

A close-up photograph of a hand holding a blue smartphone. The hand is positioned in the center-right of the frame, with the thumb and index finger visible. The background is heavily blurred, showing soft bokeh of yellow and green light, suggesting an outdoor setting with sunlight. The overall mood is bright and focused on the device.

Michiel Tebbes
@meddr

Disclosure

(potentiële) belangenverstrengeling	Geen
Voor bijeenkomst mogelijk relevante relaties met bedrijven	Geen
<ul style="list-style-type: none">• Sponsoring of onderzoeksgeld• Honorarium of andere (financiële) vergoeding• Aandeelhouder• Andere relatie, namelijk ...	<ul style="list-style-type: none">• NVT• SEH-arts^{KNMG} @ DZ• NVT• NVT

Michiel Tebbes

SEH-arts | Medisch Futuroloog

<http://tebb.es/MijnPresentaties>

meddr.nl

@meddr



DE VEENIER ZIEKENHUIS



PHILIPS





 **SCANADU**

Apps





T-Mobile NL 10:48 99%

NHG Standaarden

Categorie A - Z 0 - 9

Vul hier uw zoekterm in

A Algemeen

- M29 Kinderen met koorts
- M74 Onderzoek van de pasgeborene
- M47 Voedselovergevoeligheid
- M102 Somatisch onvoldoende verklaarde lic...

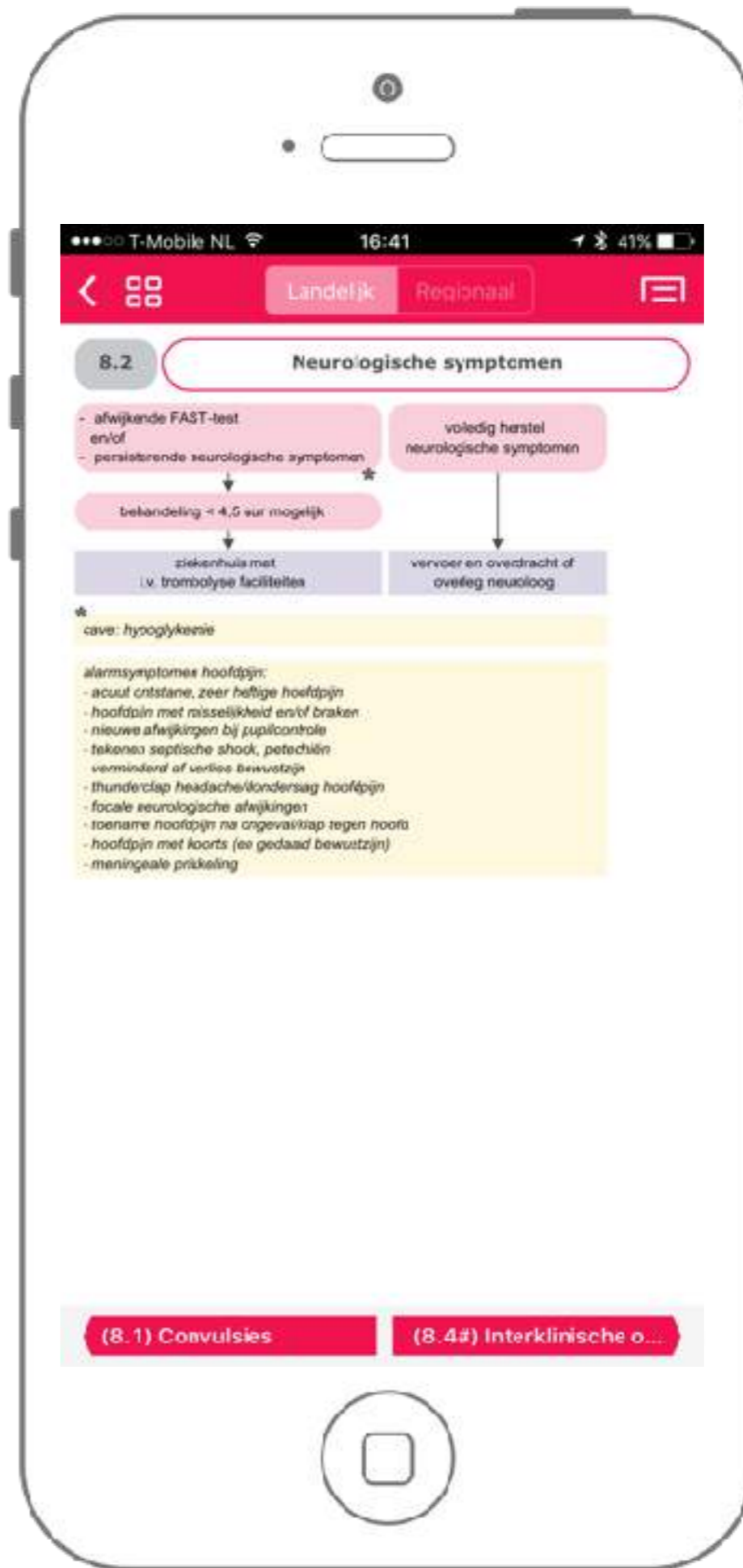
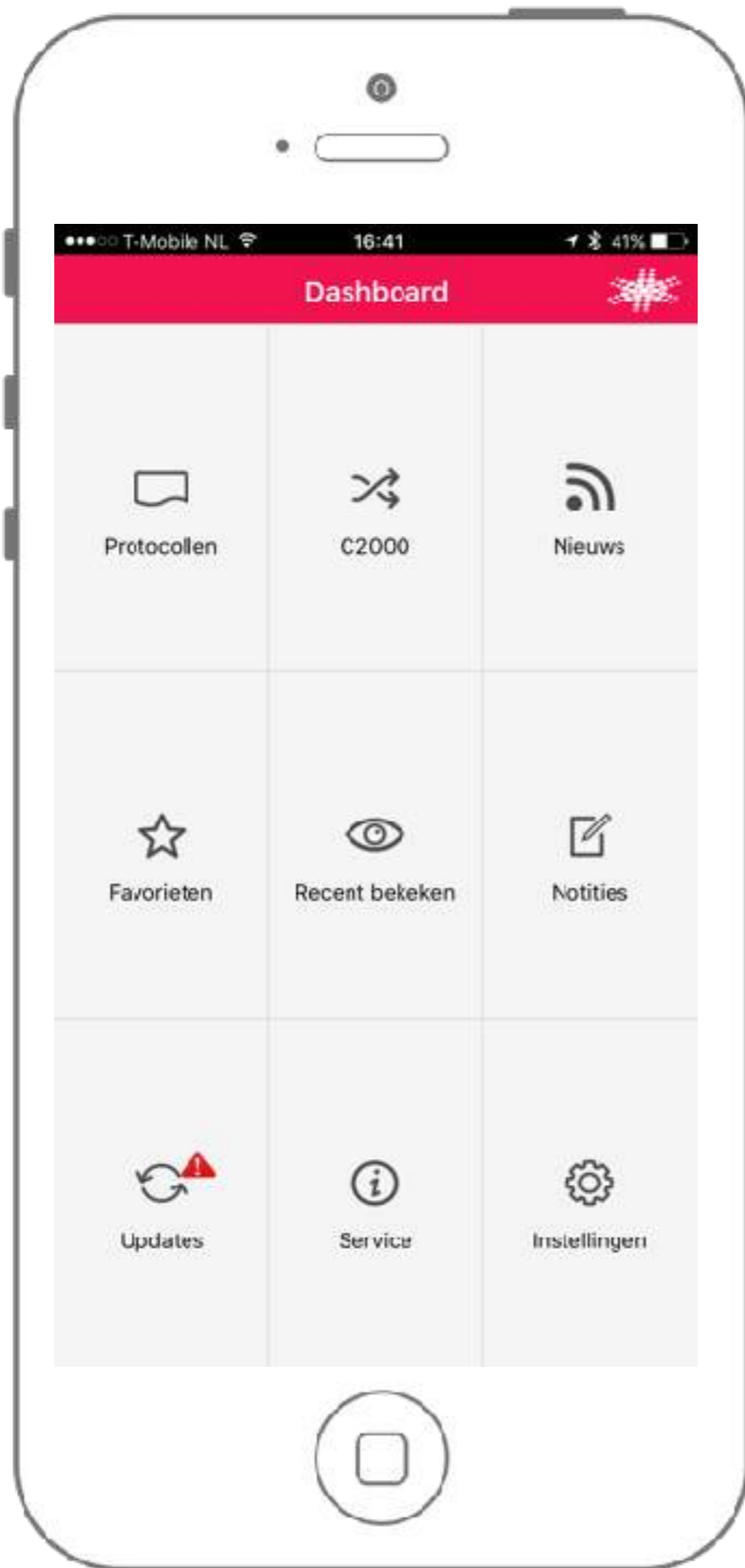
B Bloed

