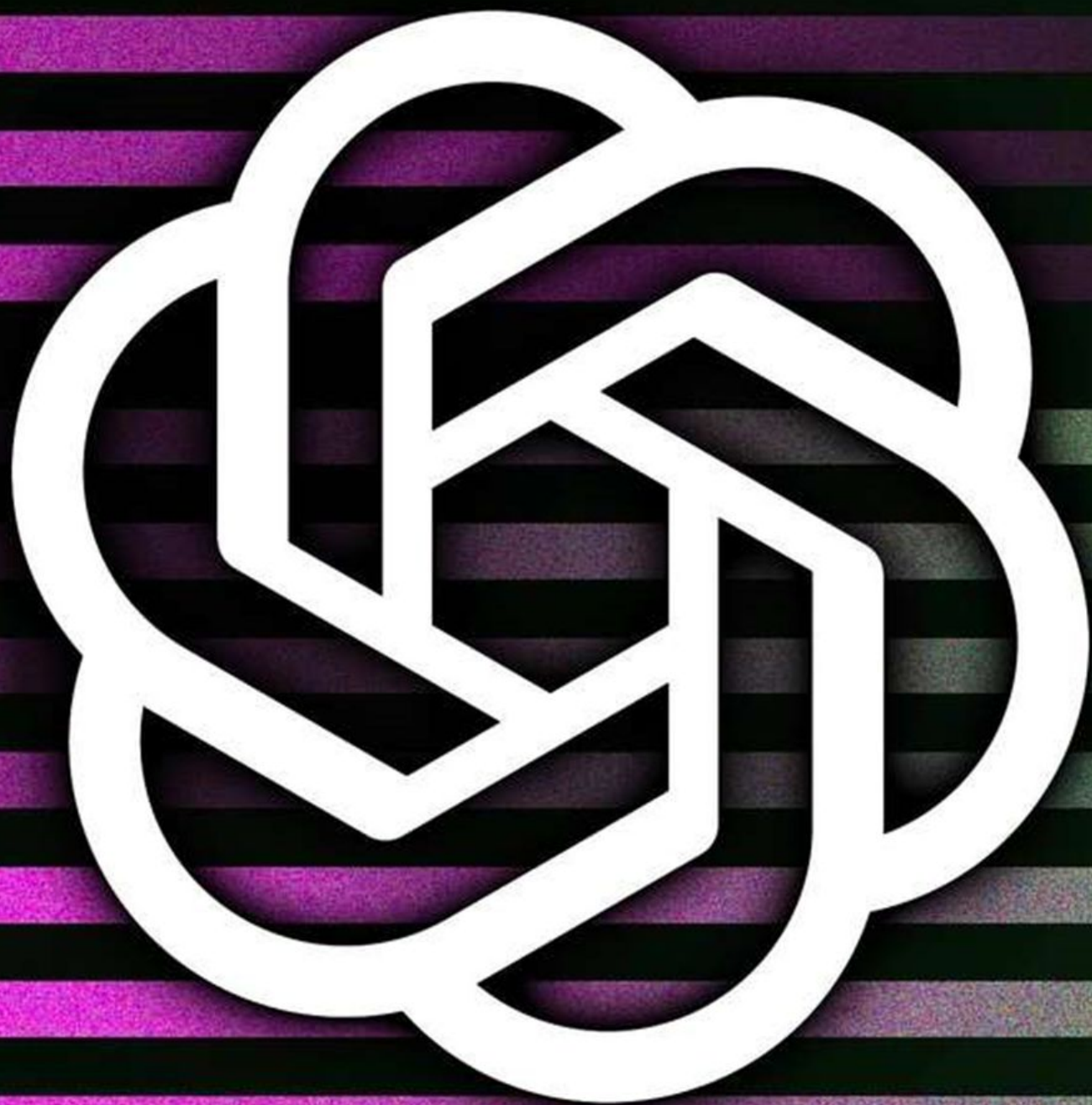


Supported by the BHH ecosystem





ACCELERATING DIGITAL TRANSFORMATION IN THE HEALTH SECTOR



mediktor

ARTIFICIAL INTELLIGENCE TRIAGE



CRISTIAN PASCUAL

CEO & Co-founder

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m. +34 630040975

NEW YORK • BARCELONA

Access to Healthcare is an Unsolved Problem Worldwide

Unassisted decision making leads to inefficiency and errors

Patients and professionals need the right health decision support



