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April 12-15, 2010 | Rosen Shingle Creek Resort | Orlando, Florida



Healthcare 2.0!

Data Everywhere...now coming from
medical devices everywhere!

Chris Stakutis
VP Healthcare, CA

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Healthcare's new challenges

Even in a modern enterprise environment:



- > 12%-15% of population Type-II diabetic
- > Close to 20% Hypertensive/other chronic
- > Median age soaring
- > Healthcare costs increasing


The number of people at-risk/sick is highest ever.

The costs to care for them are highest ever.

The likelihood of them needing costly care are highest.

Can innovative/pervasive technology help?

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General Idea: Avoid costs



It's just cheaper, better, easier...to take care of people *ahead* of them being broken.

**Most
Costly**



**Least
Costly**

Hospital



Clinic




Home



Mobile



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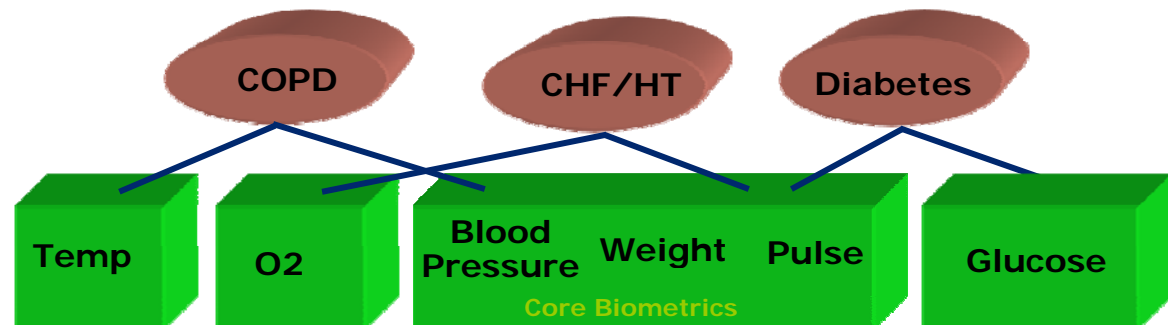
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Biometric devices are a start...




A small number of basic affordable bio-metric devices can suitably monitor such patients.

- Empowering self-care
- Avoiding episodic problems
- Fewer doctor visits & medication
- Higher morale, productivity, longevity



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Holistic Health Management

BUT...

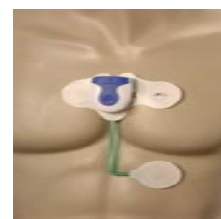
Managing the WHOLE person means:

Utilizing clinical devices

Utilizing athletic devices

Utilizing social devices

...Together



**Devices, Software, Databases,
People...together.**

How does it work?

Patient receives a box

- Contains patient-selected or advisor-selected devices.
- Devices are pre-configured.
- Some devices interface with the home computer, others with the home WiFi or mobile or cell.
- Minor PC-install program (for devices needing the PC connect).

