



Novel Strategies to Enhance Engagement in Self-Care & Support Service Providers

Dallas Swendeman, Ph.D., M.P.H.

Co-Director, Center for HIV Identification, Prevention & Treatment Services (CHIPTS)

Assistant Professor, Department of Psychiatry and Biobehavioral Sciences

David Geffen School of Medicine at UCLA

Affiliated Faculty, Department of Epidemiology, UCLA Fielding School of Public Health

UCLA

AIDS Institute

Center for AIDS Research

The Challenge of Self-Management

- What do clients and patients do between in-person visits?
 - ✧ 3 to 6 months between medical visits
 - ✧ 7+ days between mental health visits, group meetings, & behavioral intervention sessions
 - ✧ Critical days & hours between intensive interventions (e.g., outpatient drug treatment)
- “How did work toward your goal go?”

Mobiles: Always On, Worn, Connected



mHealth

Use mobile devices to enhance health and wellness by extending health interventions and research beyond the reach of traditional clinical care.

our actions

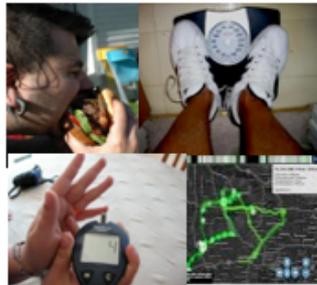


Photo: Marshall Astor, WWW

our self report



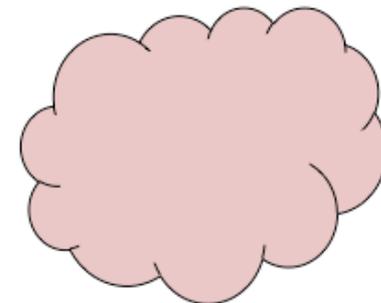
personal data repository



experience sampling streams
context and activity traces

aggregate measures, trends, patterns

event detection

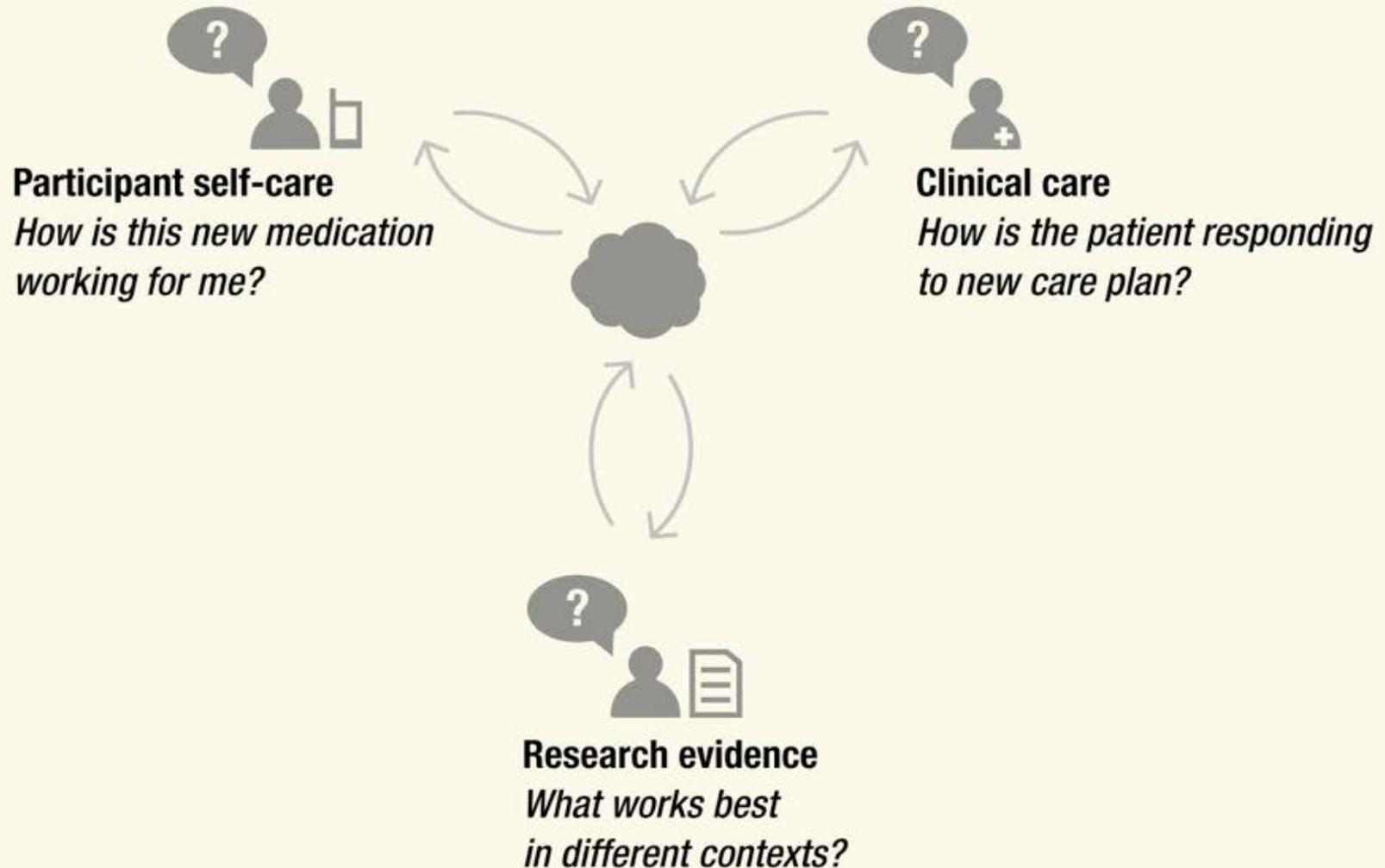


processing



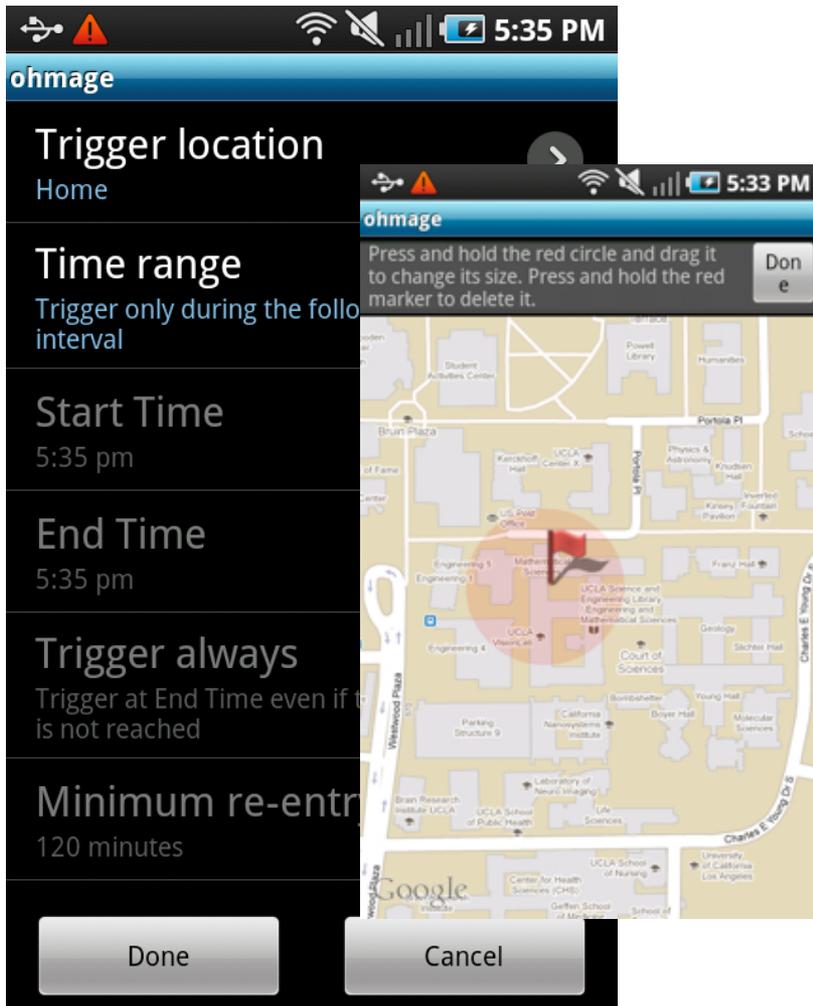
visualization

Driving with Dashboards: Data driven feedback loops

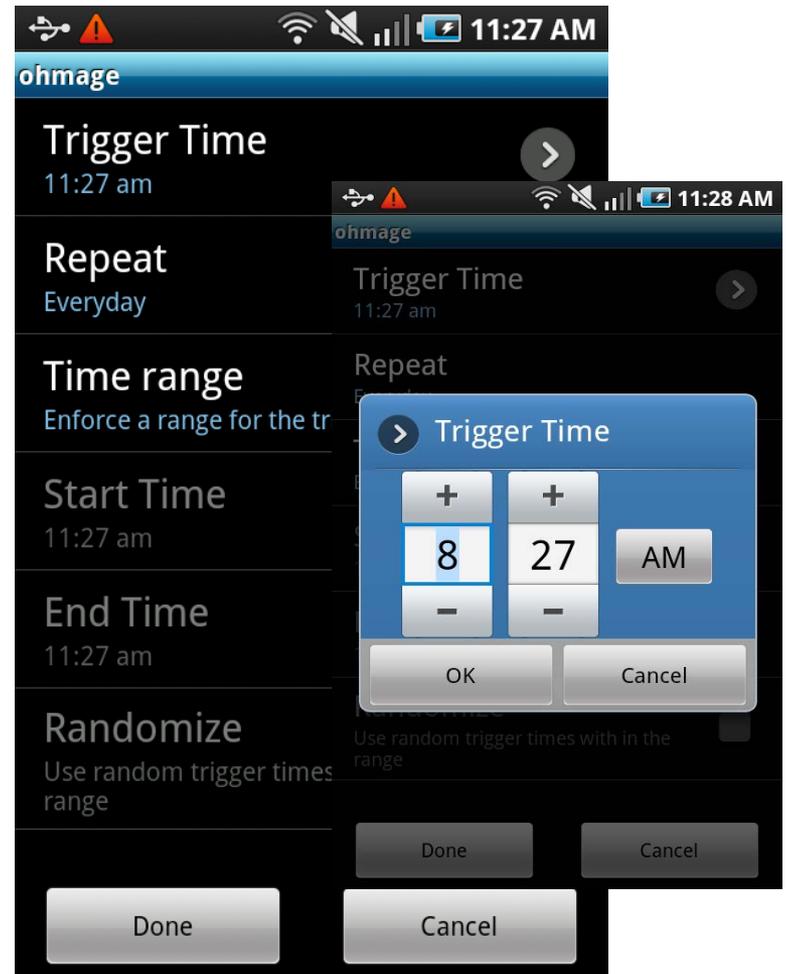


Smartphone Apps: Time, Location...