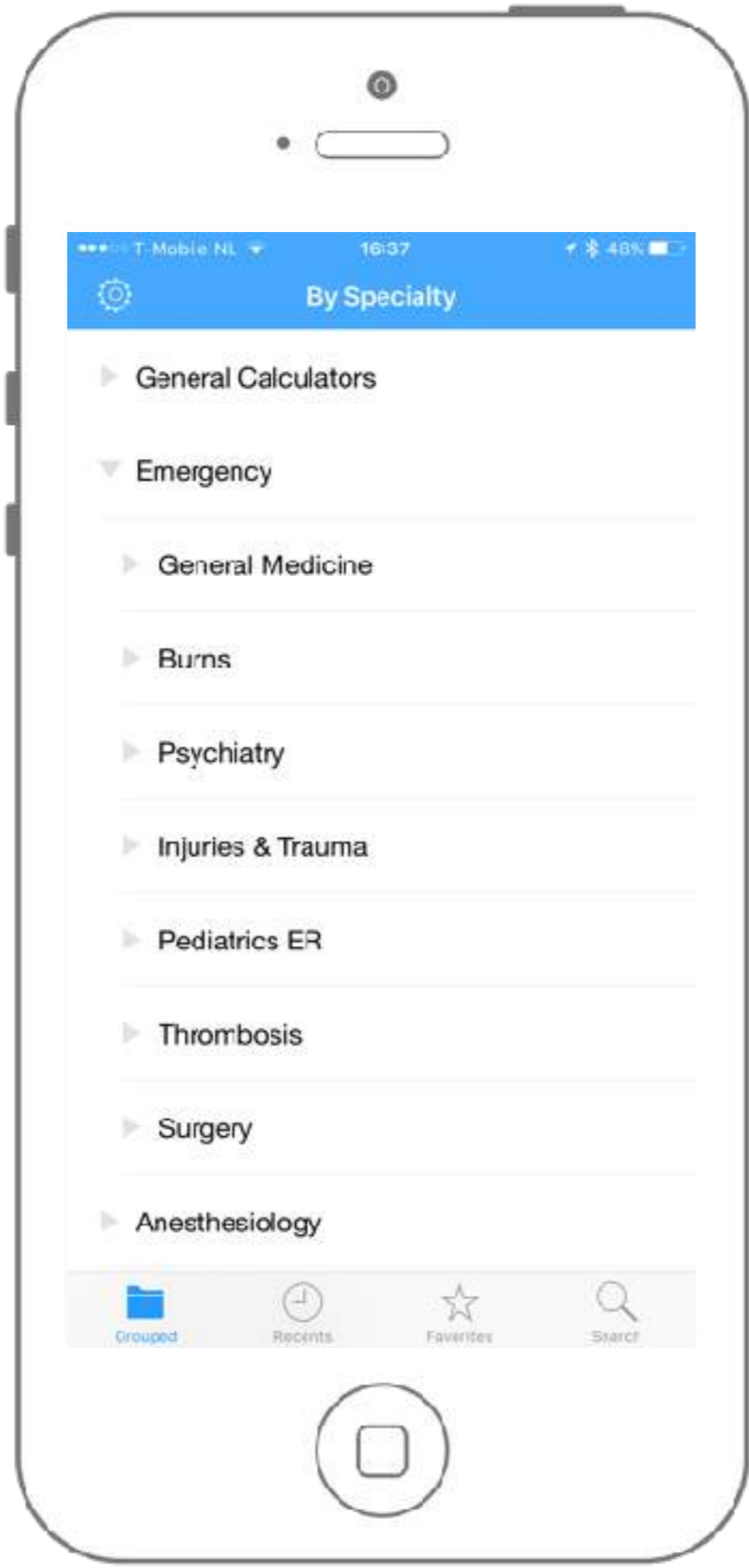
- M76 Anemie

D Spijsverteringsorganen

- M34 Acute diarree
- M100 Buikpijn bij kinderen

Standaarden Selectie Nieuws Info





T-Mobile NL 16:37 48%

 By Specialty

▶ General Calculators

▼ Emergency

▶ General Medicine

▶ Burns

▶ Psychiatry




▶ Injuries & Trauma

▶ Pediatrics ER

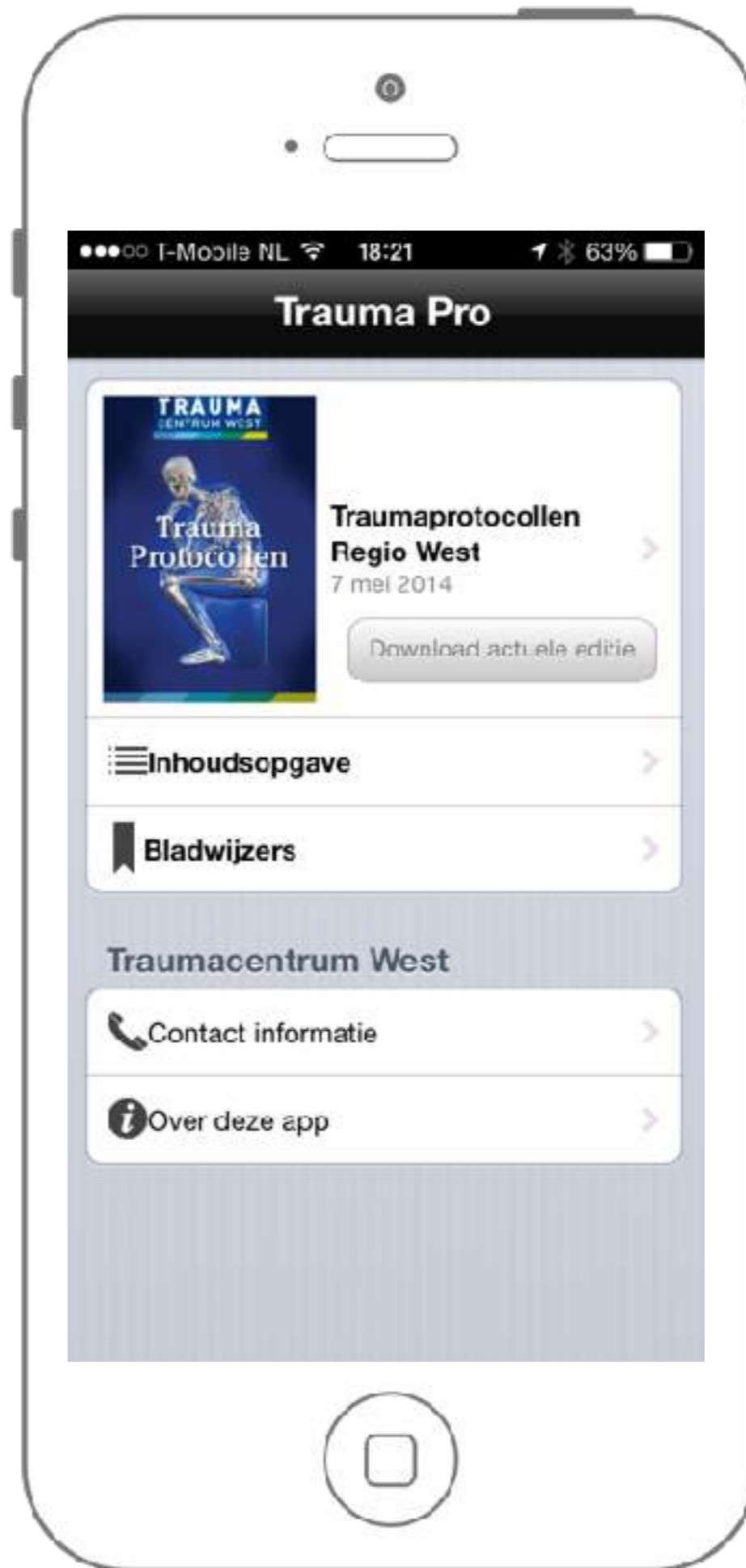
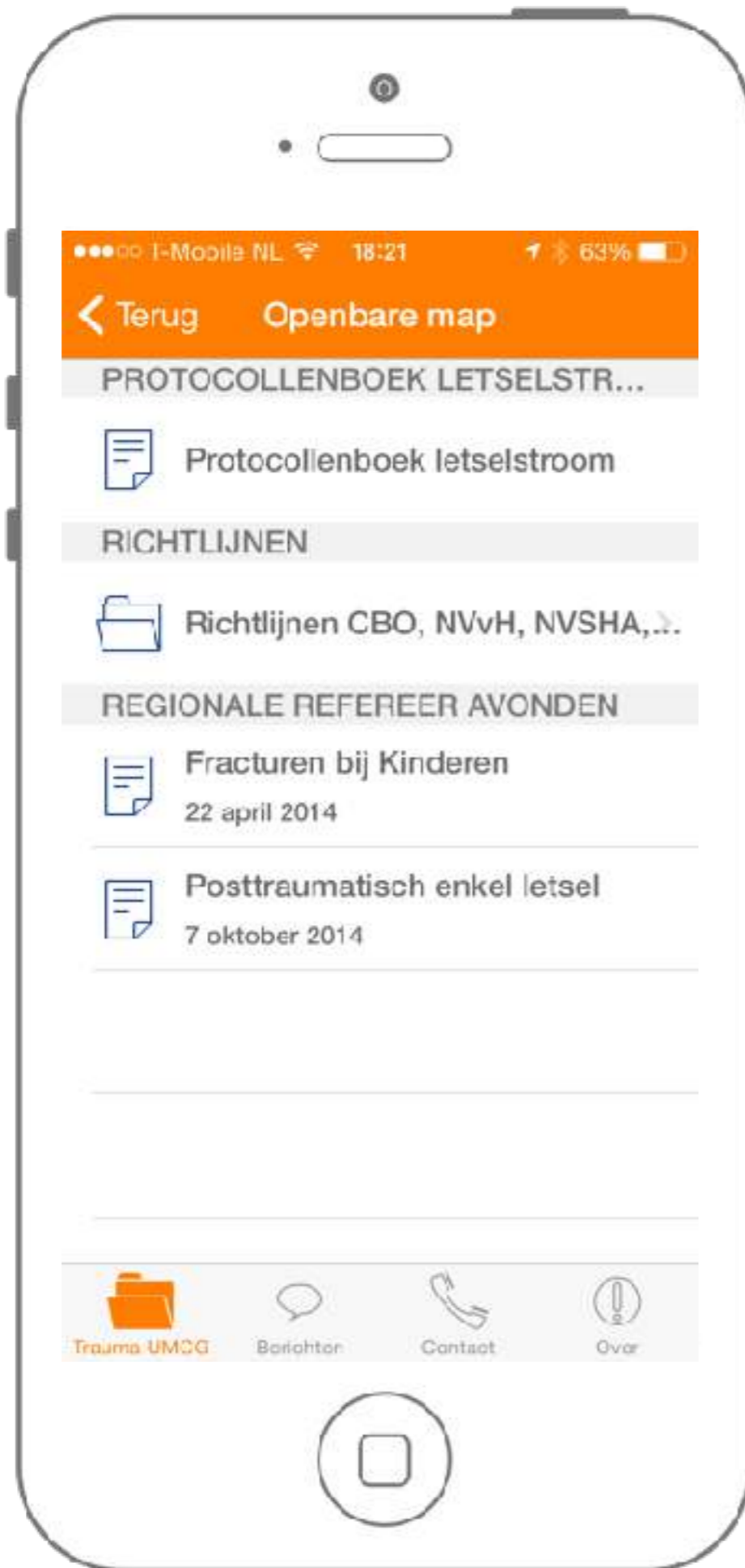
▶ Thrombosis

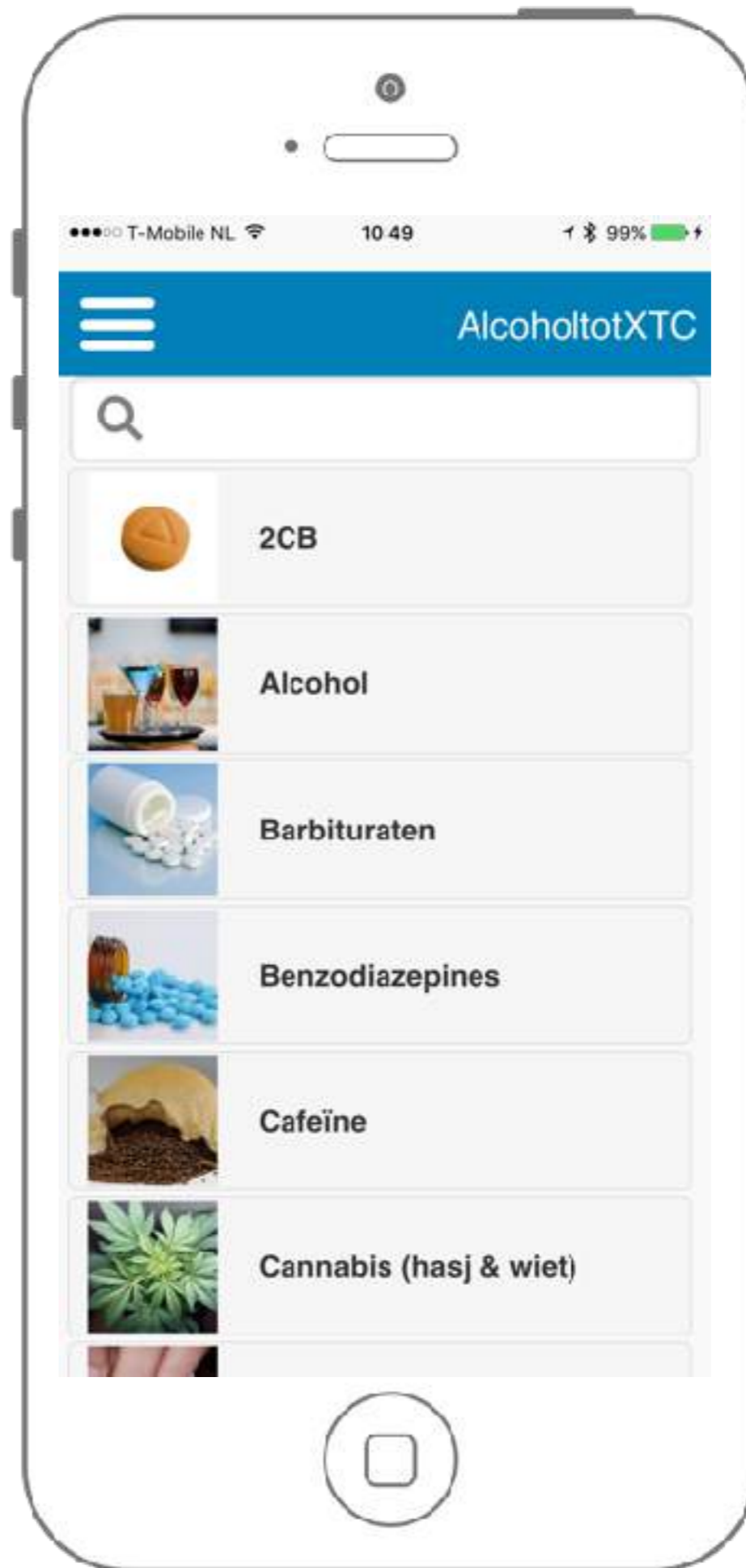
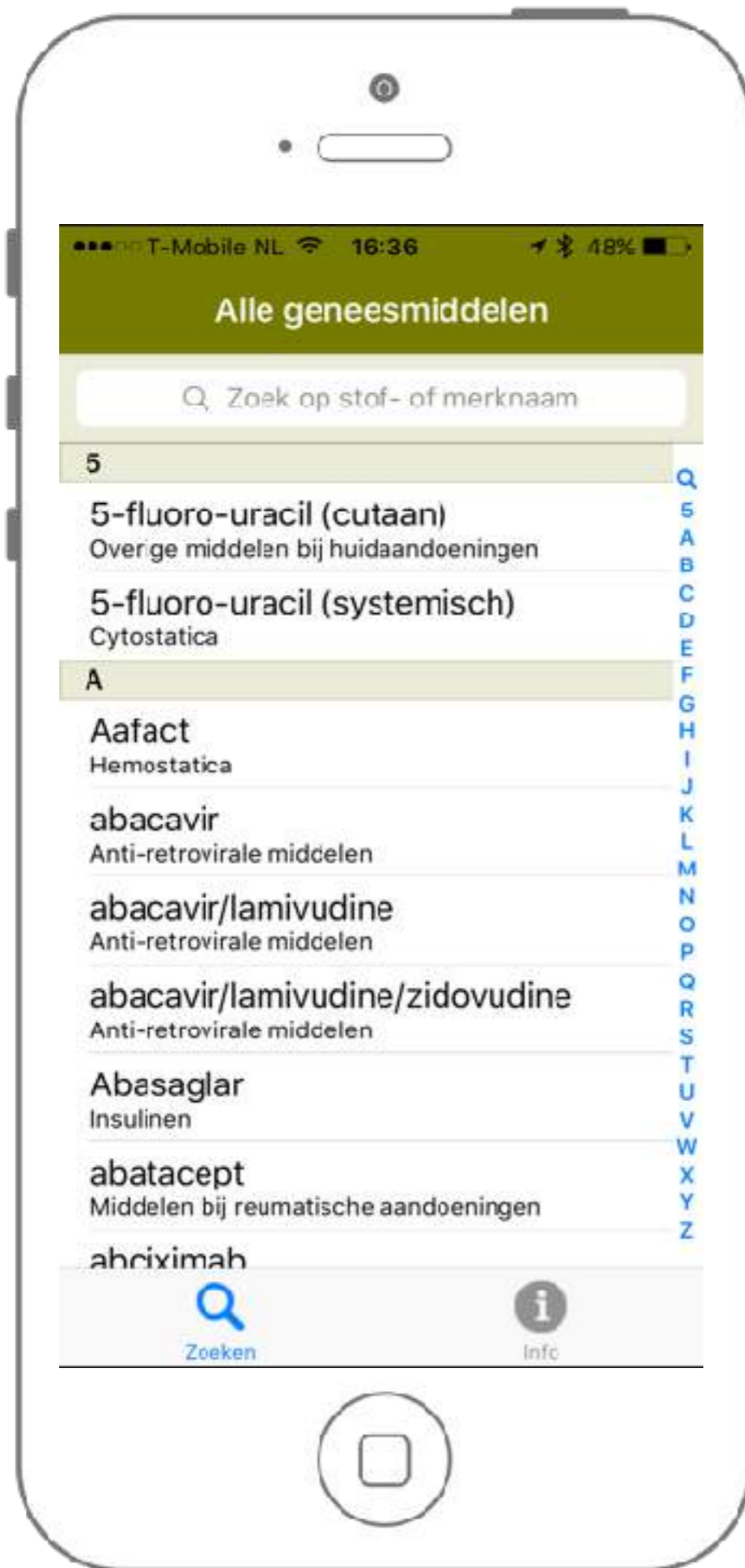
▶ Surgery

