

Patient Engagement & Technology

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About the Center for Connected Health



Division of Partners HealthCare IS organization

Our interest is in the use of technology to deliver care remotely

Benefits include improved engagement/outcomes/communications

Connected Health Benefits

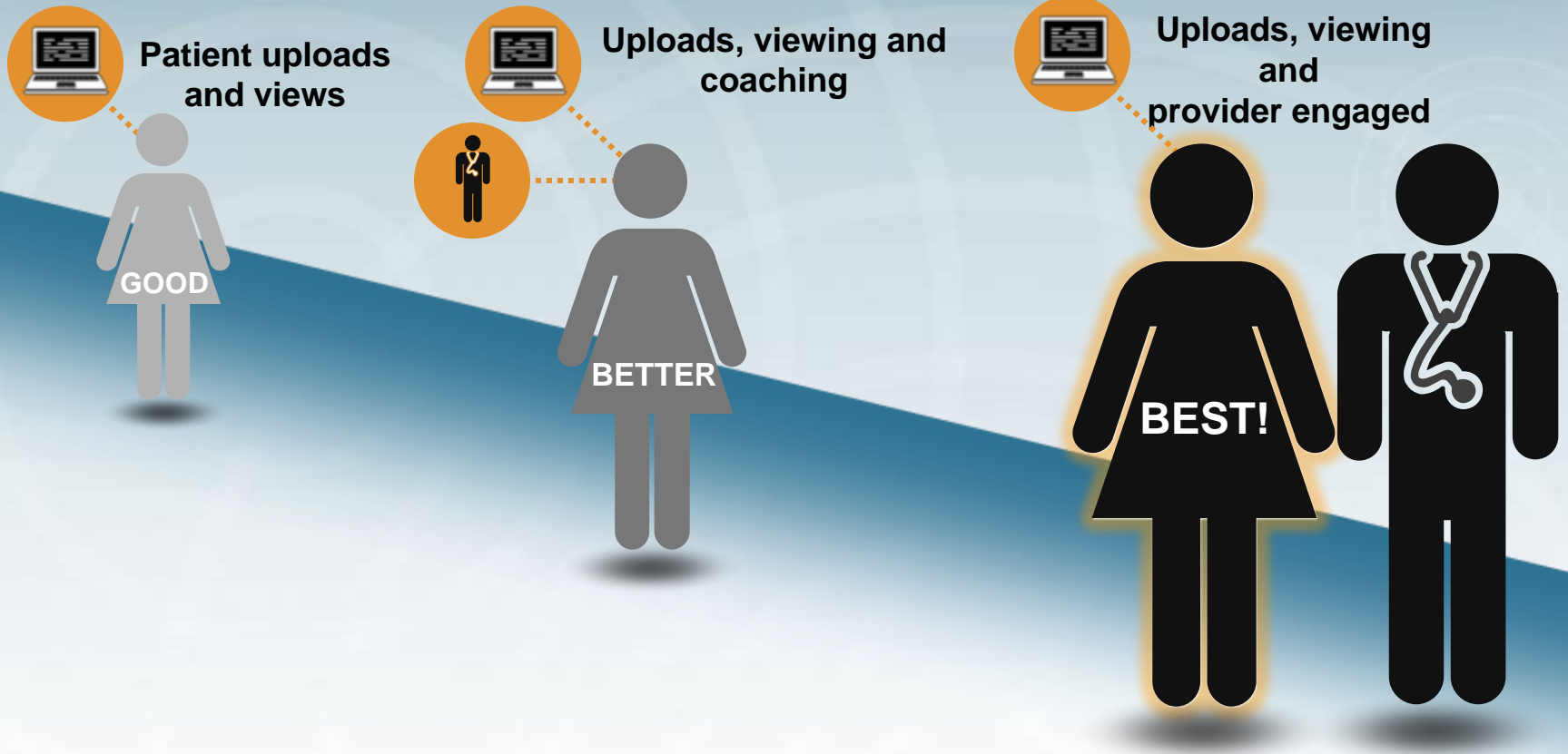


Access

Efficiency

Quality

Engagement = Better Outcomes



Engagement = Better Outcomes



Patient uploads
and views



The Data-Driven Life

“When the familiar pen-and-paper methods of self-analysis are enhanced by sensors that monitor our behavior automatically, the process of self-tracking becomes both more alluring and more meaningful.