Location-based



Time-based



Behaviors, Coping Strategies, etc.

Ohmage MWF All Surveys

In the last 3 hours, have you used any of the following substances? (check all that apply)

- No, I did not use
- Meth
- Alcohol (4 or less drinks at one time)
- Alcohol (5 or more drinks at one time)
- Marijuana or other THC
- Other amphetamines or uppers
- Cocaine (other than crack)
- Crack
- Ecstasy

Ohmage MWF All Surveys

In the last 3 hours, have you had ANAL (top or bottom) or VAGINAL sex?

- Yes
- No
- Refuse to answer

Previous Next

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Ohmage MWF All Surveys

What type of sexual partners did you have ANAL or VAGINAL sex with, in the last 24 hours? (check all that apply)

- Primary, steady partner
- Casual or anonymous partner
- Exchange partner
- Refuse to answer

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Ohmage MWF All Surveys

What is the HIV status(es) of the sexual partner(s), in the last 24 hours? (check all that apply)

- HIV positive (partner told me)
- HIV positive (I think or guess)
- HIV negative (partner told me)
- HIV negative (I think or guess)
- I don't know
- Refuse to answer

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Affect, Symptoms, QoL, Triggers, Cravings

AT&T 1:59 PM

Ohmage MWF All Surveys

In the last 3 hours, have you been feeling SAD?

0 - No, not at all

1 - A little

2 - Somewhat

3 - A lot

4 - Extremely

Refuse to answer

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AT&T 1:58 PM

Ohmage MWF All Surveys

In the last 3 hours, have you experienced any of the following triggers to use meth? (check all that apply)

At a gym

Got some money

Saw my family

Saw a sex partner, an old boyfriend, or a fuck buddy

Saw or went to a sex venue (bathhouse, sex club, bookstore, park, tea room)

Visited hookup website (adam4adam.com, grindr.com)

Watched porn

Holiday (Halloween, NYE, Pride), Festival, or Party

AT&T 2:02 PM

Ohmage MWF All Surveys

In the last 3 hours, have you craved meth?

NO!!

no??

yes??

YES!!

Refuse to answer

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Self-Monitoring for Self-Management

- ***Awareness*** of feelings, symptoms, thoughts, actions, and patterns
- ***Behavior Change*** by reminder, mindfulness, or logging to track and motivate progress

Examples from study with People Living with HIV at AIDS Project Los Angeles

Medication Adherence

- **47%** reported **improved adherence** from smartphone self-monitoring
 - “**Keeps me on track** with taking my medicine.” (47, F, African-American)
 - “Helps me **take my medication on time**, and it helps me stay on track with not smoking.” (52, M, African-American)