▶ Anesthesiology

-  Grouped
-  Recents
-  Favorites
-  Search





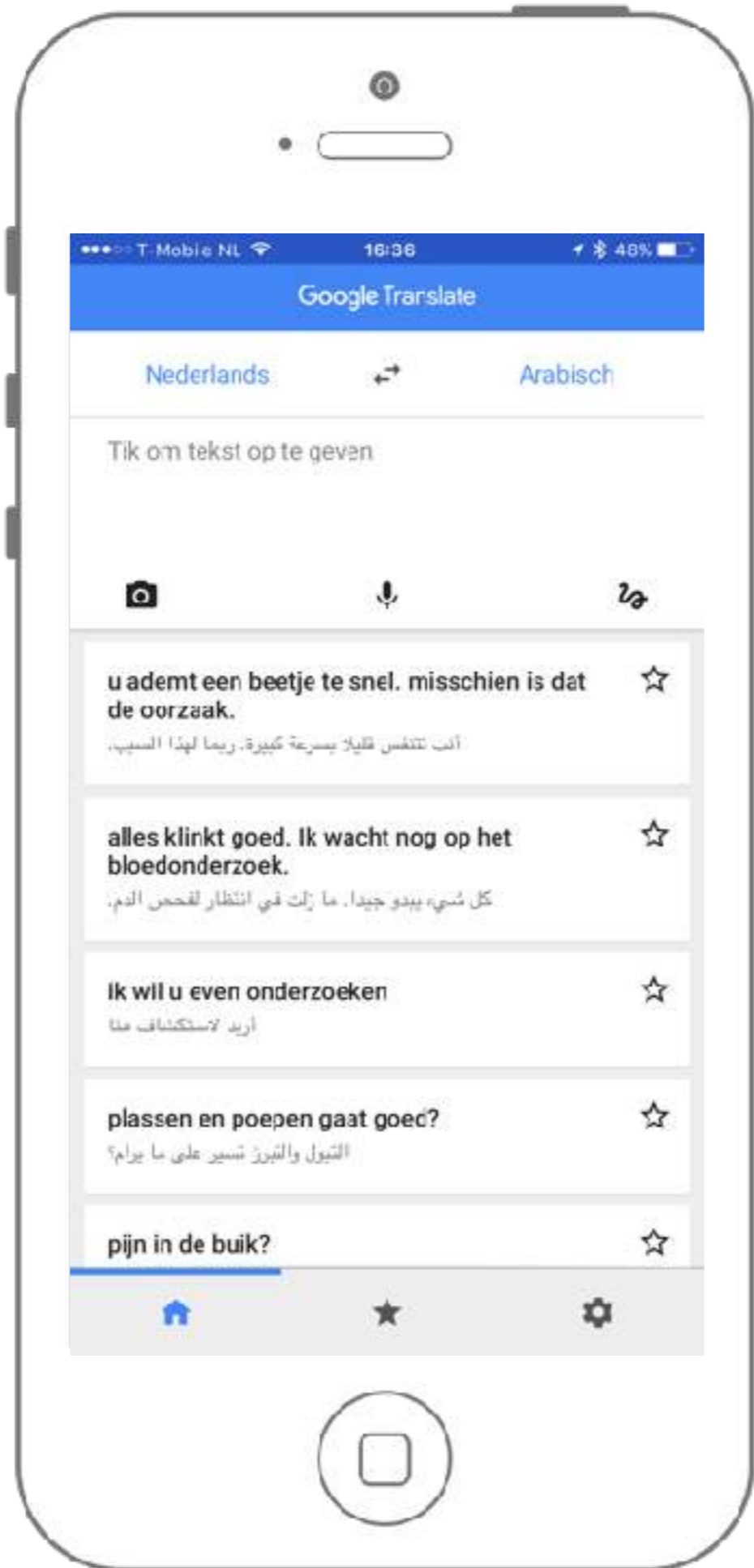




HET MENSELIJK LICHAAM

NR. **1** VAN
DE BIBLIOTHEEK VAN VERKENNERS





T-Mobile NL 18:36 48%

Google Translate

Nederlands ↔ Arabisch

Tik om tekst op te geven



u ademt een beetje te snel. misschien is dat de oorzaak. ☆

أنت تتنفس قليلا بسرعة كبيرة. ربما لهذا السبب.

alles klinkt goed. ik wacht nog op het bloedonderzoek. ☆

كل شيء يبدو جيدا. ما زلت في انتظار لفحص الدم.

ik wil u even onderzoeken ☆

أريد لاستكشاف منا

plassen en poepen gaat goed? ☆

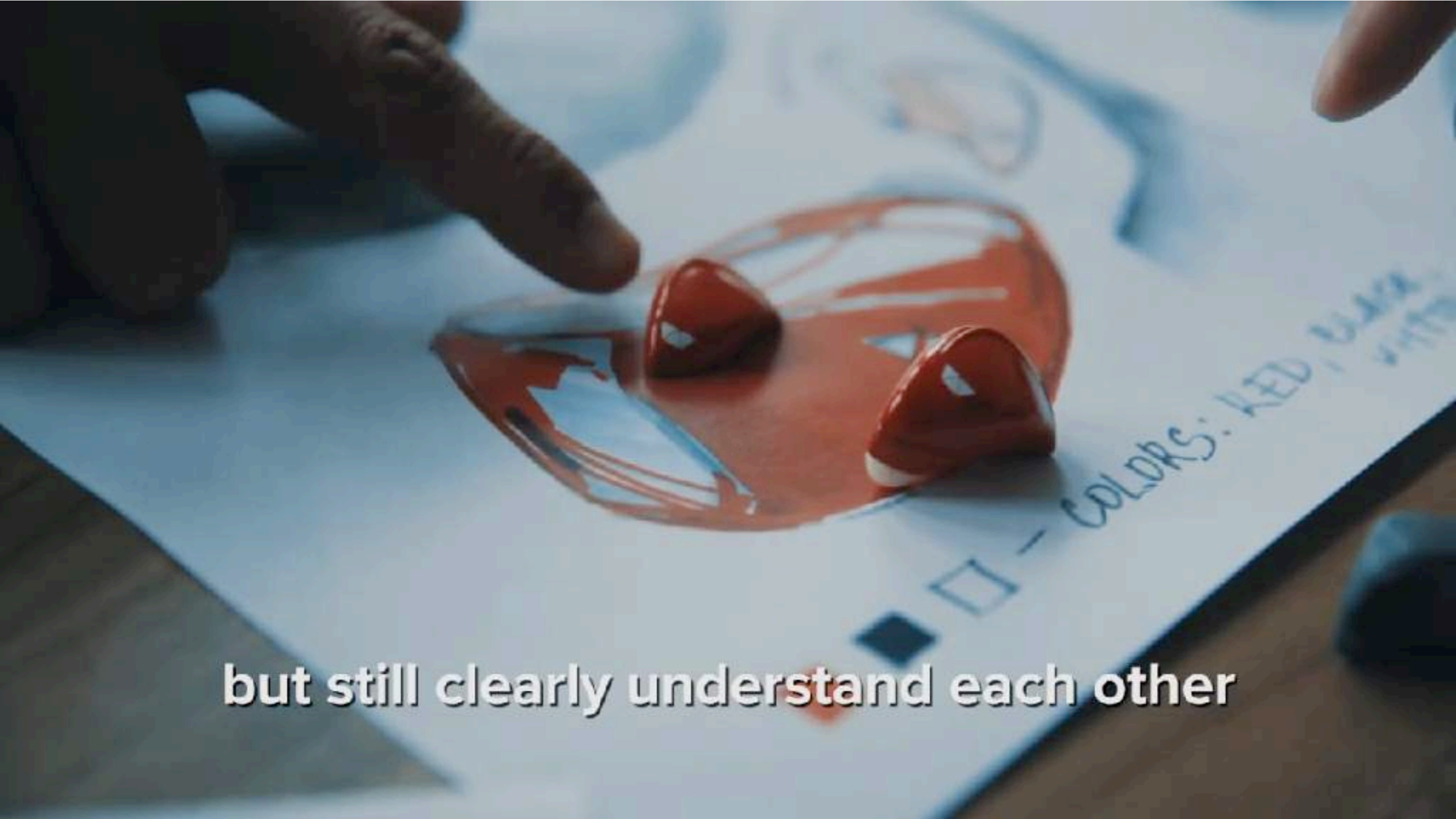
التبول والتبرز تسير على ما يرام؟

pijn in de buik? ☆



Refugee First Response Center





but still clearly understand each other



Buddie Bud

Google Pixel Buds: Bluetooth-headset met real-time-vertalingen

Google I/O 2017

voor 80% van de bezoeken
aan de arts is **geen** fysiek
contact nodig



Teleburns: uw hotline met het brandwondencentrum

CONSULTEER EEN BRANDWONDENSPECIALIST OP AFSTAND MET HET TELEBURNS VIDEOSYSTEEM



Teleburns maakt live beoordeling door specialist bij brandwonden mogelijk

FaceTime for Physicians: Using Real Time Mobile Phone-Based Videoconferencing to Augment Diagnosis and Care in Telemedicine.