7 out of 10⁽¹⁾ patients google their symptoms and make wrong decisions



Emergency Departments are **saturated worldwide**⁽²⁾

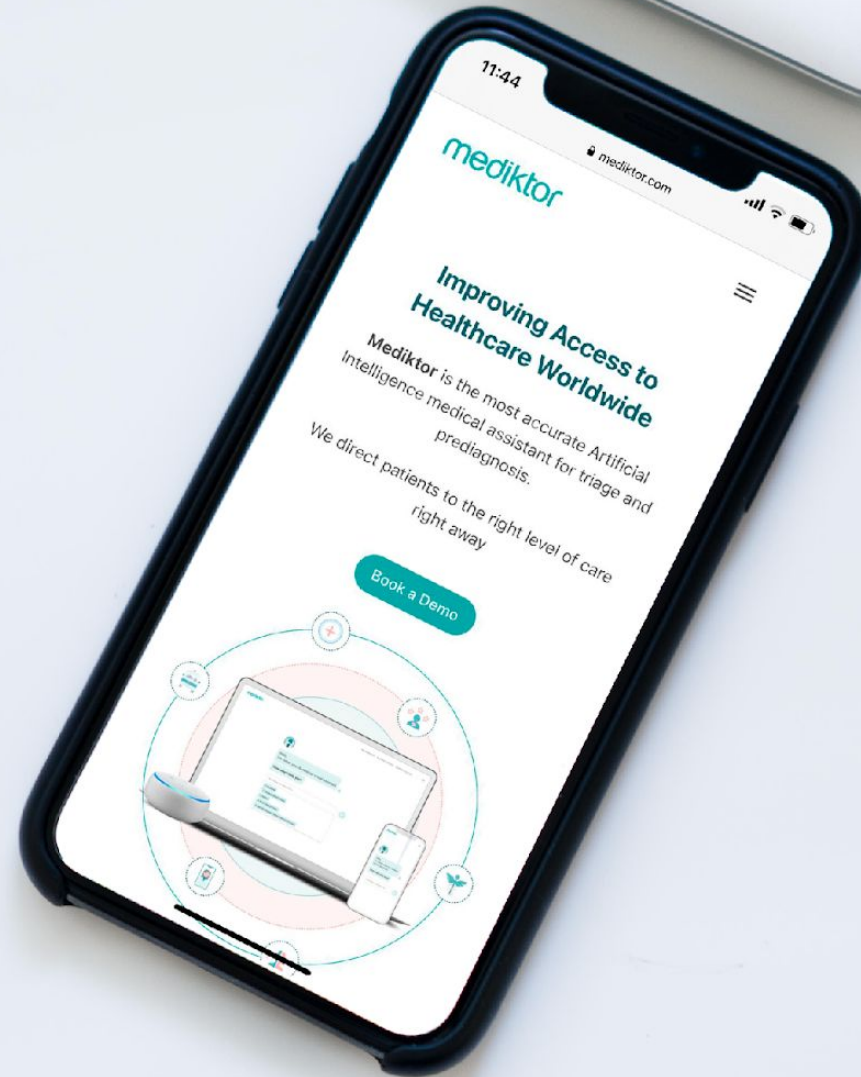


USA 145.6 million ER patients, **only 6% are triaged** and 32.4% are considered as urgent.

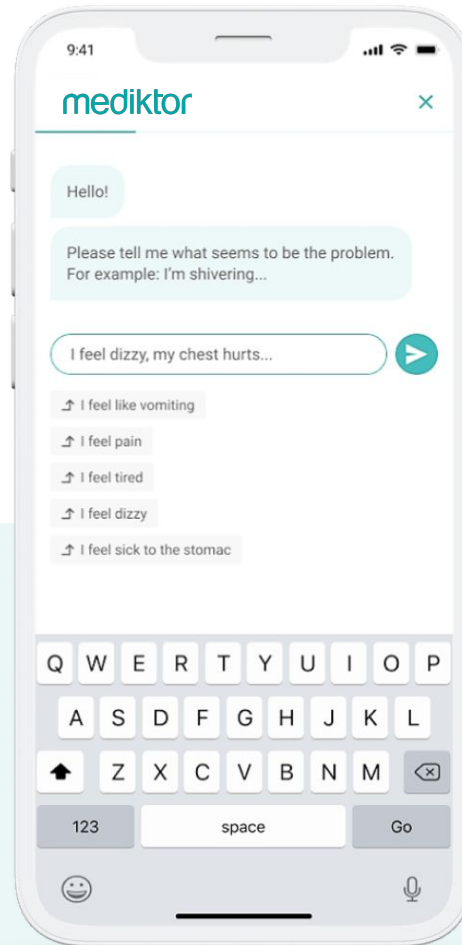
(1) Article Published in UK Medical News, Dec 6th 2017 (2) A hospital-wide strategy for fixing emergency-department overcrowding @McKinsey & Company (3) 2017 Merrit Hawkins survey (4) National Medical care survey