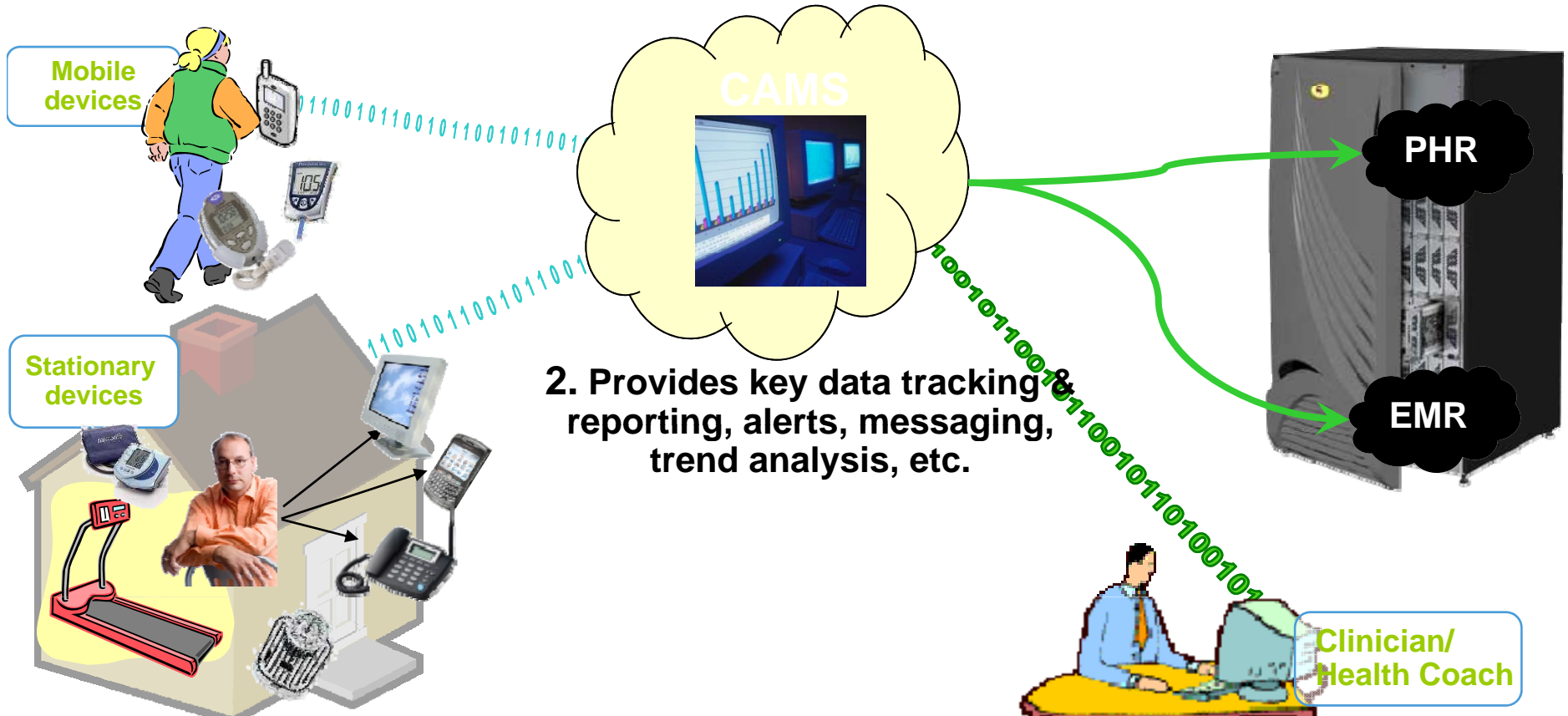
Patient does...

- Go about their normal daily life.
- Occasionally interact with a device (e.g. step on a scale).
- Typically never “runs” any software or any manual tasks.
- Can view data in many different life-convenient ways.

Wide variety of devices...Clinical, Athletic, & Social Tools.



Network



1. CAMS device-side software collects, secures, marshals data to service center.


2. Provides key data tracking reporting, alerts, messaging, trend analysis, etc.

3. CAMS data and systems monitored and managed by health/wellness organization.

4. Patients kept continuously aware of health data through innovative technology (Chumby's, cars, iPhones, webs) and other tools.



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What are the devices?

Clinical	Scale	
	Blood Pressure	
	Glucose/PkFlow	
	Pulse & O2	
Exercise	Pedometer	
	GPS	
	Gym Equip	
Social	Robots	
	Encounters	
	Virtual Worlds	
I/O	Phones	
	eDisplay	
	ePens	
	Cars	

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Chumby Applications




What is a Chumby??

- ~\$150 Internet display device
 - Touch screen, color, sound
 - Microphone, motion detection
- (patent pending health usage)



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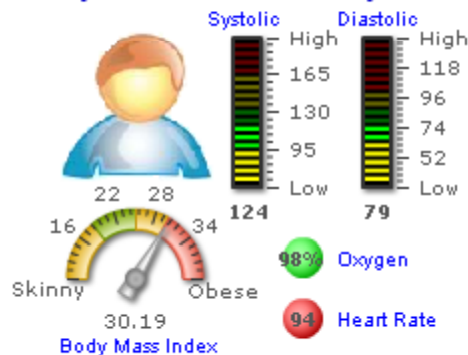
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Chumby Applications

My Health Summary

Chris Stakutis
 Age: 45
 Height: 6'0"
 Sex: Male
 Race: White
 Weight: 222
 Meds:
 Alli
 Aspirin
 Cod Liver Oil

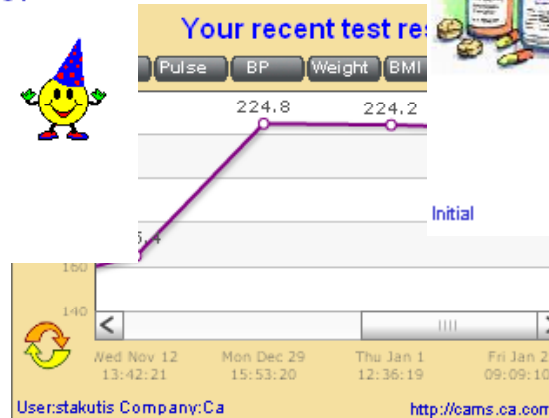


- Health Summary
- Happiness recorder
- Interactive charter
- Medication confirmation
- Coming: Voice mail & Voice Diagnosis (patent pending)

Touch your happiness!