Armstrong DG, et al
Eplasty. 2011 May 3;11:e23.

(a)



(b)



(c)



(d)



(e)



(f)



Emergency Medicine Today

members of
American College of
Emergency Physicians
ADVANCING EMERGENCY CARE

An affiliation with
BulletinHEALTHCARE

Today's News for the American College of Emergency Physicians from Newspapers, TV, Radio and the Journals

Customized Briefing for Michiel Tebbes

November 3, 2011

Emergency Medicine
Hospital News

Clinical News
Drug News

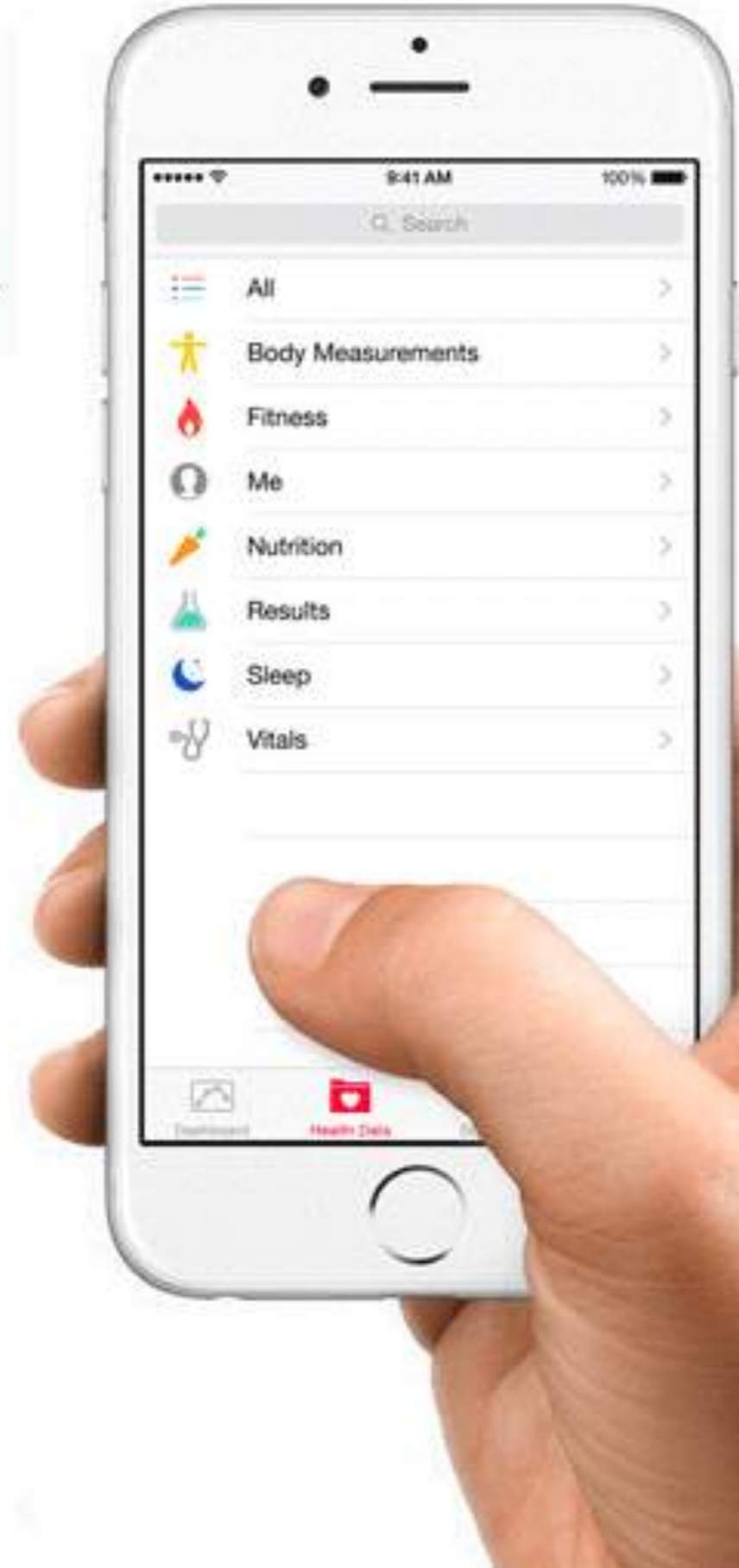
Legislative and Policy News

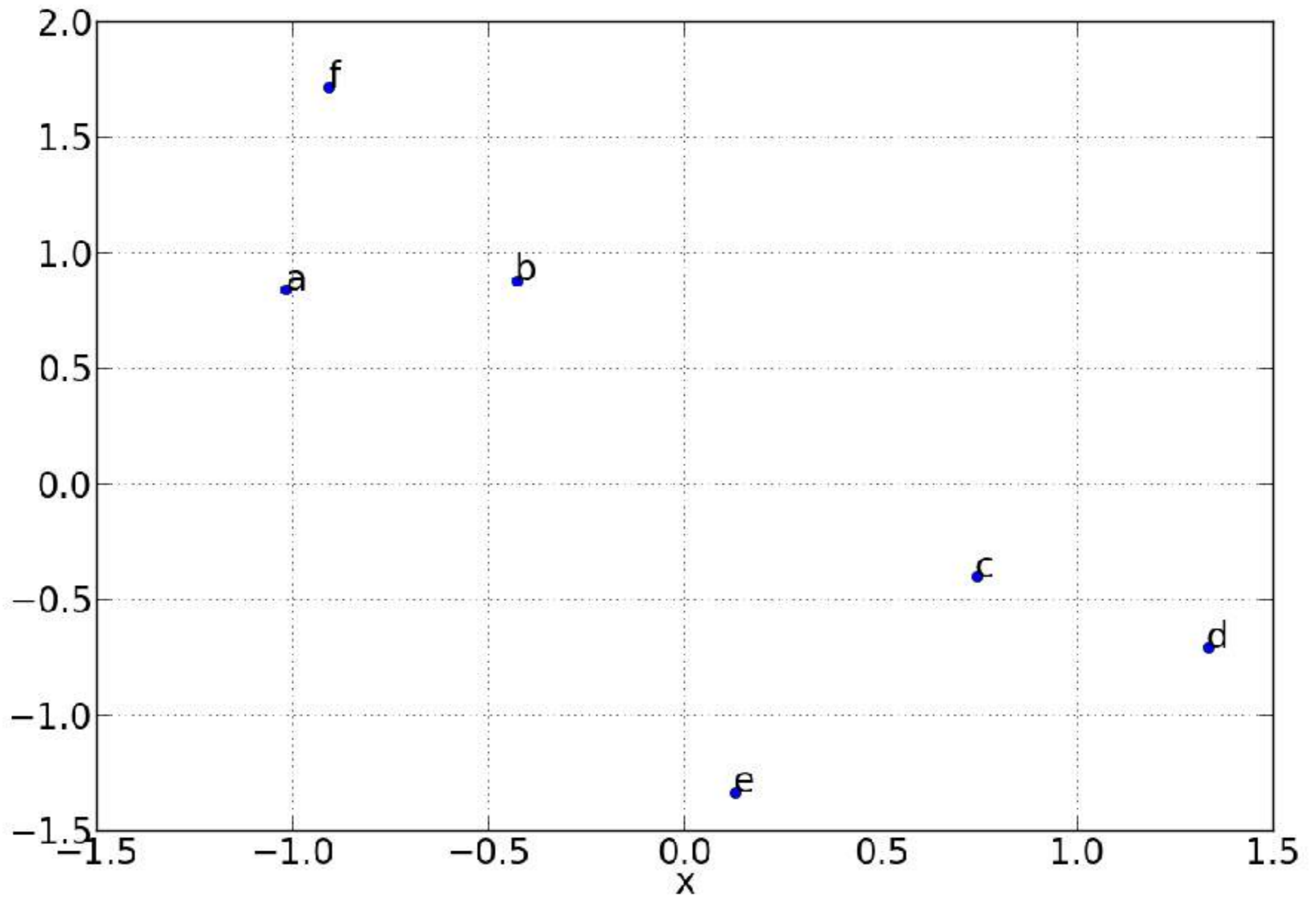
Emergency Medicine

iPhone May Help Remotely Assess Severity Of Stroke Symptoms.

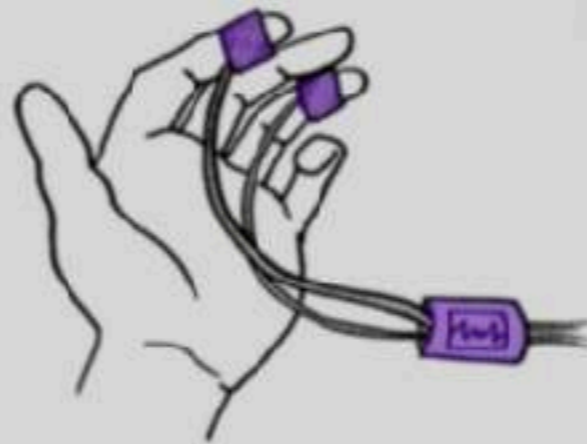
MedPage Today (11/3, Neale) reports, "It is feasible to assess the severity of a patient's stroke symptoms using the FaceTime software on an iPhone 4," according to a [study](#) published online in the Journal of Stroke and Cerebrovascular Diseases. Investigators found that "there was excellent agreement in total NIH Stroke Scale (NIHSS) scores between a bedside physician and another physician performing a remote evaluation using the audiovisual software (intraclass correlation coefficient 0.98)." The researchers reported that, "of 20 patients, the overall NIHSS score did not differ between the evaluating physicians by more than one point in 17, two patients differed by two points and one differed by three points."

You're already carrying a powerful medical research tool.