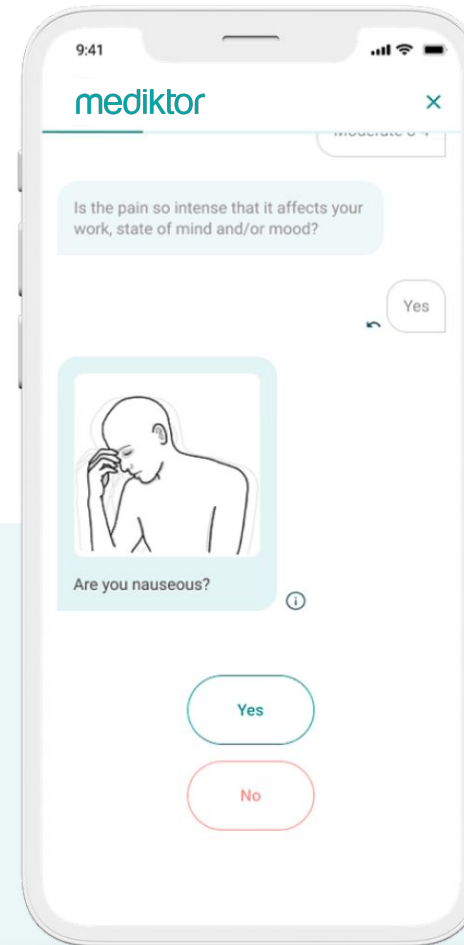
**Mediktor drives
patients to the
right level of care**



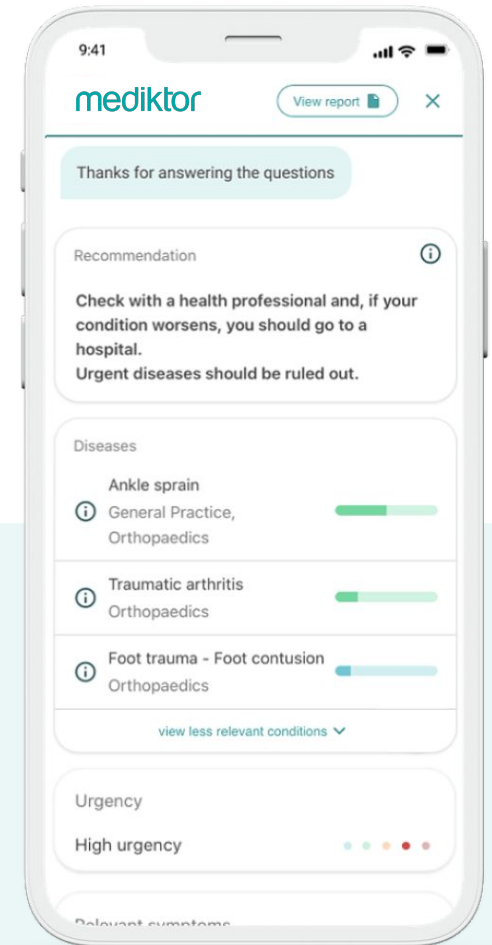
An easy human-like conversation



State all your symptoms using your own words.



Our system based on AI asks you the questions a physician would.



Get a list of possible conditions and a recommendation on what to do next.

A Very Refined Technology



**Natural Language
Recognition
capabilities**

44,597 symptoms synonyms
per language



**Machine Learning
Techniques**

Our technology learns from
every interaction and has
intuition capabilities
developed by 371 million
pathways analyzed



**Supporting 16
languages**

We speak the language of 4,6
Billion people in the world



**The AI engine chooses
the best next question
for every case**

31,123 Relations between
Questions and Diseases
21,641 Logic relations
between questions
and improving every day



