Designing HIV Counseling and Testing Programs for Outreach Settings: New strategies to reach high risk populations.

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When Designing Testing Programs Meet the Needs of:

Clients

Health Workers

Clinicians



CBOs

Health Departments

National

Agenda: Essential Questions for Outreach Programs

- Is mobile testing better at reaching the untested?
- What type of test is more acceptable, more effective and less costly?
- Should a rapid self-test be made available?
- Should face-to-face counseling be required?
- Can computer counseling be effective?
- Should we pay people to test?
- Does integrating HIV testing into a general computerized health assessment overcome HIV testing stigma?

Research Highlighted in Talk

Mobile Outreach:

Demonstration Project (Seattle CBO, N=2155)

Testing Options:

- Cluster RCT (Needle Exchange, Bathhouse, N= 80 days/site)
- Self-Testing Study (n=240)

Counseling Options:

- RCT (Face-to-face counseling vs. written brochure, N=290)
- CARE tool demonstration projects (Mobile outreach, Urgent Care, HIV+)
- Incentives: Demonstration Project

Integrated outreach programs:

India Health Box Pilot (focus groups 6 villages)

Mobile Outreach Better at reaching the untested?

Mobile Testing vs. Health Department Clinic Reaching Men of Color

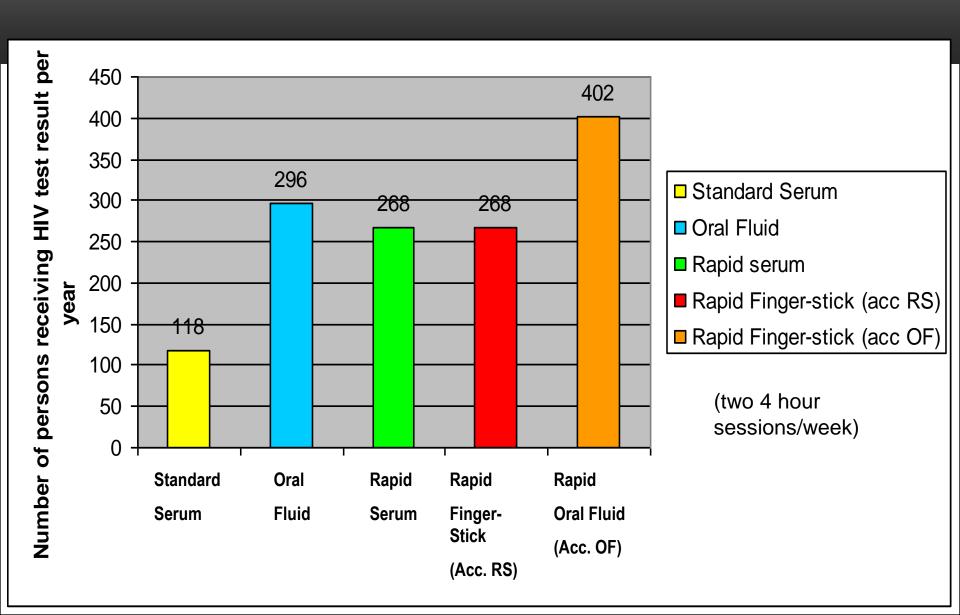
Characteristics	<u>CBO</u>	<u>HD</u>
MSM of Color	N=100 (%)	N= 239 (%)
Never Tested	28%	16%***
Age less than 20	16%	4%*
High School or less	44%	20%*
Unprotected Anal or Vaginal Sex (last test)	65%	54%
Unprotected Anal or Vaginal Sex (high,yr)	39%	18%*
Substance use (yr)	85%	29%*
HIV Positive	5(5%)	19(8%)