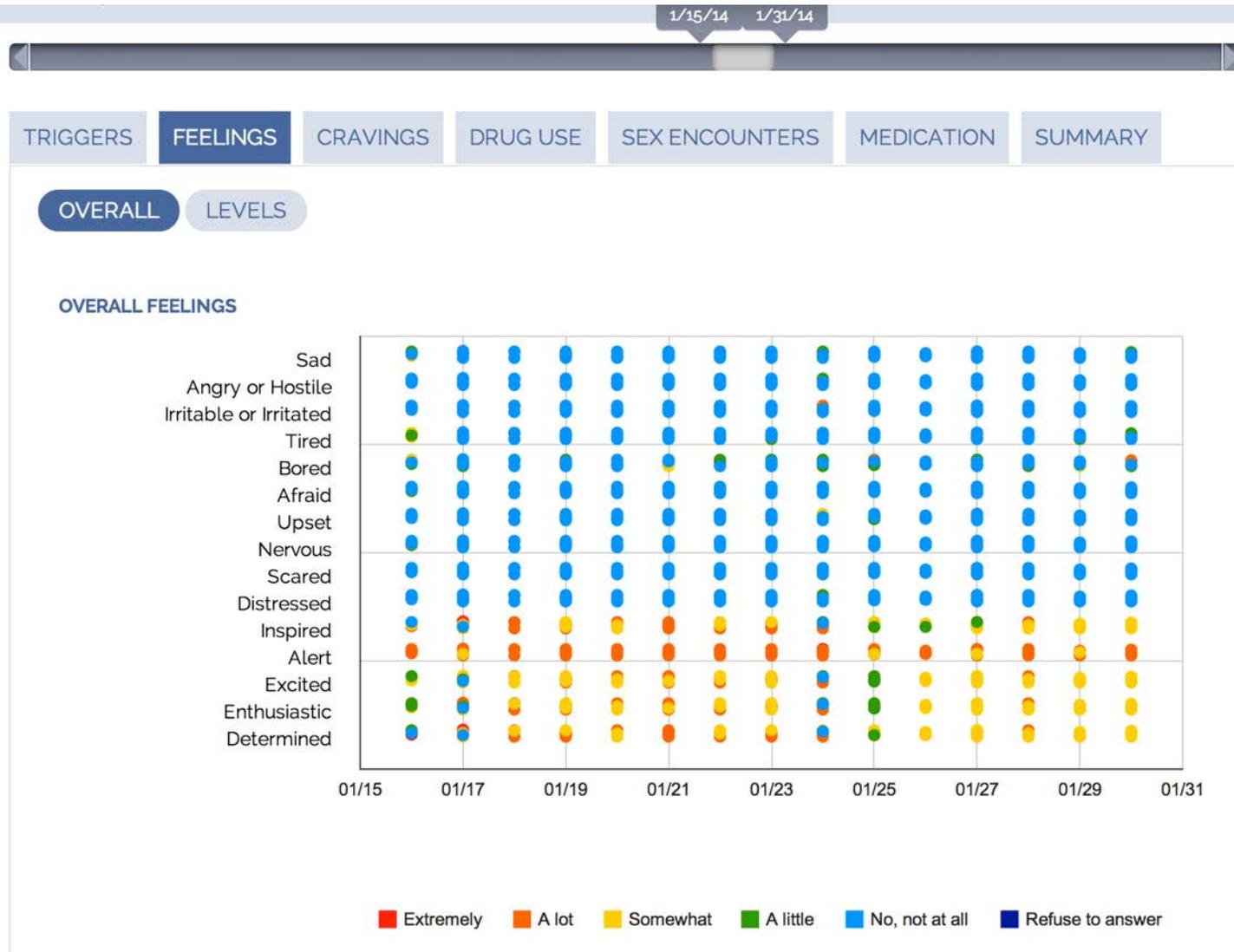
Stress and Mental Health

- **56%** reported **increased awareness**
 - “it was helpful to **keep track** of my moods and energy levels and **see how I was improving each day.**” (40, M, White)
 - “I didn’ t **realize how much I worried** about stuff (finances). I realized I worry about it every day.” (31, M, Latino)
- **29%** reported **therapeutic or cathartic benefits.**
 - “It helped me **handle my stress, moods, and emotions.**” (56, M, White)
 - “Nice to have an **outlet** to express myself. It takes a load off my back.” (38, M, Latino)

Substance Use

- **44% reported increased awareness**
 - “I saw that when I got bored, lonely, wasn’t feeling healthy, or thought about my illness, it triggered me to do drugs.” (49, M, African-American)
 - “**Helped me realize** that we usually smoked weed to get intimate.” (31, M, Latino)
- **6% reported substance use behavior changes.**
 - “**Helped me cut back on smoking cigarettes** because it made me think about exactly how many I smoked.” (35, M, White)

Dashboards for Providers & Patients



Ex., work with Dr. Cathy Reback at Friends Research Institute:
“Mobile EMA to Support MSM in Outpatient Methamphetamine Treatment”