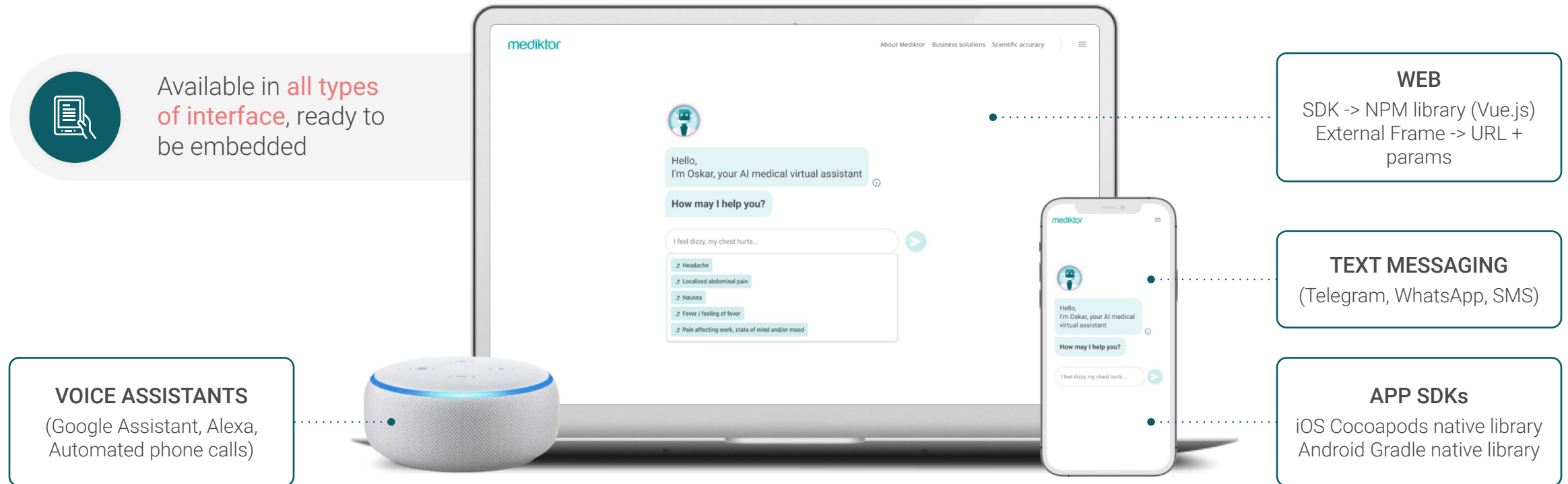
**We have a massive
medical database
relating symptoms
with diseases**

944 Diseases
8,177 Possible Questions

We own all our technology and we have built it from scratch

White-label B2B SAAS, up & running in 4 weeks

Omnichannel communication flow



Mediktor & Evidence Based Clinical Medicine



Trials carried out in the
real world with **real patients**



Led by **Independent Third-Parties**



Peer-reviewed Papers

CLÍNICA
BARCELONA
Hospital Universitari



Awarded clinical trial with +1000 real patients (*)

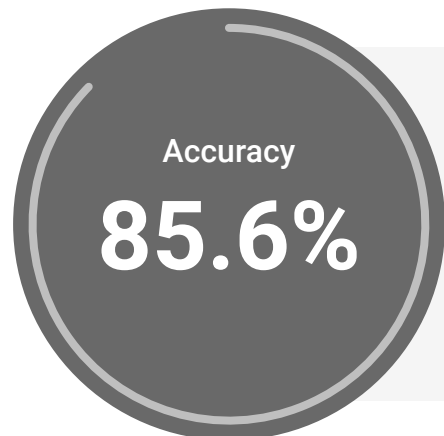
Node.Health Award

3 Clinical Trials Finished & 3 On-going to prove accuracy

(*)
http://emergencias.portalsemes.org/descargar/experiencia-de-mediktor-un-nuevo-evaluador-de-sntomas-basado-en-inteligencia-artificial-para-pacientes-atendidos-en-el-servicio-de-urgencias/force_download/

VS.

Harvard T.H. Chan
School of Public
Health Study (*)



Comparative Accuracy of Diagnosis by
Collective Intelligence of Multiple Physicians vs
Individual Physicians

(*) Michael L. Barnett, MD, MS,
Department of Health Policy and
Management, Harvard T.H. Chan
School of Public Health, March 2019
<https://jamanetwork.com/journals/jamanetworkopen/fullarticle/2726709>

Mediktor key elements



A **Reliable** technology you can **Trust**.

Proved with clinical trials with real patients, published in scientific magazines and conducted by third parties.



Professional Guidance

Our team will adapt our value proposition to your goals.



Experience

Over 10 years working with Top Health Companies in 28 countries.