User:charisse



Are these your current meds?

Aspirin
 Cod Liver Oil





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Social Networking Applications



- Easy view of CAMS data and graphics.
- Group members share messaging and goals.
- Social encouragement
- CAMS system messages
- Much more!! (patent pending)



Facebook | CA Medical Systems - Internet Explorer

http://apps.facebook.com/ca_medical_systems/home

facebook Home Profile Friends Inbox 2 Chris Stakutis Settings Logout Search

CA Medical Systems

Health Summary Recent Results Ca Health Discussions Group Settings

My Health Summary

Chris Stakutis
Age: 45
Height: 6'0"
Sex: Male
Race: White
Weight: 222
Meds:
Aspirin

Systolic High 165 130 95 124 Low

Diastolic High 118 96 74 52 79 Low

16 22 28 34 Skinny Obese

98% Oxygen

Applications Online Friends (4) Internet 100%

http://www.facebook.com/ac.php?i=60022399675868meta=AAAAQAQWRs67Pw0Tqq4e2U_jm6WAAAATqNBdTs

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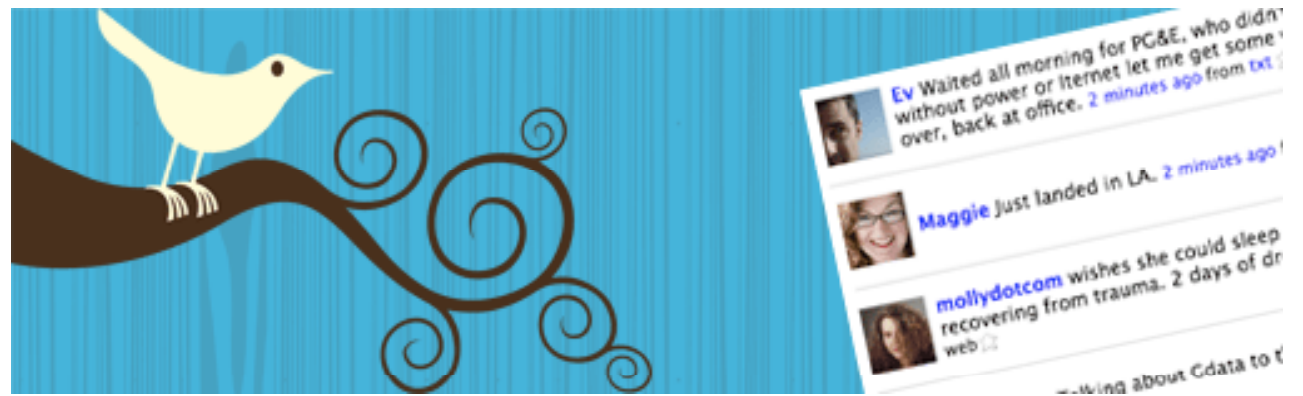
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Social Networking Applications

twitter

- Create twitter account and add in your doctor, family, friends.
- Every CAMS data receipt automatically broadcasts



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The Magical ePen

Rover wireless ePen

- **SIMPLE!**
- **Check-boxes & write-ins.**
- **Automatically xmits to CAMS.**
- **Hang on fridge, wipe off!**