TRIGGERS

FEELINGS

CRAVINGS

DRUG USE

SEX ENCOUNTERS

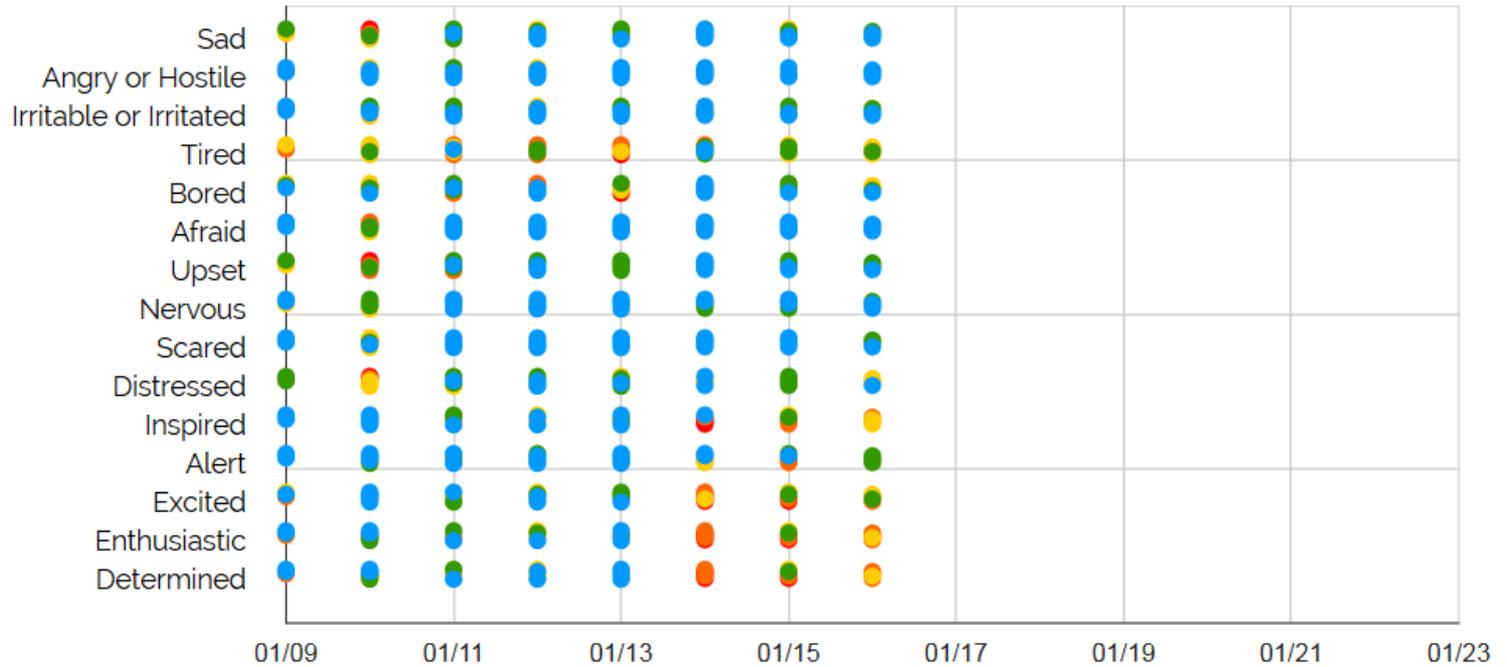
MEDICATION

SUMMARY

OVERALL

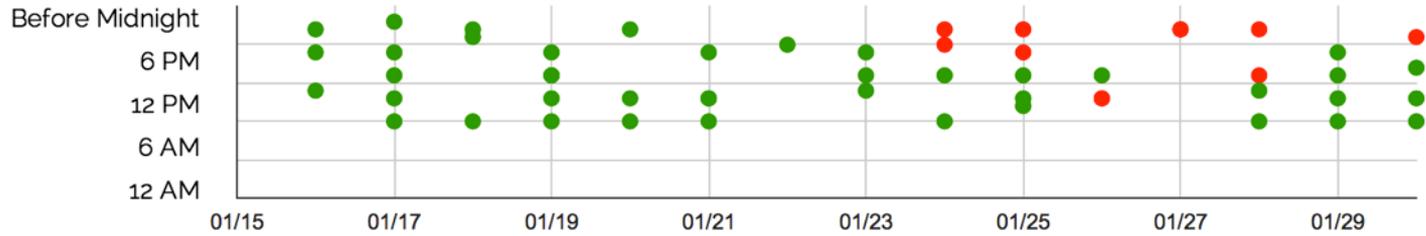
LEVELS

OVERALL FEELINGS

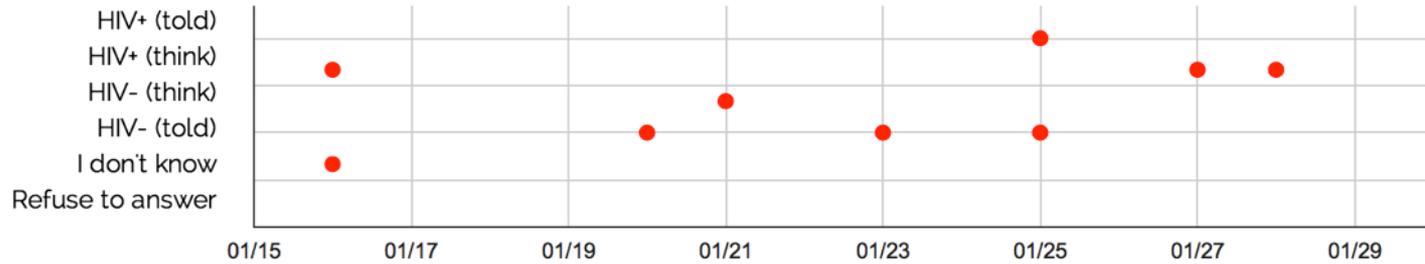


■ Extremely
 ■ A lot
 ■ Somewhat
 ■ A little
 ■ No, not at all
 ■ Refuse to answer

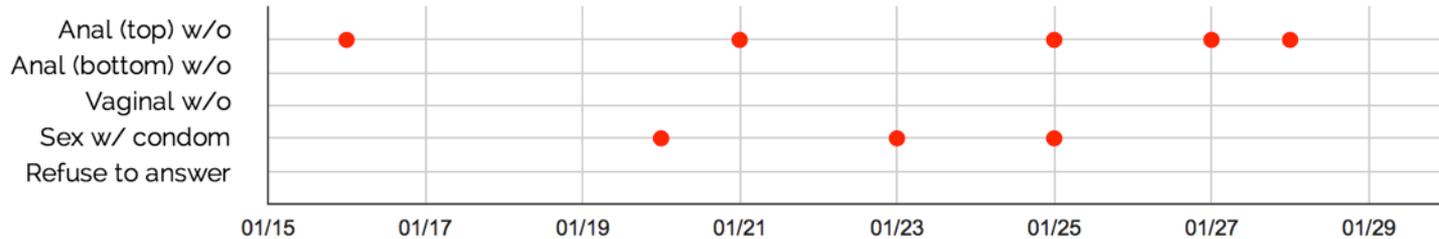
METH USE



SEX PARTNER HIV STATUS(ES)