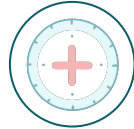
We are ready to provide value
to your health care business

Driving patients online to your care pathway



Insurance companies

Mediktor enables the reduction of provision costs, avoiding unnecessary and costly medical visits, streamlining triage, improving decision-making and decreasing wait times.



Hospitals

Mediktor allows the reduction of wait times in emergency departments, avoiding medical errors and preventing unnecessary diagnostic tests and treatments.



Pharmaceutical industry

Mediktor helps to find undiagnosed patients online and guide them to the right treatment.

At the same time provides valuable information regarding the target patients.



Telemedicine platforms

Mediktor drives patients to the right level of care and can shortlist the related medical speciality. It decreases the professional time needed to assist patients.



What our clients say



Somesh Chandra

Chief Health Officer - Axa European Markets

"Mediktor's AI-based medical assistant is available on the Digital Health Platform created by AXA in partnership with Microsoft, available in Germany, Italy, Spain and Belgium. Mediktor helps patients understand their symptoms, and improves their user experience from self-assessment to next step recommendation. Artificial intelligence technologies such as Mediktor allow us to build personalized services with high added value for our customers and our company."



Dr. Joseph M. Campistol

CEO Hospital Clinic de Barcelona

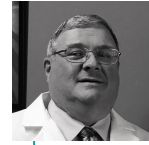
"We have already collaborated for the first clinical study of Mediktor's technology, which led to promising results and remarkable evaluation from our medical partners."



Alberto E. Porciani

President and CEO Top Doctors Europe & Latam

"Telemedicine is revolutionizing the world of Healthcare. Top Doctors users access the symptom checker developed by Mediktor and after answering a few simple questions they find expert doctor they need according to their result."



Dr. Ronald Pope

CMH's Vice President of Medical Services, Care Centers.

"Mediktor's symptoms checker is one of the main features of our Digital Doctor service: a 24h online consultation through chat, videoconference or call. 70% of the clients accessing our app choose to use the symptoms checker, which gives them an orientation on what they may have. Results are available to doctors during the consultation which leads to more efficient online visits."



Elena Torrente

Digital Health Coordinator DKV Spain (MUNICH RE GROUP)

"Mediktor's symptoms checker is one of the main features of our Digital Doctor service: a 24h online consultation through chat, videoconference or call. 70% of the clients accessing our app choose to use the symptoms checker, which gives them an orientation on what they may have. Results are available to doctors during the consultation which leads to more efficient online visits."



Pedro Diaz Yuste,

CEO SAVIA (MAPFRE)

"SAVIA is the digital health services platform of MAPFRE, the Spanish insurance leader. Thanks to Mediktor, SAVIA can offer its users medical guidance in less than 3 minutes, saving them time from the first moment they feel symptoms. And it also recommends chatting with the most appropriate specialist within the network of professionals available on the platform."

Mediktor in AXA and Microsoft Digital Healthcare Platform

Microsoft and **AXA** are partnering to create an "Easier, more affordable first-class access to Healthcare."

We are very glad to confirm that AI triage is in their vision of the future of Healthcare.



Satya Nadella, Microsoft CEO
#AITriage leading to #Telehealth as an structural change in Healthcare



Thomas Buberl, AXA CEO
There is a need of a better and more efficient triage.

DHP and Mediktor use case presentation

AXA and Mediktor Partnership public announcement



References:

<https://youtu.be/12R7DQix1UU>

<https://vimeo.com/552039573>

Mediktor's Footprint

Yale
NewHaven
Health

DKV
SEGUROS MÉDICOS

MAPFRE

EuroLife

A-R-C AUSTIN
REGIONAL
CLINIC

Munich RE

AON

INTERAMERICAN

CMH
Columbia Memorial Health

SANOFI

NOVARTIS

Bupa

Saludsa

UNIVERSAL LIFE

GuidaTE Plus

AdvanceCare
Saúde

savia

AXA

TOPDOCTORS
UNITED KINGDOM

Teladoc
HEALTH

Our Global Partners

BARCELONA
HEALTH HUB

STARTUP
+ HEALTH

aws

CLÍNICA
BARCELONA
Hospital Universitari

NODE.HEALTH

Pontificia Universidad
JAVERIANA
Bogotá

AVIA

JUNTO
HEALTH

+mtip

ALTA
LIFE SCIENCES

Clients in 28 countries & over 10 million lives covered

In a near future, no one will see a Health professional without evaluating themselves first with the use of AI



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