***I Generate More DATA in a DAY
than my doctor sees in a Year....***





< oktober 

M	D	W	D	V	Z	Z
23	24	25	26	27	28	29

Zaterdag 28 okt. 2017

Favorieten

Hartslag **65** spm
Vandaag 20:17

Mindfulnessminuten **5** min.
Vandaag 17:23

Slaapanalyse **7 u 45** min.
Vandaag 08:12

Activiteit

Activiteit Vandaag 20:20



Bewegen **393/420 CAL.**
 Trainen **58/30 MIN.** Staàn **13/12 UUR**

Uren waarin gestaan **13** uur
Vandaag 21:00

< oktober 

M	D	W	D	V	Z	Z
23	24	25	26	27	28	29

Zaterdag 28 okt. 2017

Activiteit

Actieve energie **393** kcal
Vandaag 20:19

Rustenergie **1.779** kcal
Vandaag 20:15

Stappen **4.437** stappen
Vandaag 20:10

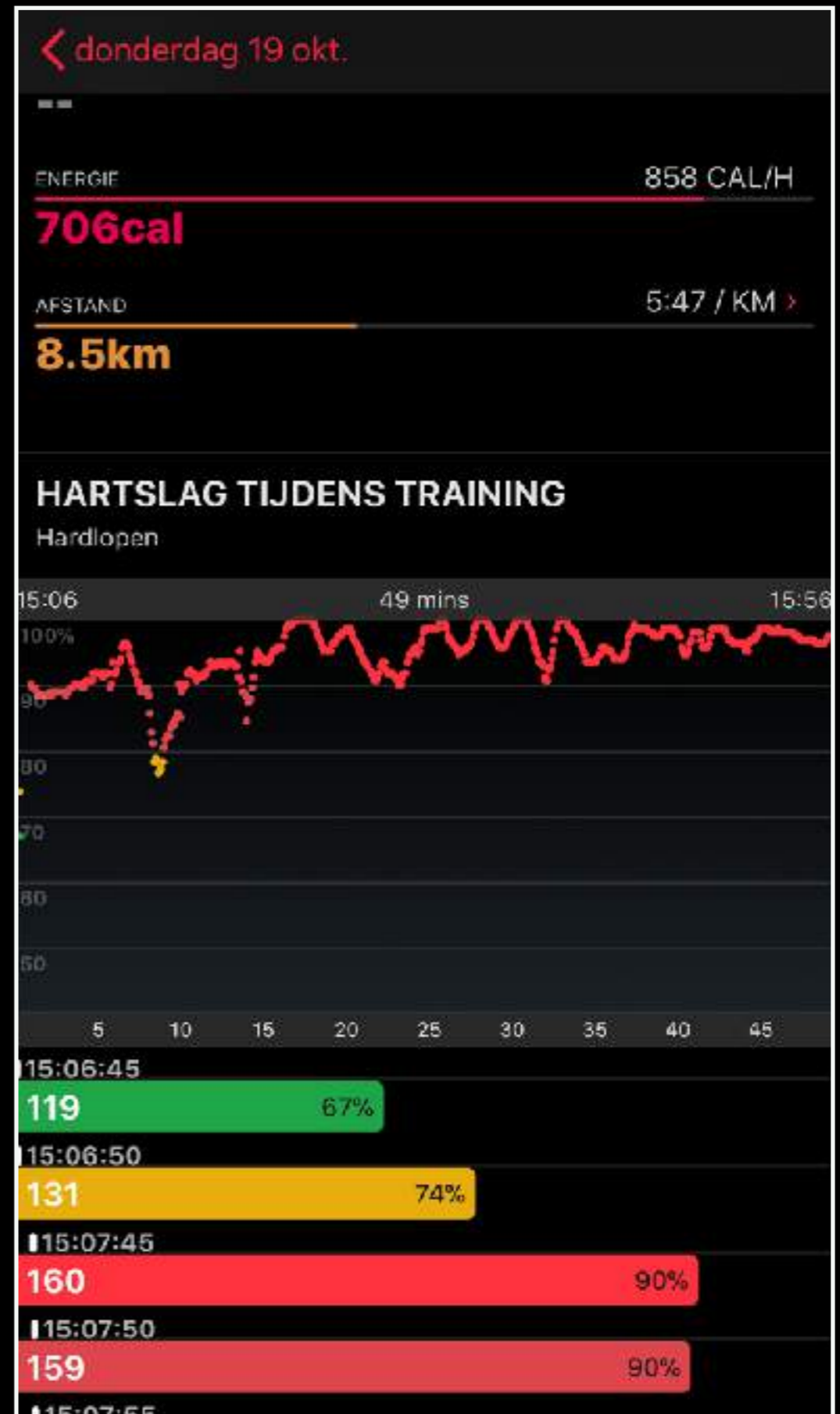
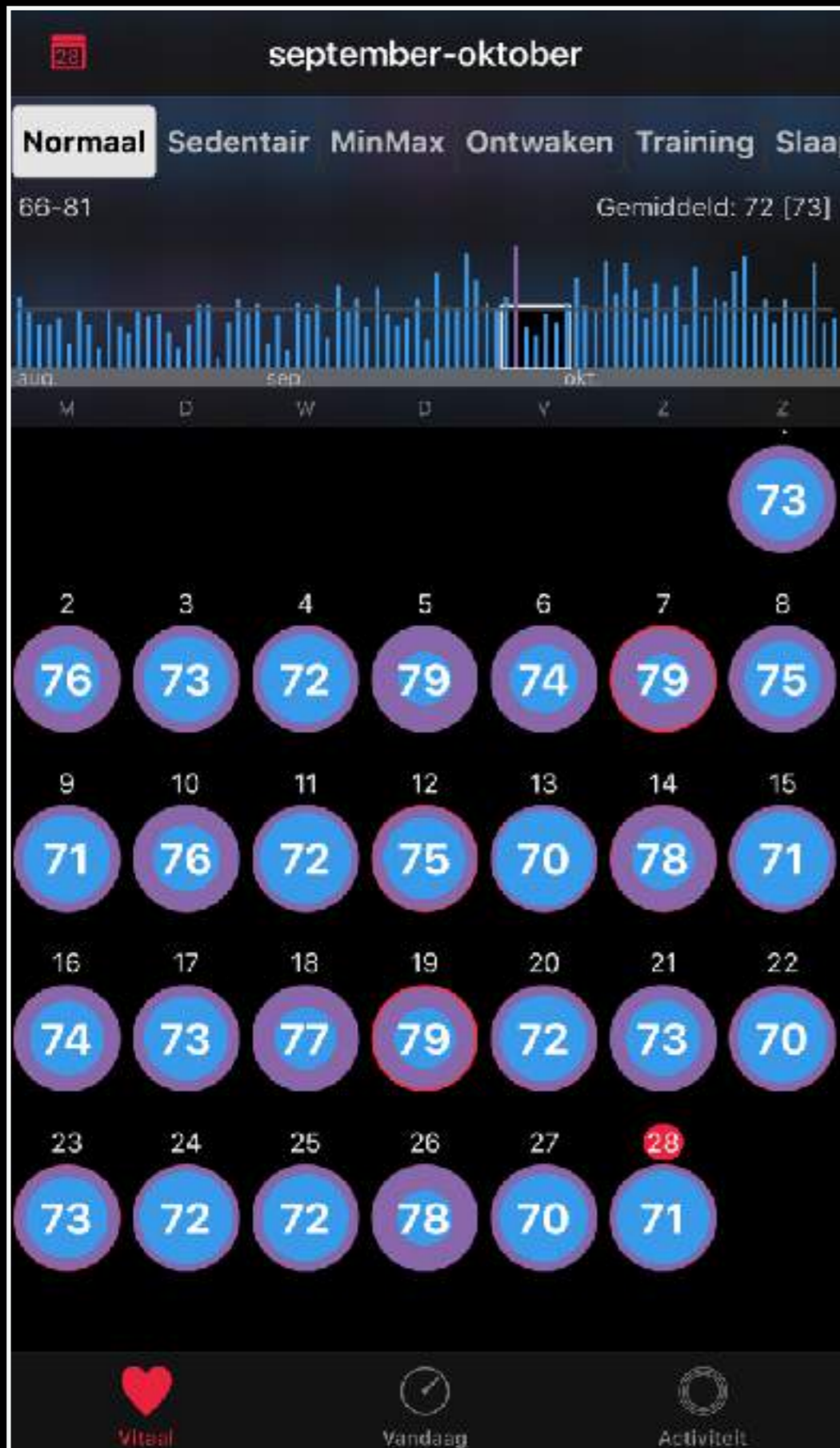
Wandel- en hardloopafstand **4** km
Vandaag 20:10

Trainingsminuten **33** min.
Vandaag 18:03

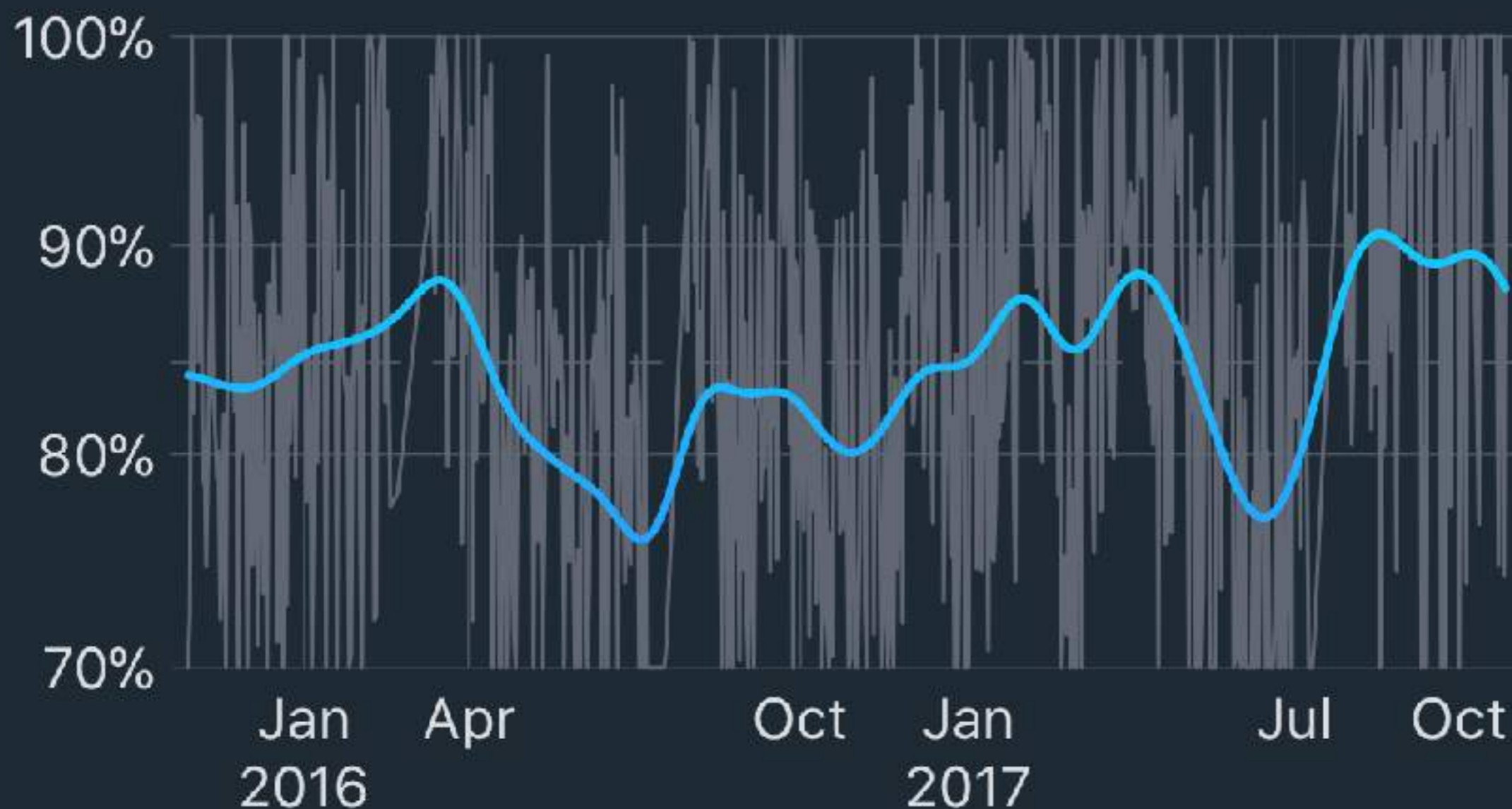
Traplopen **7** verdiepingen
Vandaag 13:50