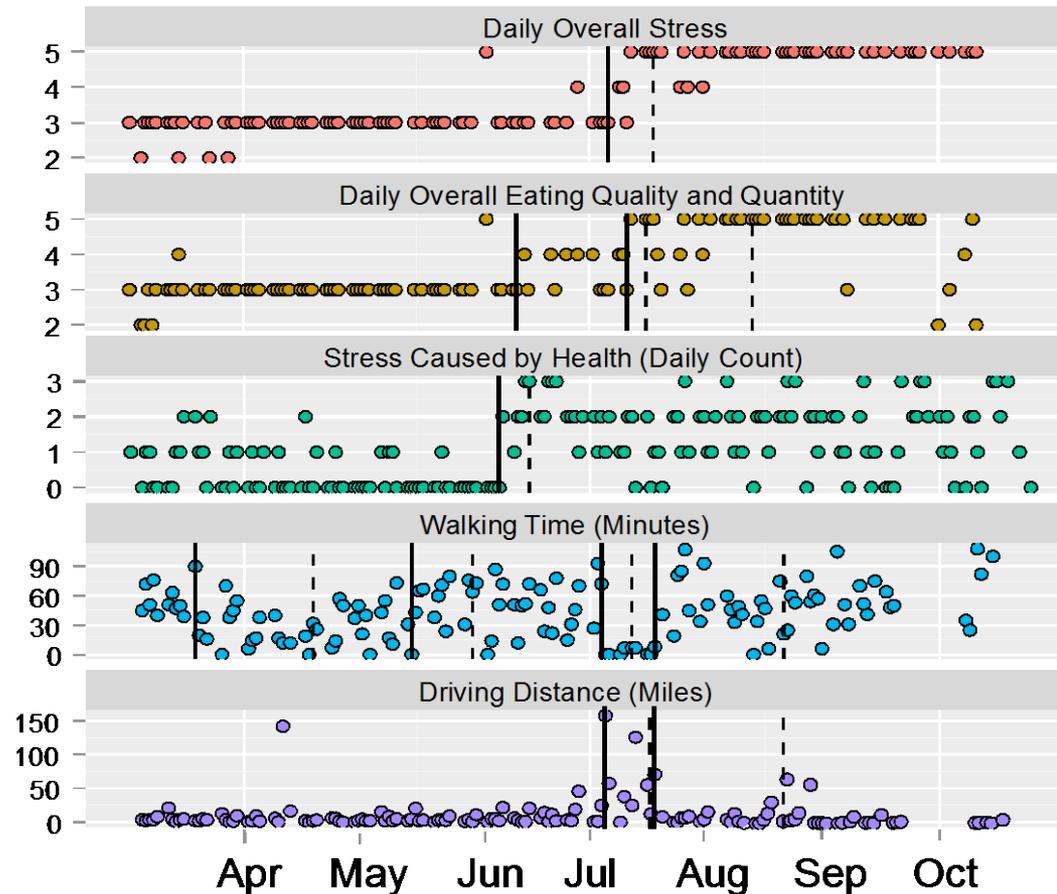


SEX ACTIVITIES AND CONDOMS



From APC 1 with Dr. Cathy Reback at Friends Research Institute:
“EMA to Support MSM in Outpatient Methamphetamine Treatment”

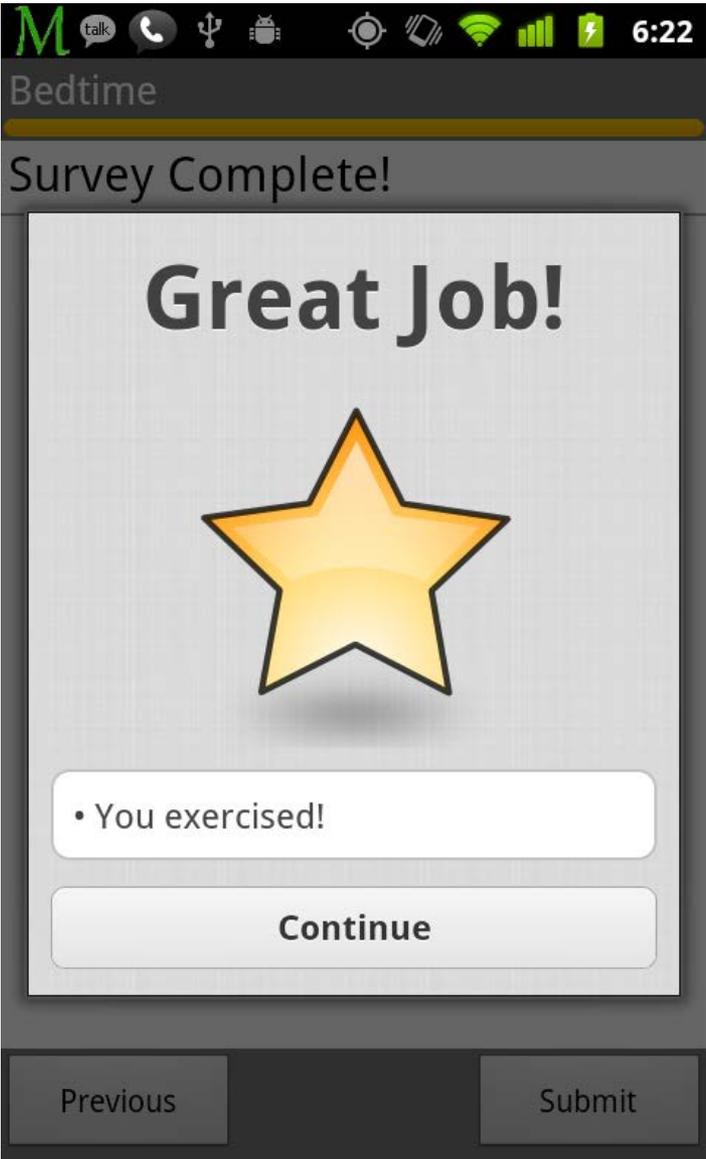
Life Streams – Pattern Change Detection



Lifestreams Dashboard: an interactive visualization platform for mHealth data exploration