TODAY Yesterday 

MEAL INFORMATION

Breakfast
 Nothing Light Normal Heavy

Lunch
 Nothing Light Normal Heavy

Snack
 1 snack 2 snacks 3 snacks No snack

Dinner
 Nothing Light Normal Heavy

EXERCISE INFORMATION

> 10 mins 15-20 mins 25-30 mins
 10-15 mins 20-25 mins 30+ mins

MEDICATION TAKEN

Breakfast Lunch Dinner
 Morning Afternoon Evening

EMOTION

Extremely Happy Average Depressed
 Happy Sad

PAIN

Unbearable Pain Tolerable Pain No Pain
 Moderate Pain Pain or Sensitivity

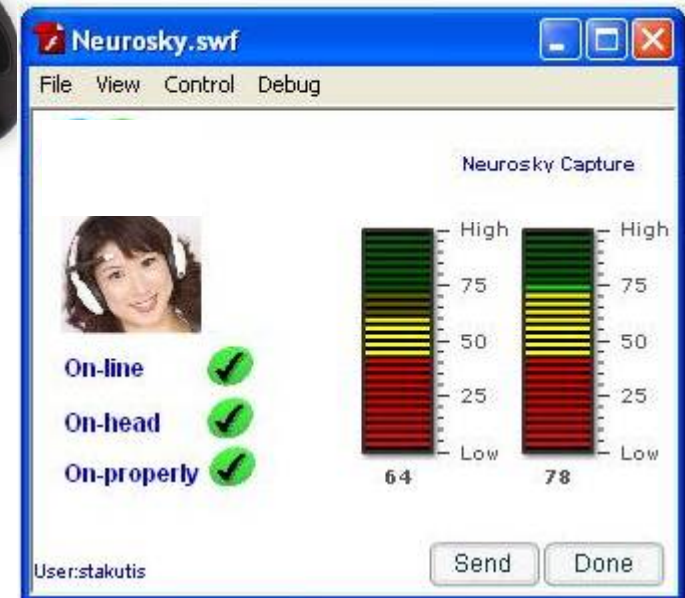
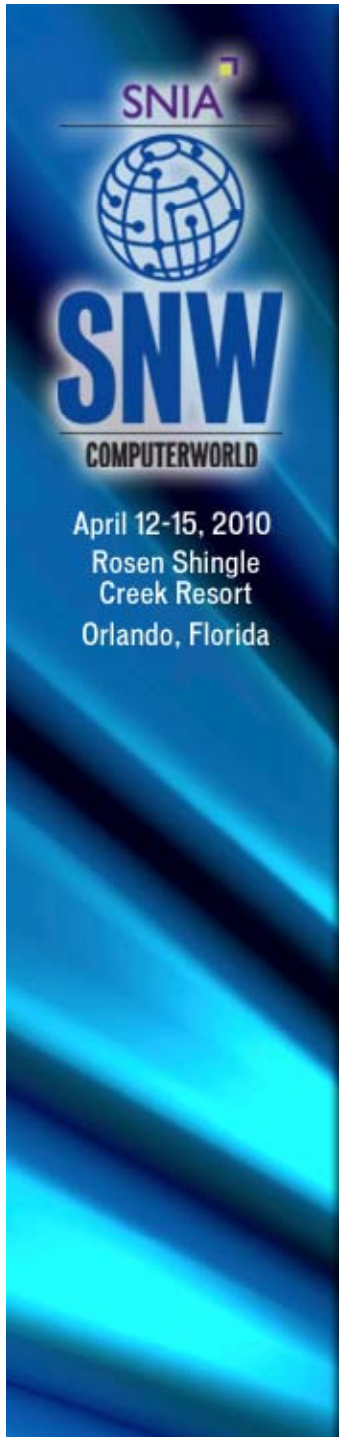
GLUCOSE RATING **WEIGHT**

mg . lbs
 dL kg

BLOOD PRESSURE **PULSE**

/

Mental Health Devices

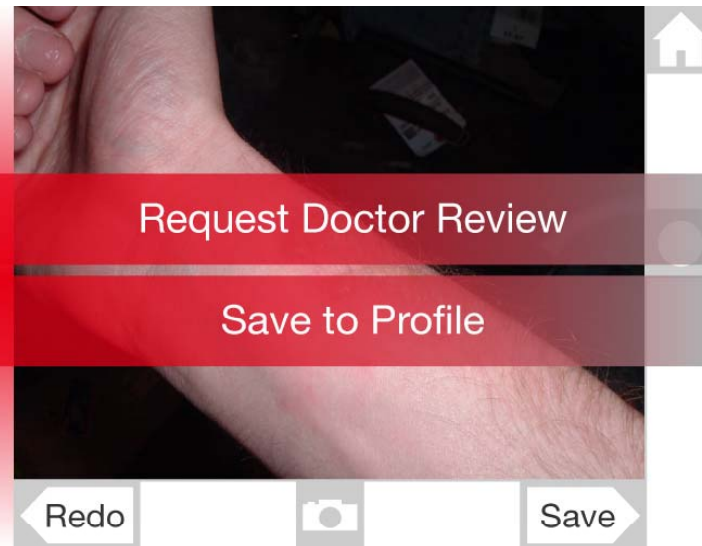


NeuroSky Brainwave monitor

- Attention and Meditation levels
- Used by Mattel and others
- Elderly cognitive trending
- Medication effects
- Wireless
- \$50-\$80