Work-outs **1 u 4** min.
Vandaag 12:37

Fietsafstand **3,6** km
Vandaag 12:37



Sleep quality



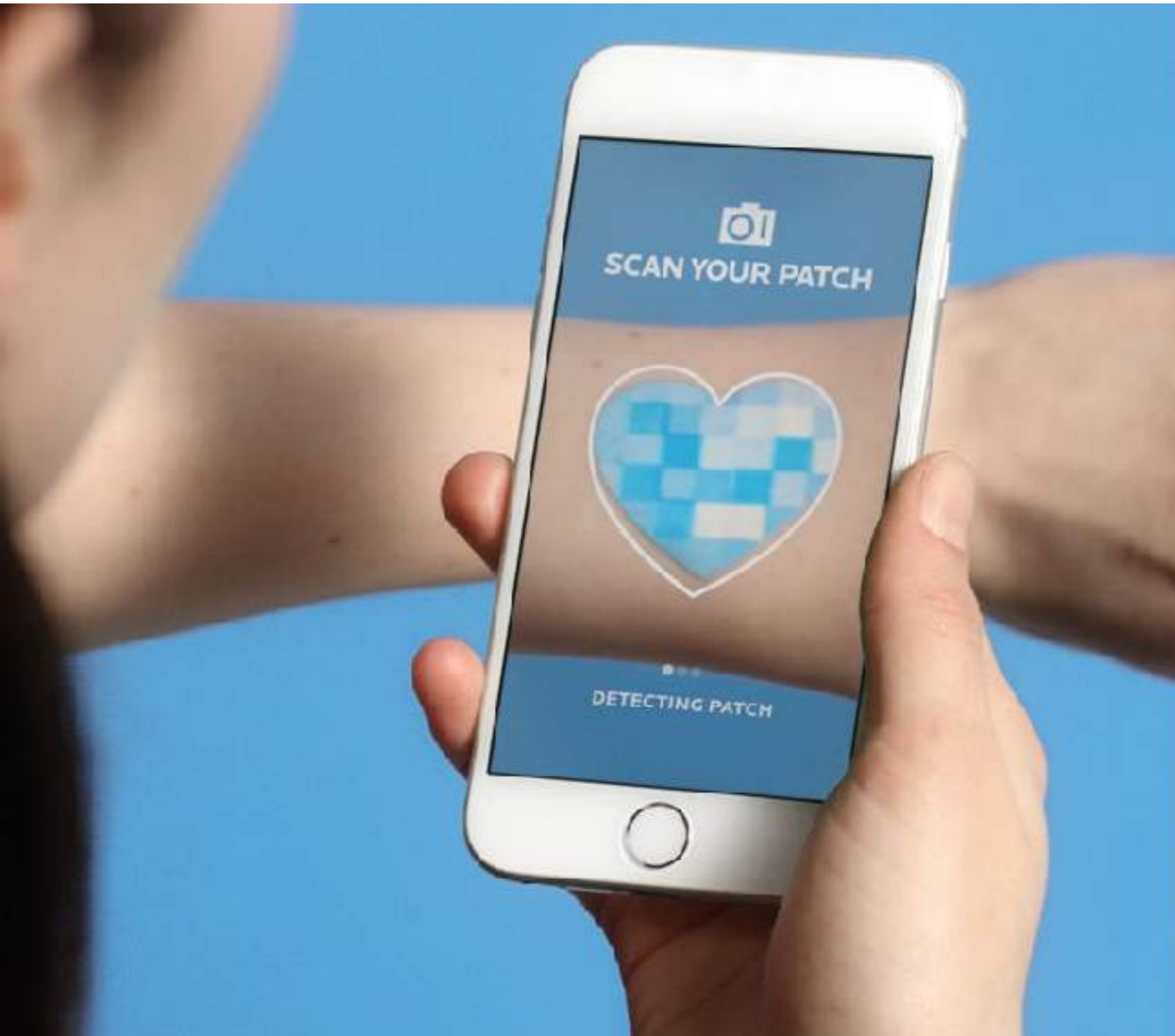
Your average: 84%

Nederland: 77%

Lowest: Saoedi-Arabië, 60%

Highest: Nederland, 77%

Sleep Cycle alarm clock



SAN FRANCISCO

☁️ 32°C UV 2

Laura

MONITOR YOUR CURRENT SUN RISK

BEHAVIOUR DAILY SUN-STOCK

← SAFE

Time	Sun Risk Level
14h	High (Blue heart)
15h	Low (Yellow-green heart)
16h	Low (Yellow-green heart)
17h	Medium (Orange heart)

14h 15h 16h 17h

SCAN





FEVER SCOUT









Share your Heart.
Beat AF.

TOTAL HEARTBEATS

Beats recorded
1,102,500

STATISTICS

Lowest Recorded Heart Rate
55

Highest Recorded Heart Rate
181

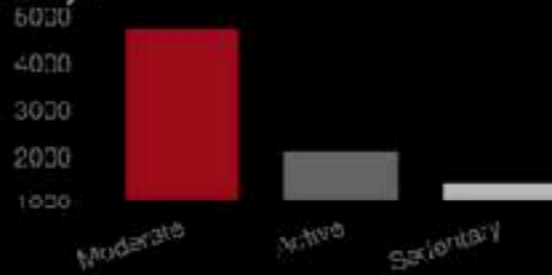
Avg Male Heart Rate
87

Avg Female Heart Rate
82

Avg Heart Rate - Tall
89

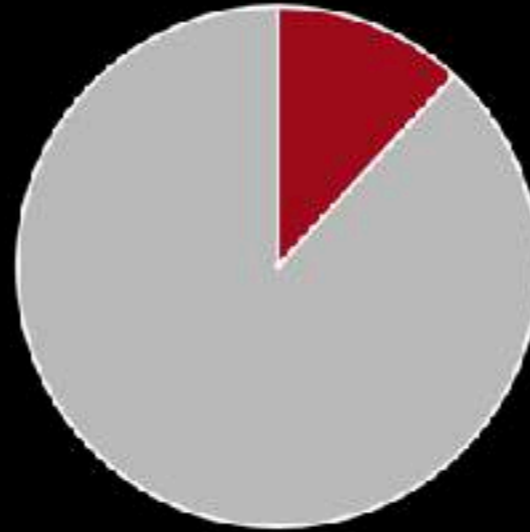
Avg Heart Rate - Less Tall
84

Lifestyle



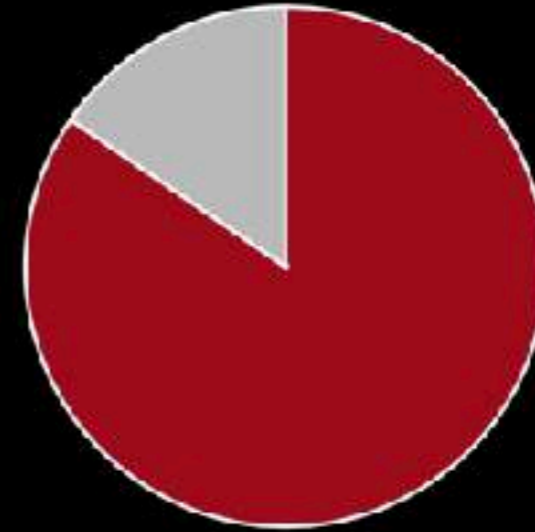
Smoking

YES NO

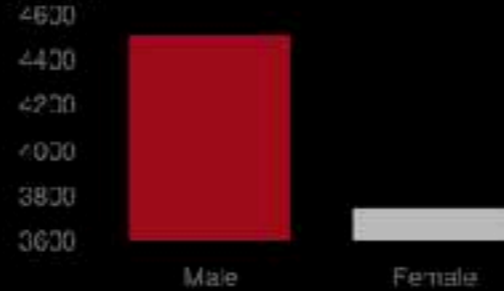


Arrhythmia

NO YES

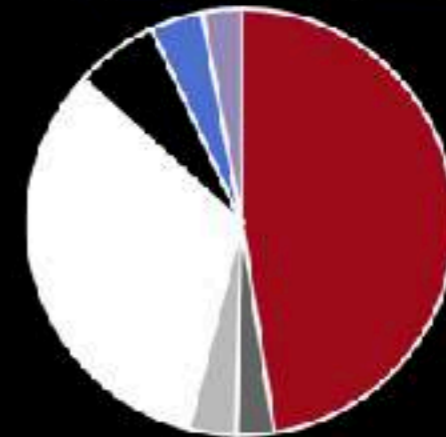


Gender



Type

Atrial Fibrillation AVNRT
Atrial Tachycardia Unknown
YES Atrial Flutter AES

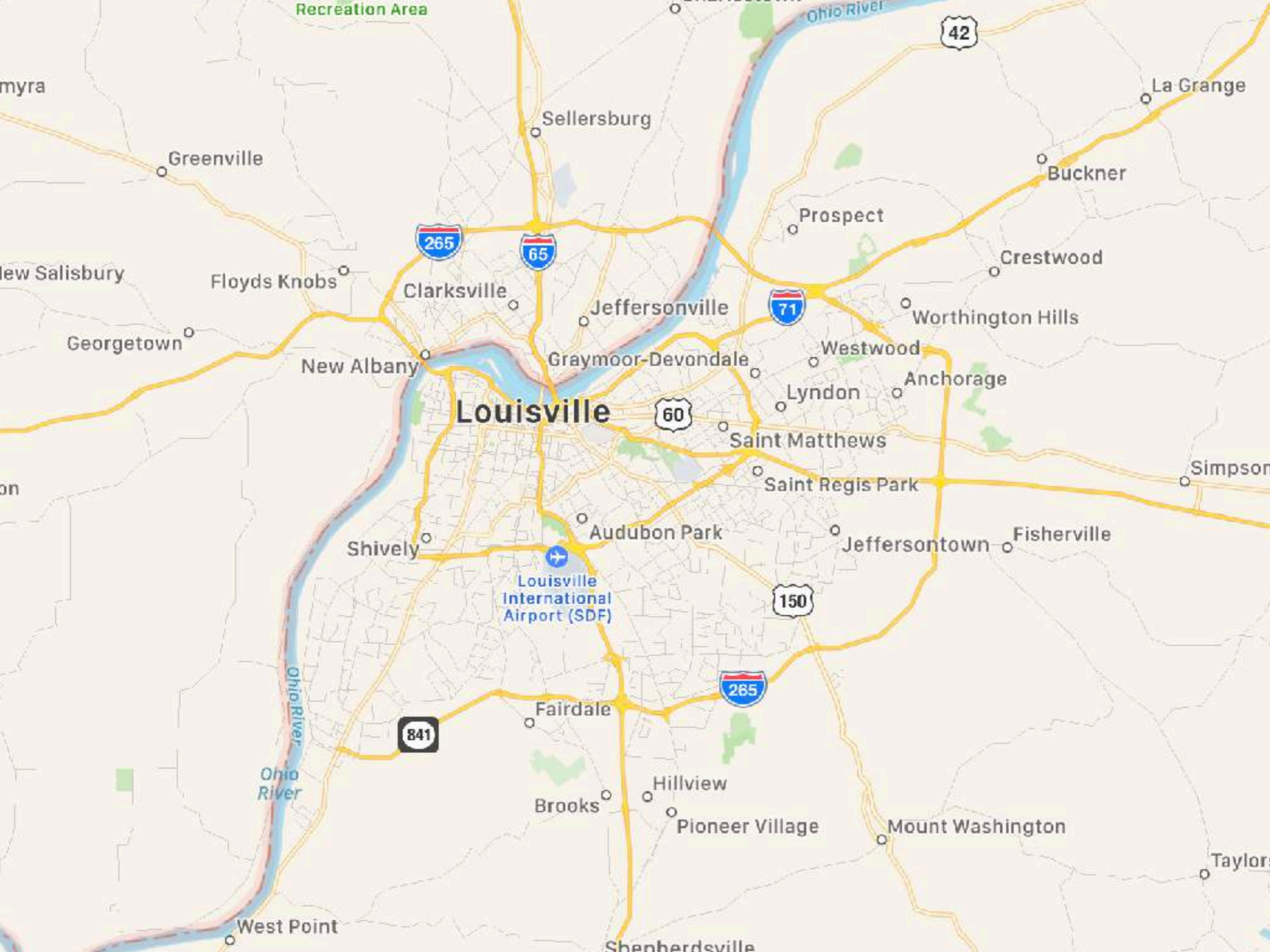




Meet our new Propeller Sensor

Propeller receives new FDA Clearance for next generation platform

[SEE THE ANNOUNCEMENT](#)



Louisville

Louisville International Airport (SDF)