Automated sensors do more than give us facts; they also remind us that our ordinary behavior contains obscure quantitative signals that can be used to inform our behavior.”

- Gary Wolf, April 26, 2010

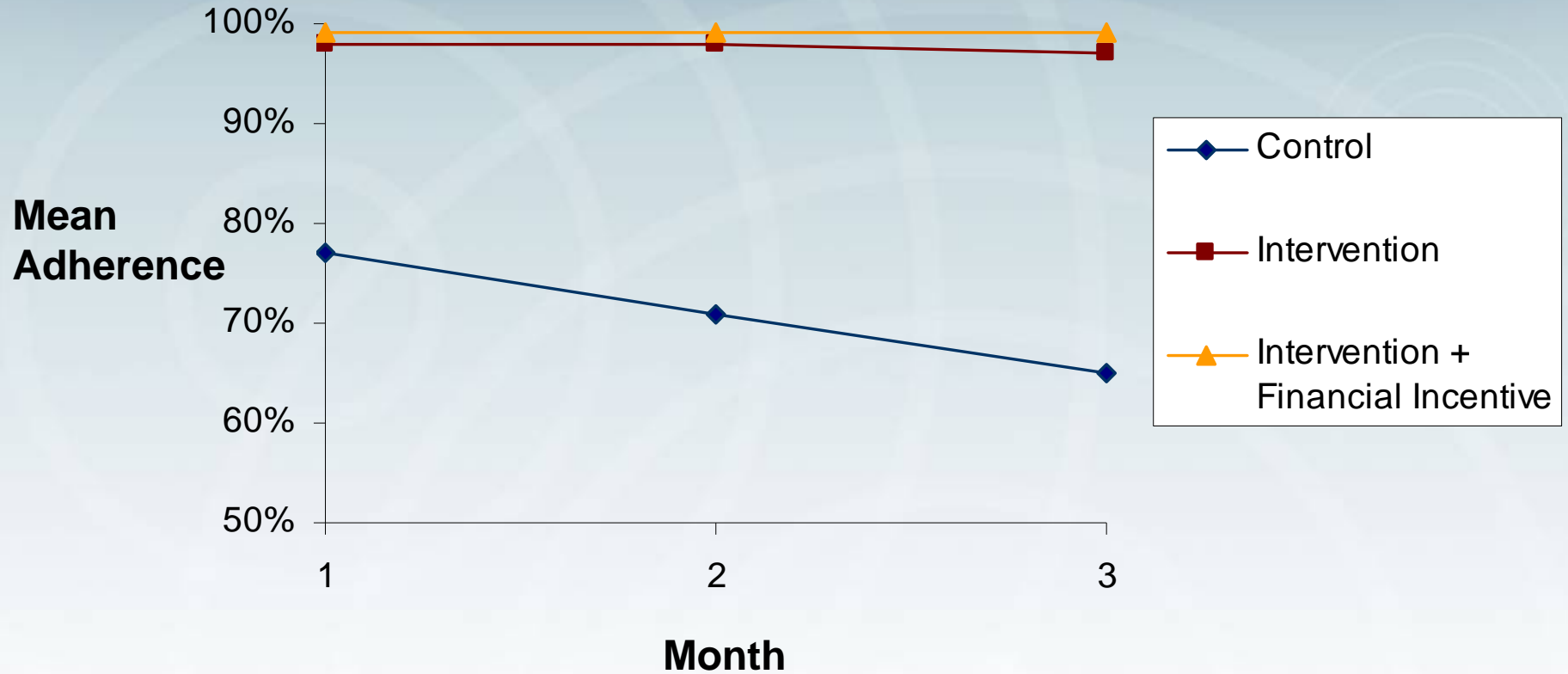
The New York Times



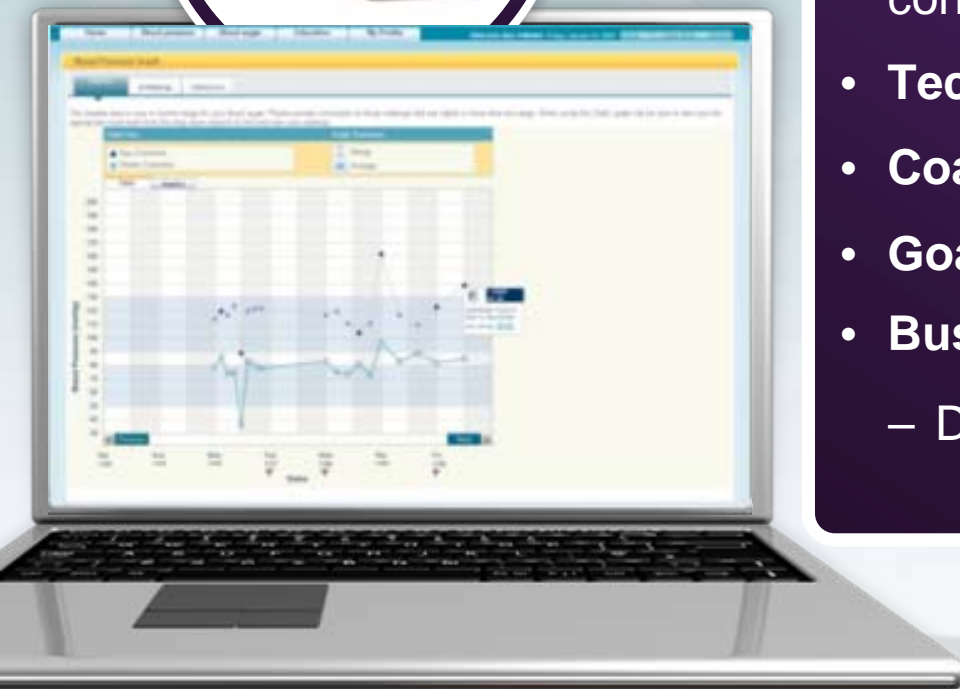
Medication Adherence



Glowcaps - 3 Month data analysis



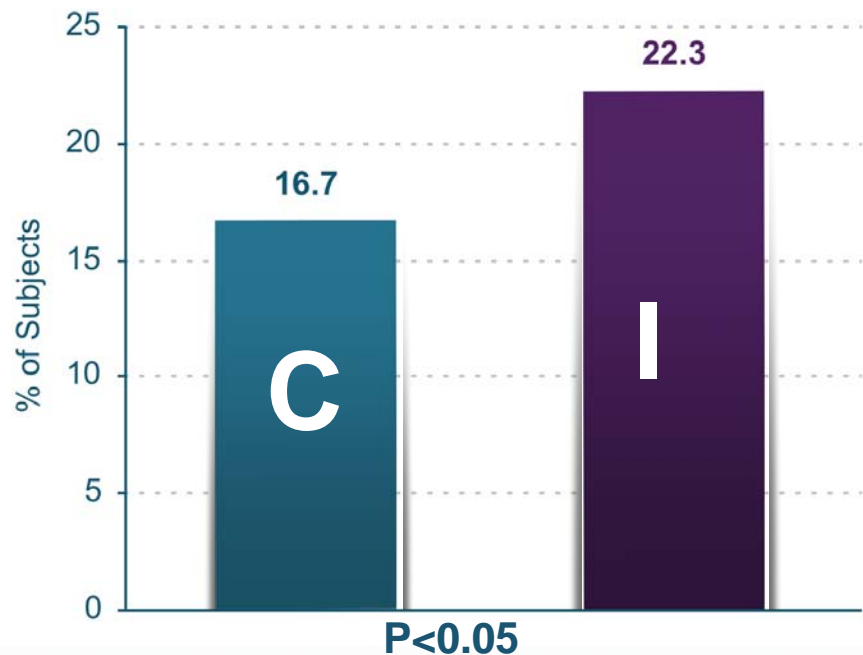
SmartBeat



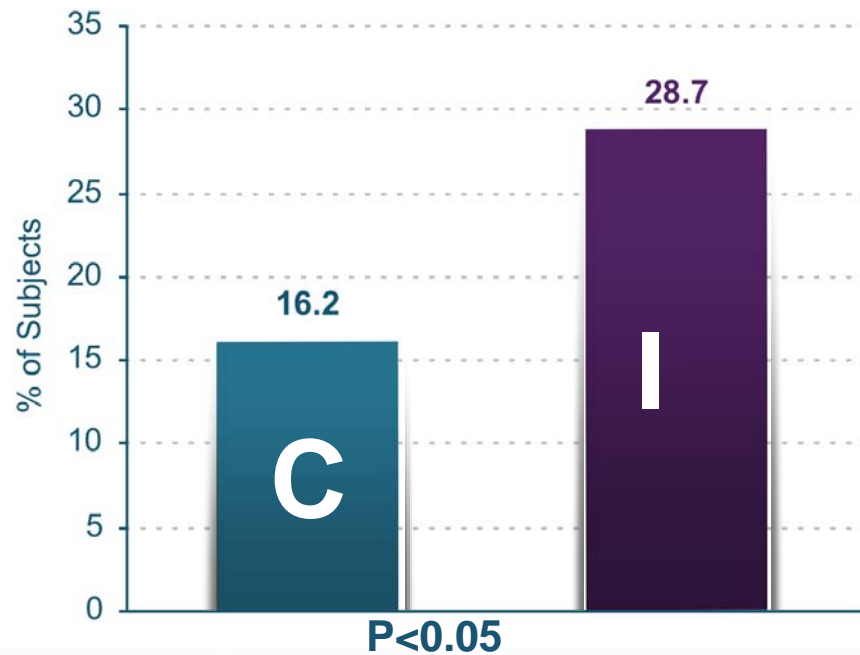
