



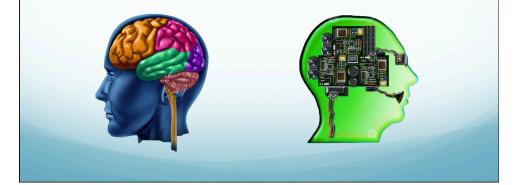
What is the problem?

According to the CDC, chronic, behaviorbased diseases account for 86% of healthcare costs.

Despite high intervention engregement and study retention, the inclusion of behavioral principles and tools in both interventions, and weight loss in all treatment groups, CP did not lead to weight loss, and PC did not lead to set late the set lead to weight loss, and PC did not lead to set late the set lead to weight loss, and PC did not lead to set late the set lead to weight loss, and PC did not lead to set late the to control. Observe, volume 23, issue 11, pages 2134.

How can a product affect behavior?

Behavior change is based on psychology, not technology



How can technology *help people* change behavior?

- Education
 - Understand existing behavior(s)
 - Help learn how to achieve desired behavior(s)
- Compliance
 - Memory assistance and reminders
 - Encouragement
- Feedback
 - Data → information → knowledge → wisdom → actions
 - Results and outcomes to collected wisdom
- Carrot/stick
 - Gamification
 - Escalation for non-compliance



Everybody *wants* change but nobody wants *TO* change

• We need to make a real psychological change for behavioral change to be a long term success

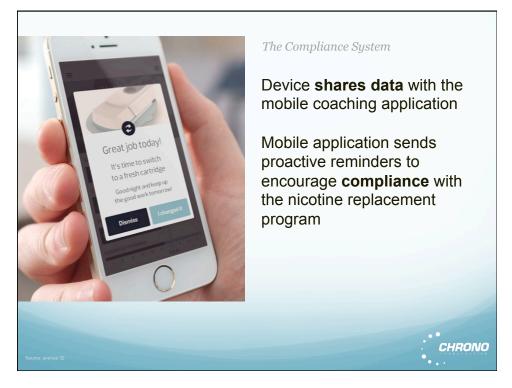
- Why should <u>l</u> want to change: extrinsic vs intrinsic motivation
 Rewards
 - Insurance incentives (premium differentials)
 - Individual and group components
 - Personal experiences very powerful
 - Death/illness of a loved one or friend
 - Success stories the more personal the better
 - Fun & challenge
 - Game theory
 - Social networking
 - Negative reinforcement (seldom results in long term benefit)
 - Insurance disincentives
 - Scare tactics

Is mHealth the answer?

- mHealth provides a set of tools
 - Wireless sensors make gathering information easy
 - Mobile platforms allow for rich user experiences and ubiquitous communications
 - Cloud computing and big data bring prediction and 'intuition' for feedback, encouragement and escallation
 - Opportunity to bring it all together with personalized, tailored, real-time feedback to reach behavioral goals
- Platform for implementation of behavioral change









Is Gamification the Holy Grail?

- Immediate, noticeable feedback and results get people to stick with behavior change
- Gamification is another tool...
- Different people respond to different incentives: competition, social pressure, rewards, penalties, ...
- It can be tailored/adapted for the individual for behavioral change in chronic disease management

What will it take to be successful?

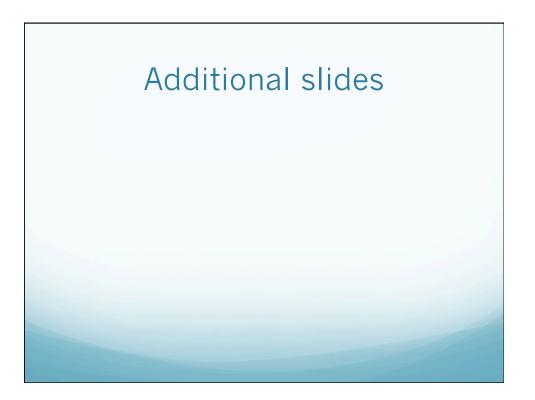
- Address real issues it is often difficult to predict, understand and accept reality, but critical
 - Diagnosis
 - Disease management
 - Behavioral change
- Produce actionable information, not data
- Address Psychology, not implement Technology
- Recognize extrinsic vs intrinsic motivation
- Understand sustainable revenue model
- <u>Affect behavioral change</u>

What I'll be watching for today...

- What is mHealth?
 - Digital Health
 - Telemedicine
 - Home Health
 -
- How can the consumerization of healthcare affect delivery?
- How does Psychology factor into the Technology solutions? How can it affect behavior?
- Who will pay?
- Privacy/security concerns?

Enjoy the conference!

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So this is new, right?

- Well...
 - Pacemaker (Trans-Telephonic Monitoring)
 - Telemedicine
 - Remote monitoring
 - Telehealth
 - Home health
 - mHealth
 - Digital Health ...
- What **is** different?
 - Ubiquitous communications platforms
 - Internet
 - Smartphones
 - Ubiquitous wireless connectivity
 - Low power
 - Low cost



Case Study NOVU

- Customer engagement and rewards platform
- Digital health (web based) comprehensive set of wellness tools designed to make healthy choices easier
 - Community, challenges
 - NCQA-certified programming and Health Assessment
- Rewards
 - A compliant, multi-channel rewards program that turns benefit into strategy
 - Dynamic reward options with flexible rules and activities
- Engagement & Loyalty
- Security
 - HIPAA-compliant
 - Secure, encrypted SaaS platform