841

265

65

71

60

150

265

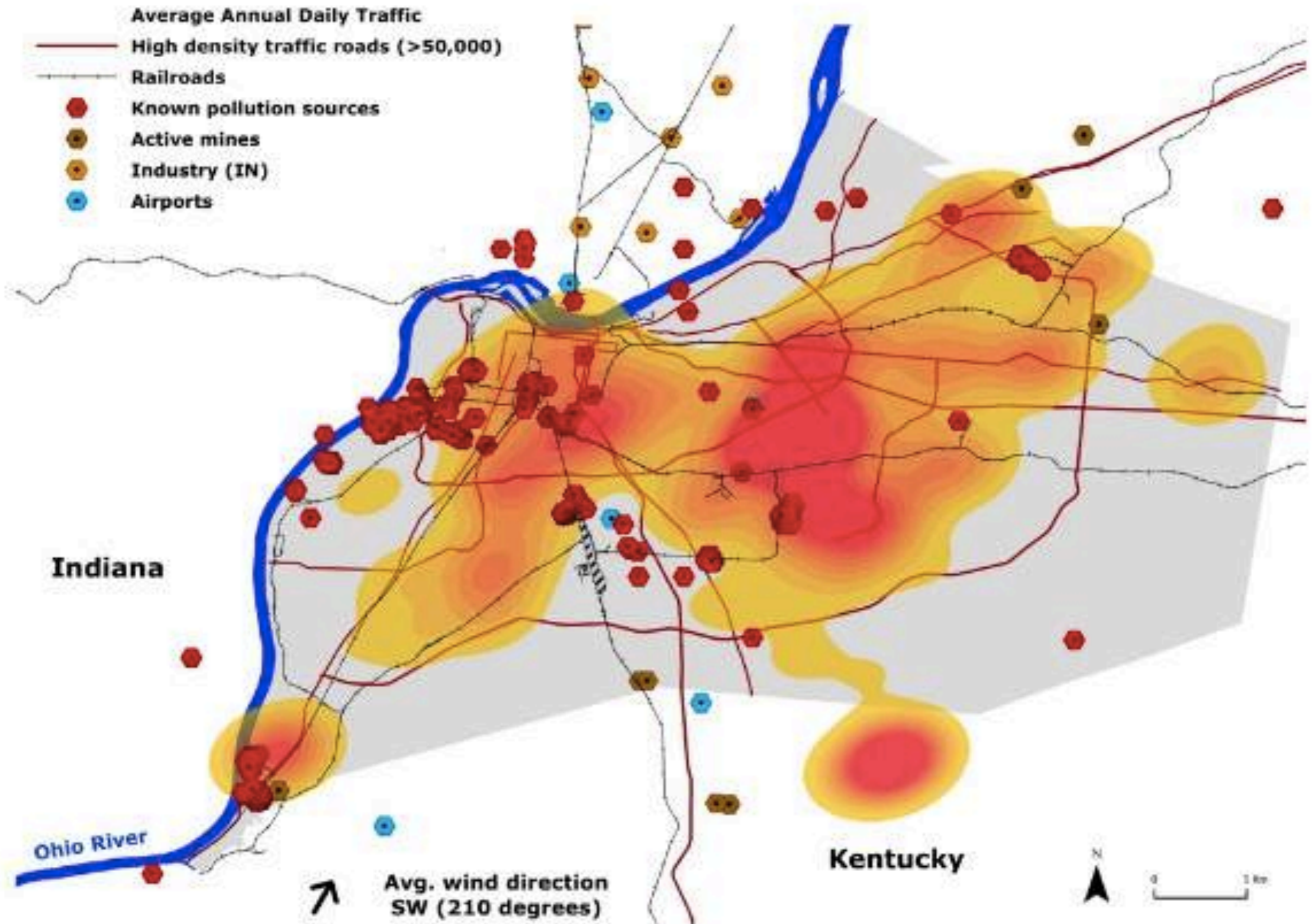
42

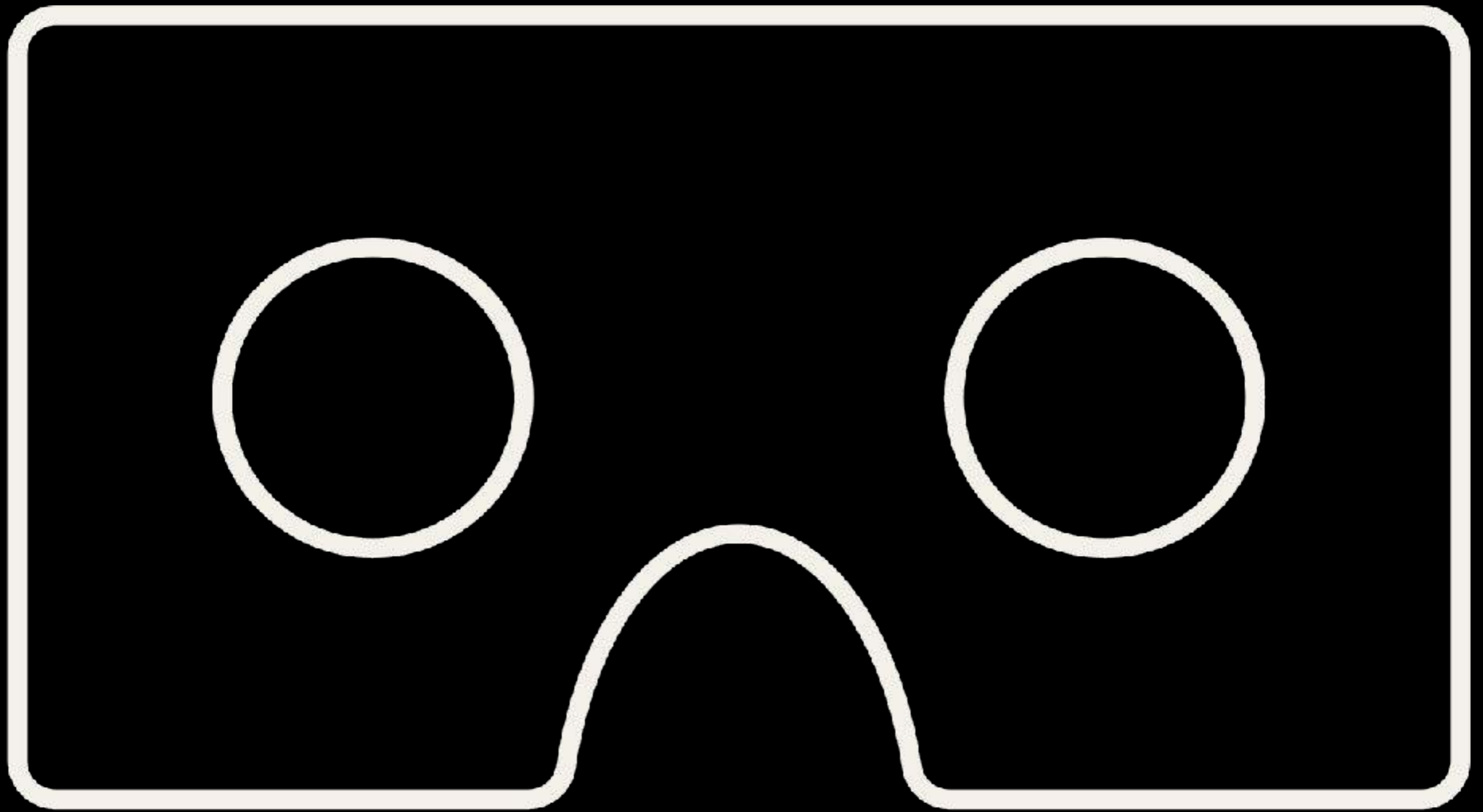
Ohio River

Ohio River

Recreation Area

Asthma hotspots and local sources of pollution to explore in analysis

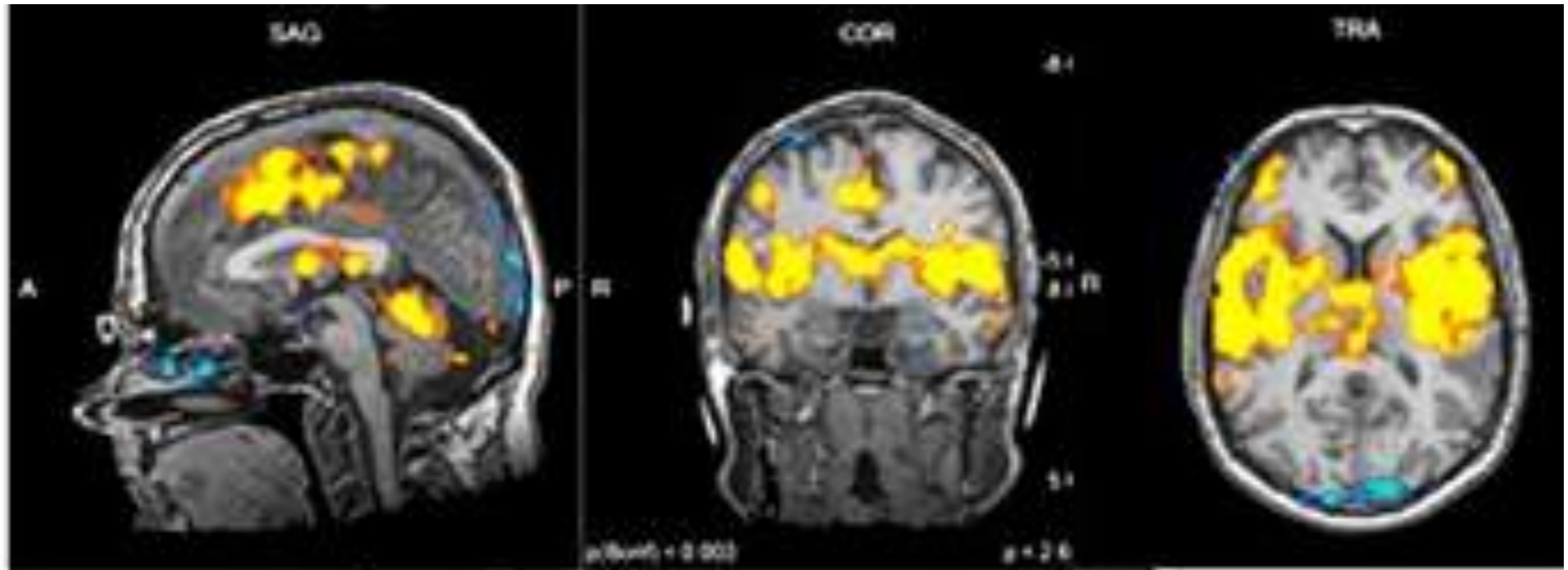




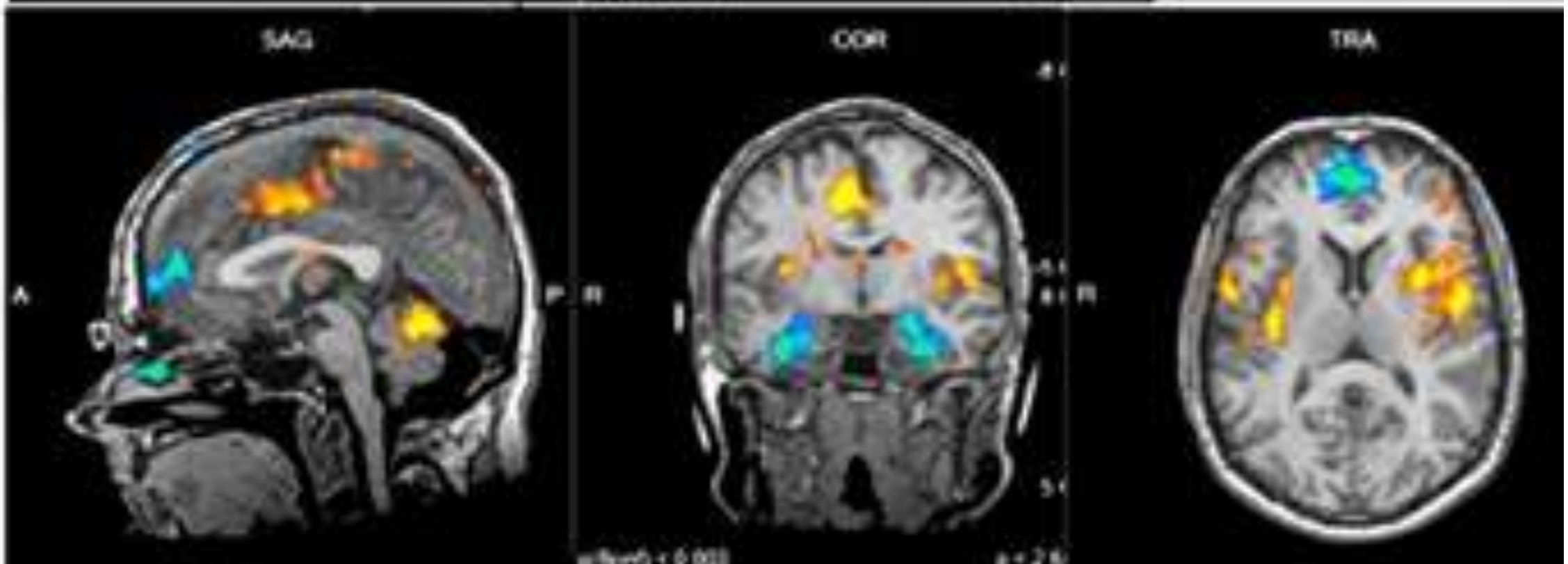




No
VR



Yes
VR





Fearless

Overcome your fears with Virtual Reality.



SAIFULLAH, 22
UAE

Where it all started



APPLE

GOOGLE

AMAZON

The background of the slide is a light blue gradient with a repeating pattern of white icons. The icons include medical symbols such as a stethoscope, a bandage, a plus sign, a thermometer, and a syringe, as well as transportation symbols such as a car, a van, and a truck. The text 'UberHEALTH' is centered in a large, white, sans-serif font.