- **Population:** Newly diagnosed or difficult to control hypertensives
- **Technology:** bp cuff, gateway, web interface
- **Coaching:** automated messages
- **Goal:** improved control
- **Business justification**
 - Decreased downstream complications

Decreases in Blood Pressure from Self Monitoring

Proportion with 10mmHg or greater drop in SBP



Proportion with 5mmHg or greater drop in DBP





Hea!thrageous™

Connected Personalized Health

A New Company launched by
The Center for Connected Health

Supporting every day decisions about my health . . .

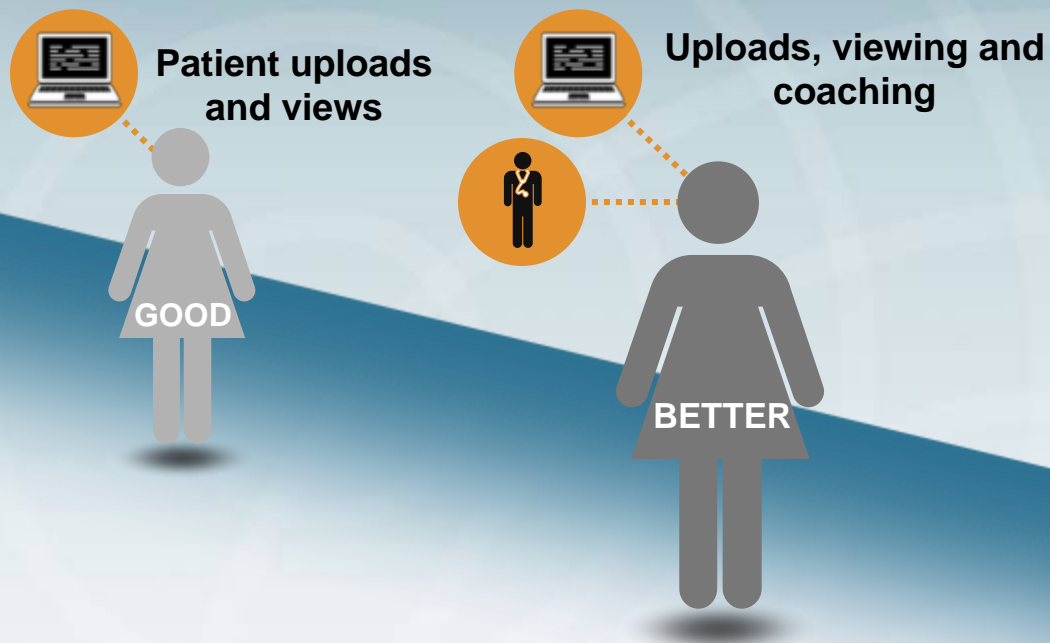
Device Agnostic

Intelligent Platform

End User's Preferred Interface



Engagement = Better Outcomes



The Power of Activity & Coaching

1. Wearable monitor records subject's activity levels



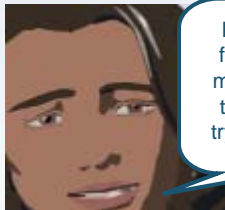
2. Activity data sent wirelessly to central server