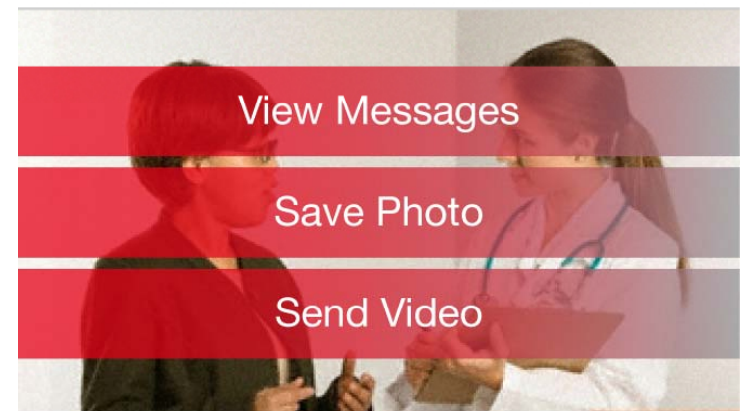


Two-way video/voice messaging

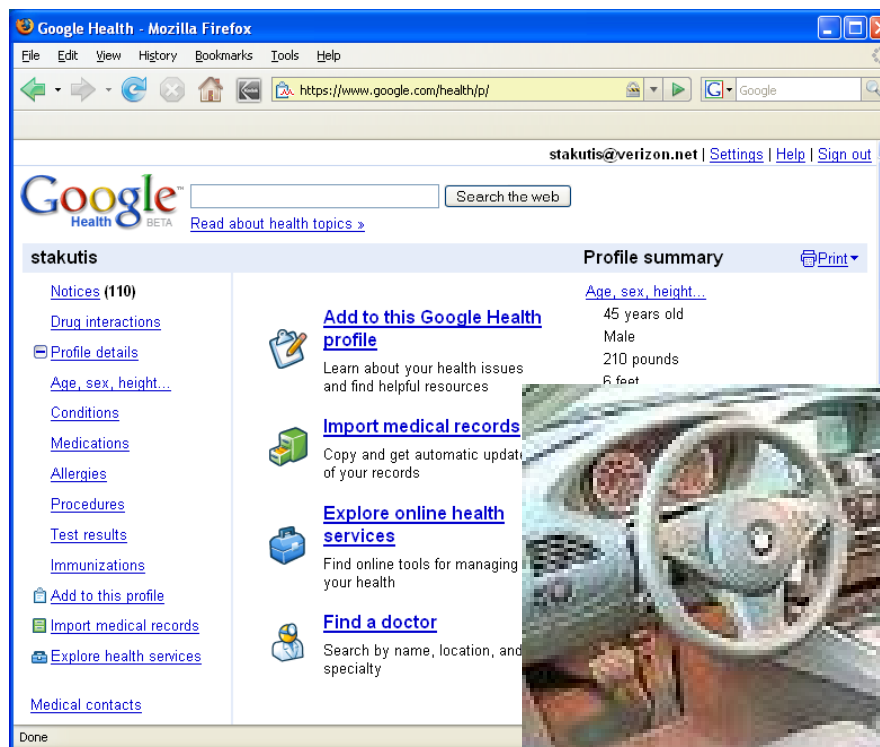
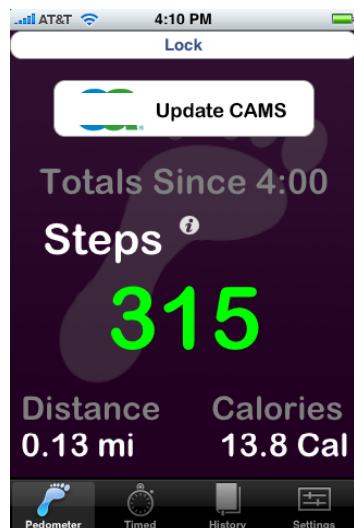


Still and video messaging
Innovative voice messaging

clinical messenger



Other “Creative” devices/applications




Creative devices


- Apple iPhone “Pedometer” app integrated into CAMS for activity/energy monitoring.
- Google Health; CAMS will automatically update GH accts.
- BMW (in process) interaction.
- Robo “heads” (in process) (Intuitive Automata)



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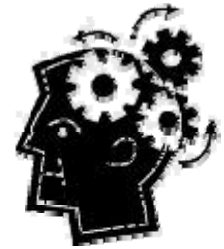
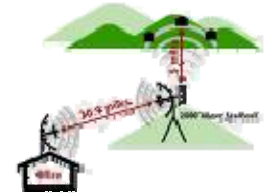
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Holistic Health Management

Manage the WHOLE person.
Utilizing clinical devices.
Utilizing athletic devices.
Utilizing social devices.
...Together.



Your Health, Your Way. Data everywhere!