Cheng-Kang Hsieh, Hongsuda Tangmunarunkit, Faisal Alquaddoomi, John Jenkins, Jinha Kang, Cameron Ketcham, Brent Longstaff, Joshua Selsky, Dallas Swendeman, Deborah Estrin, Nithya Ramanathan
University of California, Los Angeles, USA

Feedback to Patients/Clients, even Providers



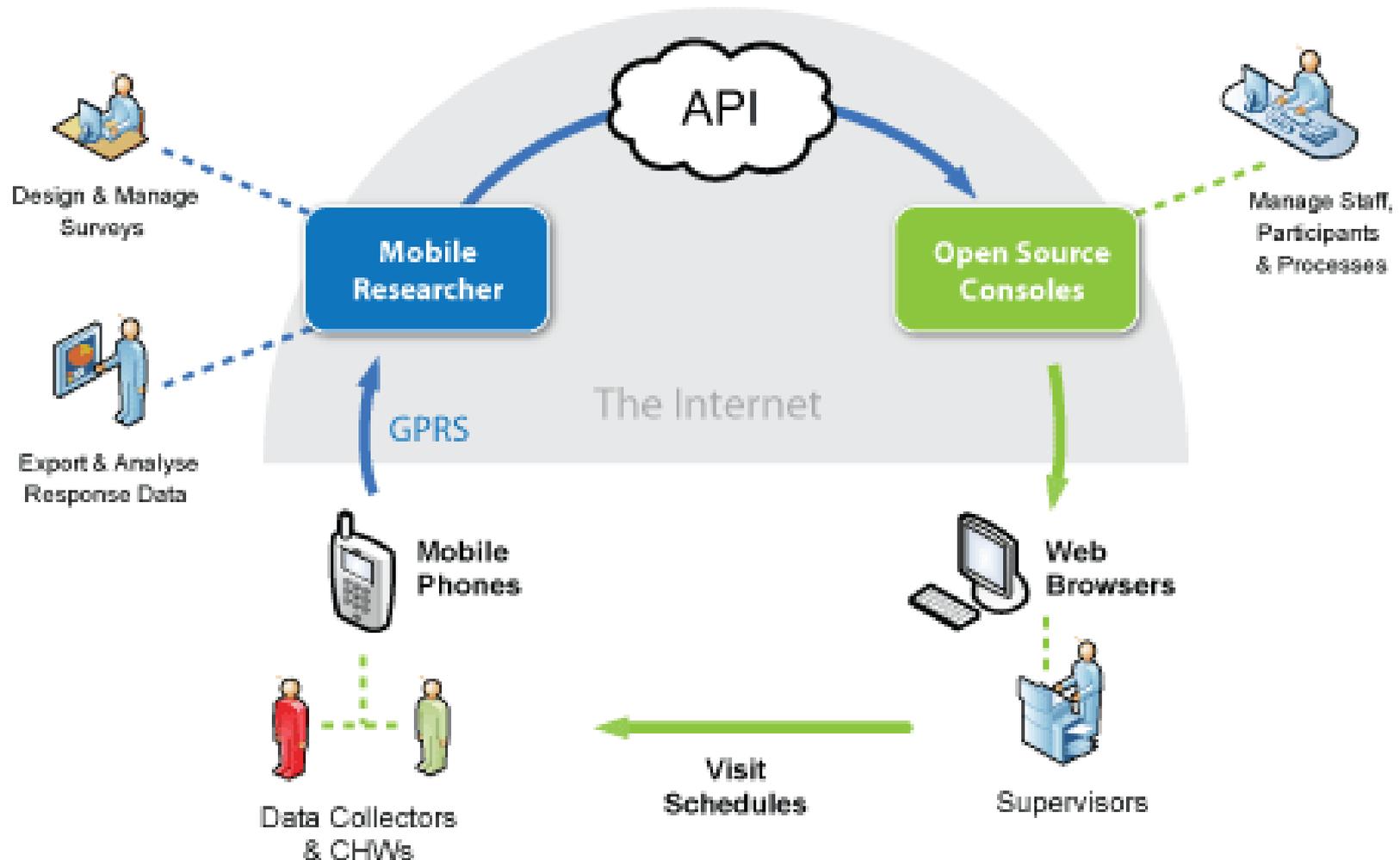
LAC DHSP Medical Care Coordination Acuity-Driven Service Intensity

Table 2: Minimum Service Delivery by Acuity Level

<u>MCC SERVICE ACTIVITY (MINIMUM)</u>						
<u>ACUITY LEVEL</u>	<u>Registration/ Screening</u>	<u>Re- Assessment</u>	<u>ICP</u>	<u>Brief Interventions</u>	<u>Ongoing Follow-Up</u>	<u>Case Conference</u>
<u>Severe</u>	<u>Every 6 months</u>	<u>Every 30 days</u>	<u>Every 30 days</u>	<u>Weekly</u>	<u>Weekly</u>	<u>Monthly</u>
<u>High</u>	<u>Every 6 months</u>	<u>Every 90 days</u>	<u>Every 90 days</u>	<u>Monthly</u>	<u>Monthly</u>	<u>Quarterly</u>
<u>Moderate</u>	<u>Every 6 months</u>	<u>Every 6 months</u>	<u>Every 6 months</u>	<u>Every 90 days</u>	<u>Monthly</u>	<u>Every 6 months</u>
<u>Self-managed</u>	<u>Every 6 months</u>	<u>n/a</u>	<u>n/a</u>	<u>Referrals as needed</u>	<u>As needed</u>	<u>n/a</u>