Poor adherence



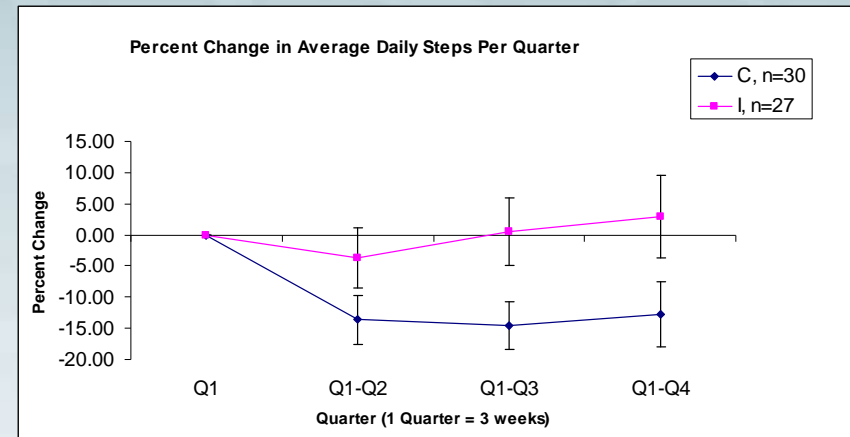
Good adherence

3. Personalized coaching to improve adherence to activity regime



I'm sorry you've found it tough to meet your targets this week. Let's try and work out a solution.

You've done a great job this week! Let's review the calories you've burned.



The Impact of Social Networks

CureTogether Already a member? [Sign in](#)

manage your (own) health
so you can feel better, faster.

"Innovative" [business week](#) "Fascinating Stuff" [books](#) [blogs](#) "Empowering Patients" [websites](#)

Check Your Symptoms
Easily enter data. See which conditions best match your symptoms. Explore what might be making your symptoms worse. Find out what makes you different.

Choose Treatments
See everything people are using to treat your condition. Discover which treatments are most popular, and which work best for people like you.

Track Your Progress
Learn how to run experiments on yourself. See exactly what effect new treatments or dietary changes are having on your body. Optimize your health with better data.

Connect With Peers
Find people who share multiple conditions with you. Learn from those who have been there. Leverage the experience of others to make better decisions for yourself.

It's anonymous and free.

To join, just enter your email:

No spam - we're here to do good.
9950 members have joined

NIKE+ RUN CLUB

Get connected to your running experience. Make your runs. Track your progress.

Compare Distance Time Run Walk

NIKE+ RUN CLUB
4.5 mi 0:35:12 100

My Runs Products Community Sport Music Support

patientslikeme Log out as Lisa

Patients Treatments Symptoms Research

Find Patients Just Like You

Do you have a life-changing condition? Learn from the real-world experiences of other patients like you.

Join Now! (it's free!)

CURRENT DISEASE COMMUNITIES

- Prevalent Diseases
- ALS/MSD
- Epilepsy
- Parkinson's
- Chronic Fatigue Syndrome/ME
- HTLV/ADHD
- Mood Conditions
- Anxiety
- Bipolar
- Depression
- OCD (Obsessive-Compulsive Disorder)

See how PatientsLikeMe can help you take control of your health:

Share your health profile

Answer simple questions to create a shared health profile to see how you're doing over time.

Find patients like you

Search by gender, age, treatment, symptoms, and time since diagnosis to easily connect with patients like you.