UberHEALTH

FLU PREVENTION ON DEMAND

Drone moet medicijnen op Schiermonnikoog bezorgen

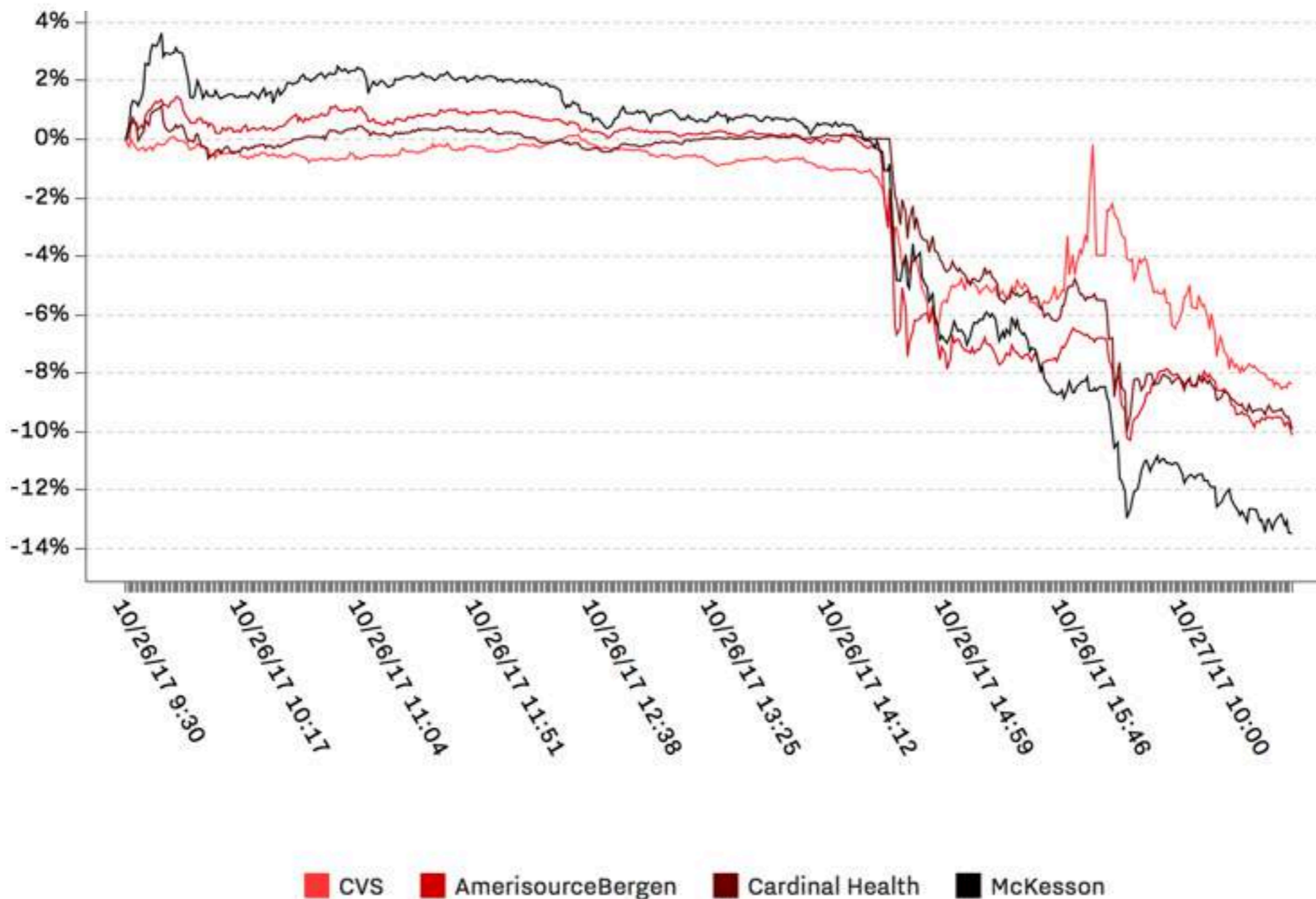
© VR 6 OKTOBER, 09:28 REGIO




Amazon's move into wholesale pharmaceuticals sent pharmacy stocks plunging

It's tough being everyone else.

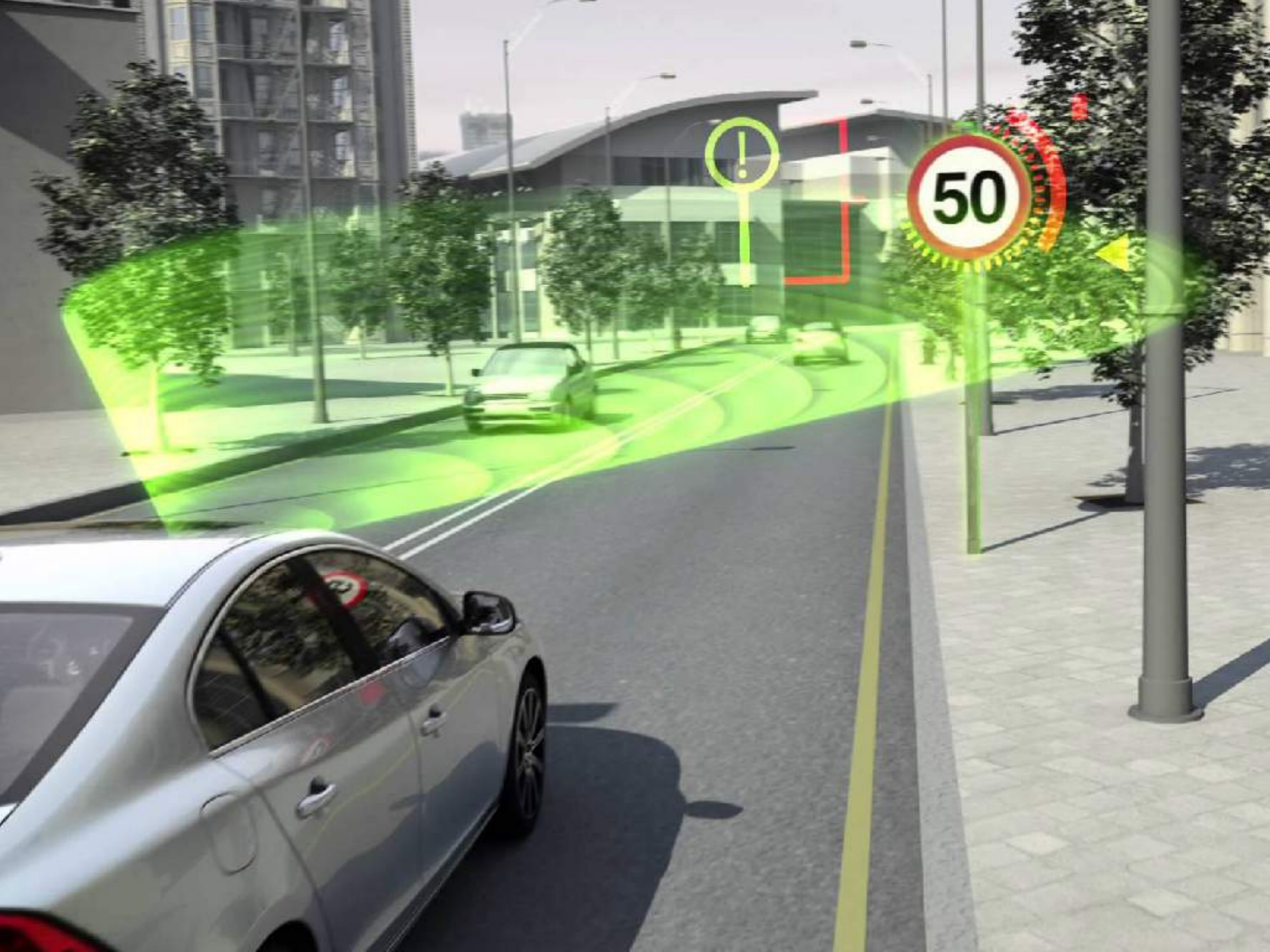
Rani Molla • Oct 27, 2017, 12:00pm EDT



An aerial, top-down view of a winding road with two lanes in each direction. The road is dark grey with white dashed lane markings. Several cars are visible on the road. Two cars are highlighted with green circular sensor waves emanating from them, suggesting advanced driver assistance or autonomous driving technology. The background is a light, hazy landscape with some greenery. The overall aesthetic is clean and futuristic.

Our Vision is that no one is killed or injured in a Volvo by 2020

Our Future





DB

Berlin Hauptbahnhof

D WOB TI 383





2016-10-03 16:57:47 --- MPH

BLACKVUE DR650GW-2CH/FHD-HD

ANNALS OF MEDICINE APRIL 3, 2017 ISSUE

A.I. VERSUS M.D.

What happens when diagnosis is automated?

By Siddhartha Mukherjee



THE NEW YORKER

Data

Algorithm

Model

```
100100011101000000101000110111010110
100100111101110000001111100110100100
100001101101111101010011100001101001
111111010000110111001010111100001011
11001111110111111100100001110110110
010000110100110110000110000100010000
010101110011001111011001110100010111
001000010101100101000001000010011110
011101001111110010111010101010111100
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010110000010011101010010101110110001
011011111010111100010100010100010000
011010011011011010001000101111001101
000101000001100110001100100010010110
100101010100010011100101010101111101
```



$$f(\mathbf{x})$$





“Algorithms will replace doctors in prescribing medication.”

–Walter De Brouwer, CEO Scanadu

SCANADU
FIRST EDITION

Your Algorithm is going to see you now!

Discipline	Algorithm	Human
Dermatology Melanoma	Accuracy 95% (IBM) Accuracy 91% (Stanford)	Accuracy 75% - 84%
Pathology Lung Cancer Tissue	Accuracy 81% (Stanford)	Accuracy 73 %
Radiology Mammographic Screening	Accuracy 87.4% (IBM)	Accuracy 81.1%
Pathology Mammographic Metast.	Accuracy 92.%% (MIT/Harvard Med /Beth Israel)	Accuracy 73.2 %
Diabetic Retinopathy	Accuracy 90% (Google) Accuracy 86% (IBM)	Accuracy 87.1%

Where it all started



APPLE

GOOGLE

AMAZON

**The most dangerous
phrase in the language is
“We’ve always done it this
way”**

–adm. Grace Hopper

The Creative
Destruction of

MEDICINE



HOW THE DIGITAL REVOLUTION
WILL CREATE BETTER HEALTH CARE

ERIC TOPOL, M.D.

Eric Topol

Author of *The Creative Destruction of Medicine*

THE
PATIENT
WILL SEE
YOU
NOW

The FUTURE of MEDICINE
is in YOUR HANDS

Yuval Noah Harari

Author van de wereldwijde bestseller *Sapiens*



Homo
Deus

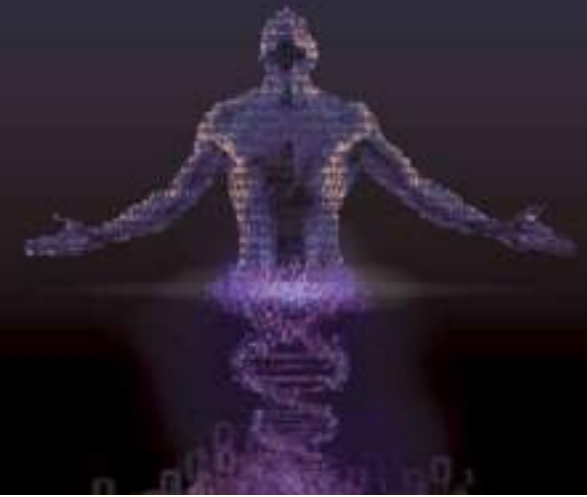
Een kleine geschiedenis
van de toekomst

Met een voorwoord van Bas Heijne

LIFE
3.0

BEING HUMAN IN THE AGE OF
ARTIFICIAL INTELLIGENCE

MAX TEGMARK



Michiel Tebbes

SEH-arts | Medisch Futuroloog

<http://tebb.es/MijnPresentaties>

meddr.nl

@meddr