Protocol & materials: <http://publichealth.lacounty.gov/dhsp/MCC.htm>

Care Coordination & Case Management



Fieldworker Support



Durbar Mahila Samanwaya Committee

MISSION

Durbar's mission is to enhance a process of social and improvement of social status including quality of part of global movement to establish rights of

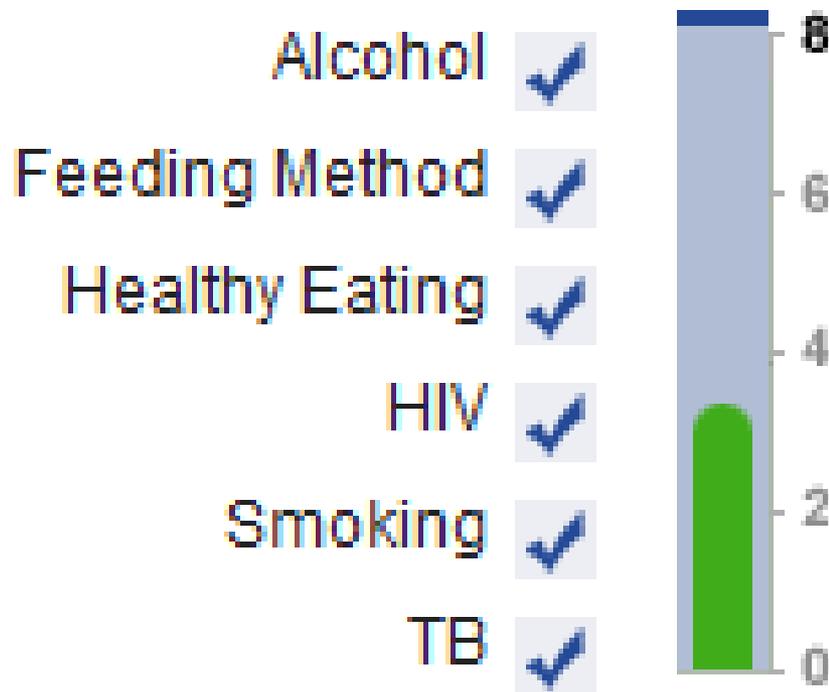
- 1) Improvement of image and self-esteem
- 2) Implementation of policies and practices
- 3) Political change in order to establish rights, dign



political change in order to establish rights, dign lives of all sex workers community of world marginalized people through original Communities. Integrating all levels

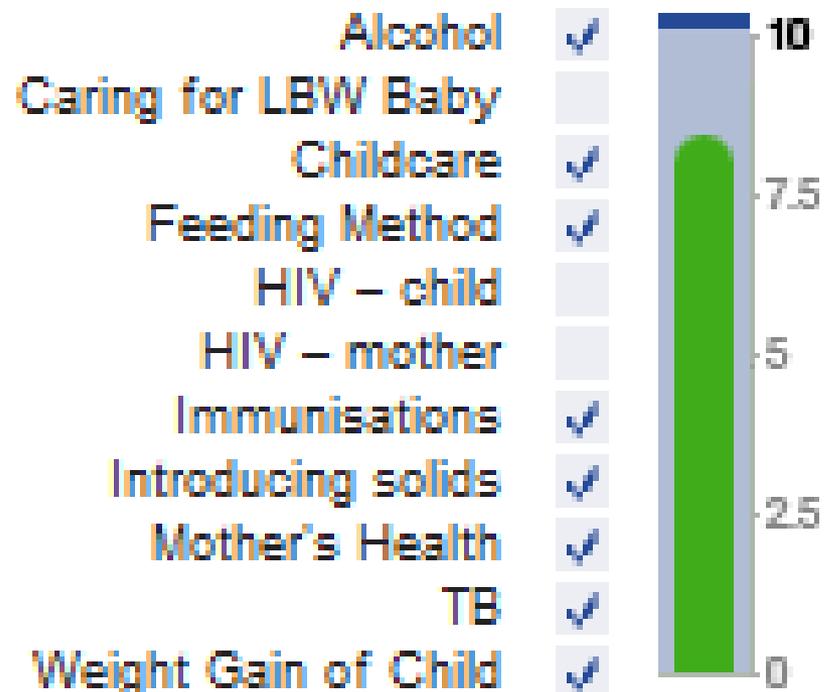
Fidelity Monitoring & Support for Intervention Deliverers (& Dose/Exp.)

Antenatal



4.9 / 8 Hours Remaining

Postnatal



1.9 / 10 Hours Remaining

Supervision & Support



Thank you

Dallas Swendeman, Ph.D., M.P.H.

dswendeman@mednet.ucla.edu

<http://chipts.ucla.edu/>;

UCLA

AIDS Institute

Center for AIDS Research