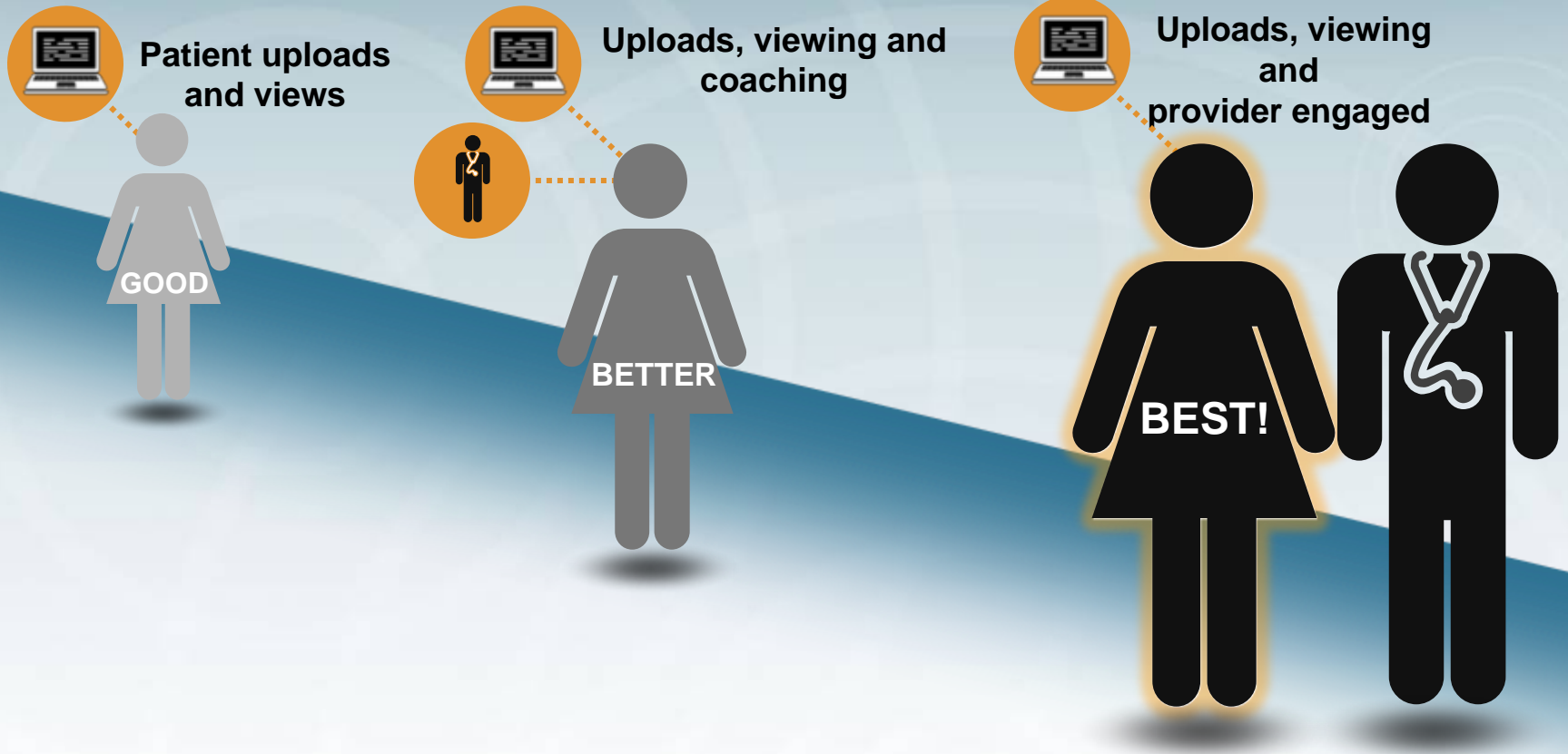
Learn from others

Learn from real-world treatment and symptom reports, forum discussions, health profiles, user-to-user conversations and more.



ConnectedHealth

Engagement = Better Outcomes



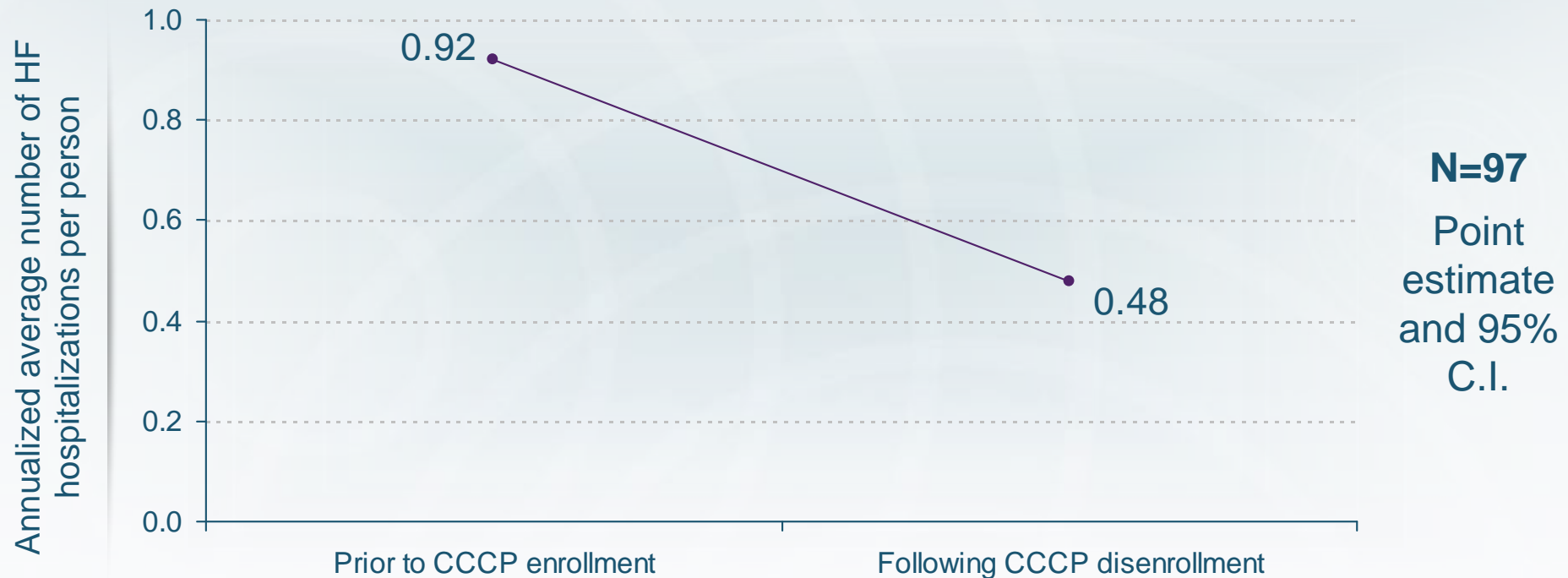
Connected Cardiac Care

Heart Failure Monitoring



- **Population:** CHF
- **Technology:** Blood pressure, oximeter, weight, touch screen device
- **Coaching:** telemonitoring nurse
- **Goal:** decreased readmissions
- **Business Justification:**
 - Better bed management
 - Lower cost of care

Impact of CCCP On Average Number of HF Hospitalizations Per Patient



Patients enrolled in the CCCP program had significantly fewer HF Hospitalizations after the program than before

Diabetes Connect



- **Population:** A1c>8, requiring relatively frequent glucose testing
- **Technology:** glucometer, gateway, web interface
- **Coaching:** diabetes educator or nurse in the practice
- **Goal:** improved control
- **Business justification:**
 - Meet P4P targets
 - Decreased downstream complications

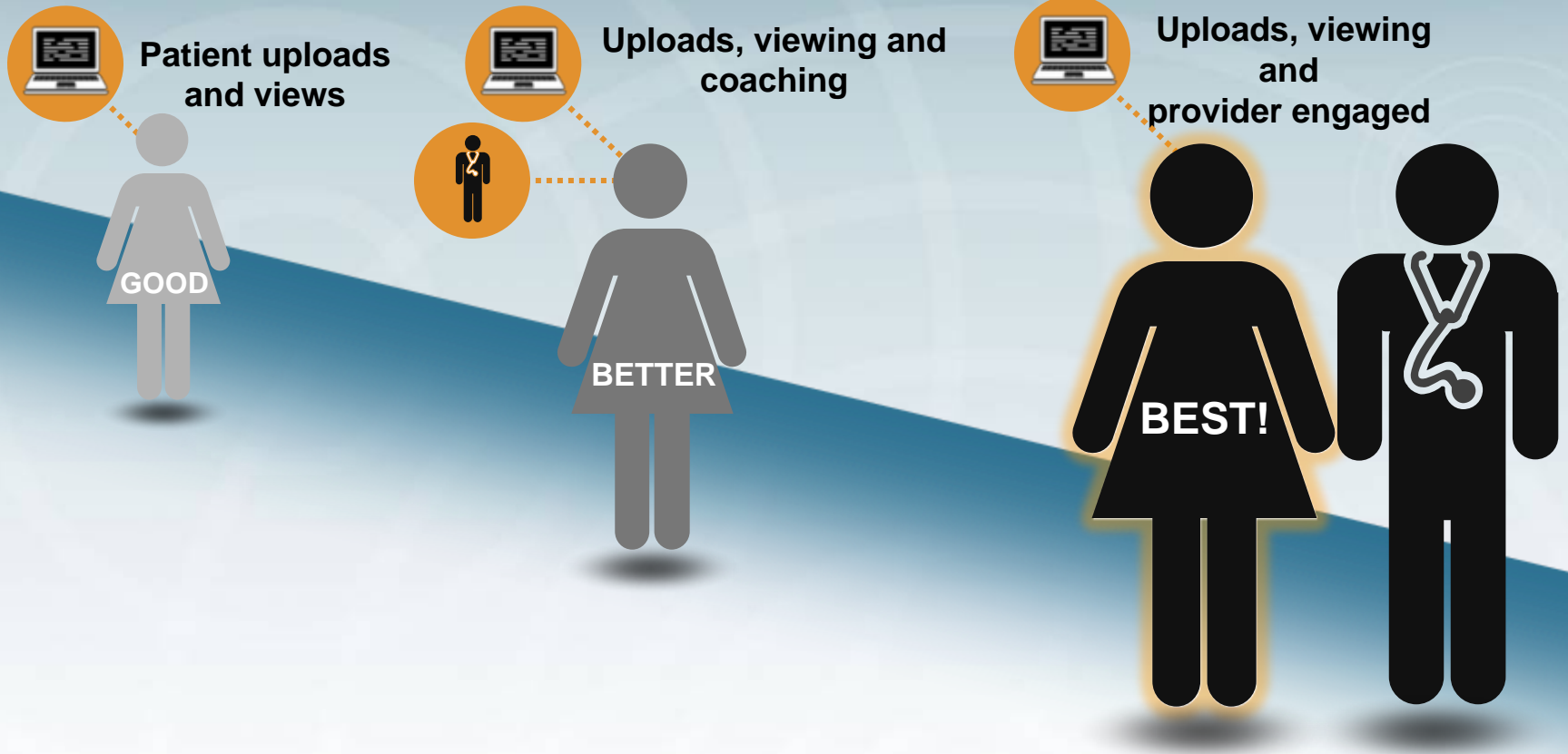
Diabetes Connect – Engagement in Two Dimensions

Updated 6.10: 91 patients

	PRACTICE 1	PRACTICE 2
Avg. change A1c - total	- 0.80	- 1.5
Avg. change A1c – active patients only	- 0.7	- 1.8
Avg. change A1c - Non-active patients only	- 0.9	0.4
Provider logins/month	1	7

Change in A1c based on data before (up to 2 months before) enrollment and 3-6 months after enrollment start date. Not all enrolled patients had recent A1c data in their records.

Engagement = Better Outcomes



A forum where fresh ideas get analyzed . . .

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2010 Connected Health Symposium

October 21-22, 2010

Park Plaza Hotel & Towers, Boston, MA



The Way Forward: Reform's New Focus on Health and Wellness, Independent Aging, Chronic Condition Self-Care and the Tools That Support Them

At this year's Connected Health Symposium, we map the way forward. As gridlock threatens elsewhere, the responsibility for driving change falls directly to us -- the patients, payers, physicians, hospital leaders, entrepreneurs and IT execs who experience healthcare every day. Please join us in Boston in October. Together we'll discuss and debate the means of moving care beyond the hospital and clinic and into the day-to-day lives of those who need our help.

[Register Now](#)

Ways to 'Connect'



www.connected-health.org - 760 visits/day

Monthly Newsletter - 30,000 contacts

LinkedIn Group (Connected Health Community) – 3,300

Contact Me – jkvedar@partners.org



The cHealth Blog
chealthblog.connected-health.org