^{*} p< 0.001, *** p< 0.05

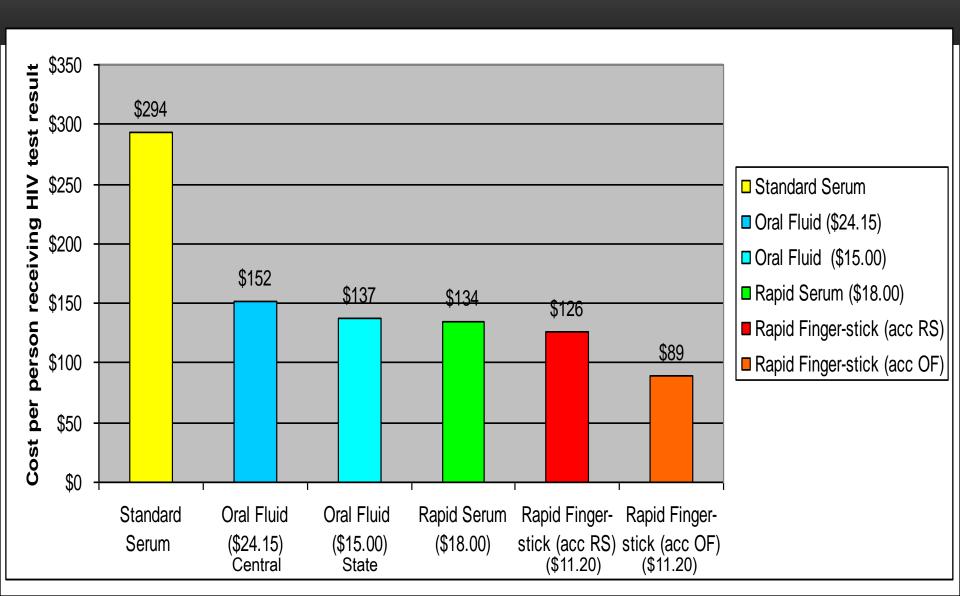
Testing Options

Which strategy is more acceptable, more effective and least costly?

Number of persons receiving HIV test results at NE/yr



Cost per person receiving HIV test result NE



Testing Options Should a rapid self-test be made available?

Public Health Risk vs. Benefit

- Risks
 - False negatives undiagnosed HIV
 - False positives negative emotional reactions.
- Benefits
 - Greater knowledge of HIV status decreased HIV incidence
 - Early treatment Decreased morbidity, mortality, economic and psychological consequences.

Will Over the Counter HIV testing Reach The Untested?

- Two survey studies among high risk (N=460, N=354), Seattle and San Francisco -OTC preferred by 20 to 24%^{1,2}
- OTC significantly preferred by people who had never tested.
- Qualitative research in India and South Africa, majority prefer self-testing due to stigma with clinic based testing
- In two self-testing studies: 1) Among 240 people with HIV, blinded accuracy was 96%; 2) Among 42 substance users, there were no false positive self tests, 5% were invalid and 95% were read correctly as negative. >60% preferred OTC over clinic testing.^{3,4}
- Home Specimen Collection (HSC) post marketing study 49% of 1494 HIV positive users had never tested before.
- OTC preferred 20 to 24 times more than HSC^{1,2}

Conclusion: It is likely that an OTC will reach a substantial number of people with HIV who have never tested before.

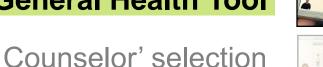
Counseling Options? Should face to face counseling be required?

Results: RCT in NE (N=290) Face to Face vs. Written Materials

- 56% preferred written materials before randomization
- No difference in longitudinal risk behavior at 2 months by randomization arm
- Those who received their preferred strategy were significantly more likely to lower needle sharing risks over time (OR=7.2, p=0.001)

Counseling Options? Can computer counseling be effective?

General Health Tool



Test consent

Tailored feedback

Skills videos



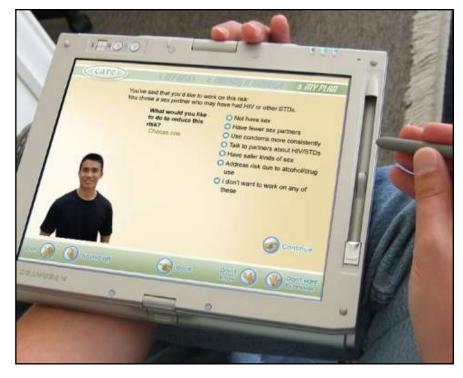












General Health Tool



Counselor' selection



Test consent



Tailored feedback



Skills videos







General Health Tool

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Tailored feedback

Skills videos















General Health Tool

Counselor' selection

Test consent



Skills videos















General Health Tool



Counselor' selection



Test consent



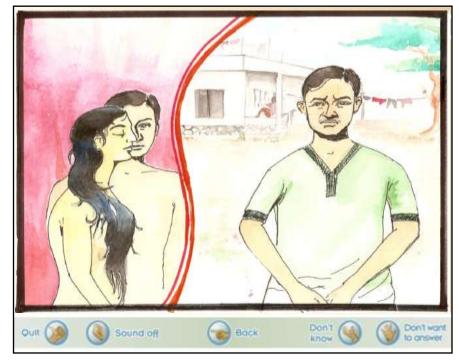
Tailored feedback



Skills videos







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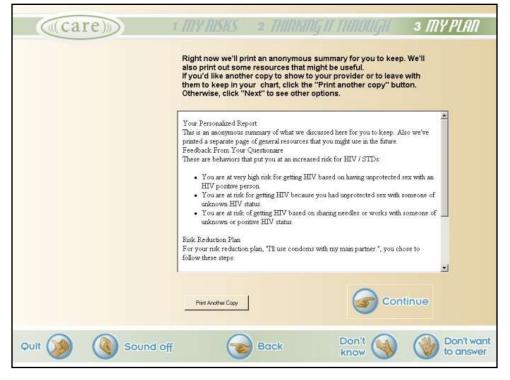












Impact of Computer-Assisted Testing

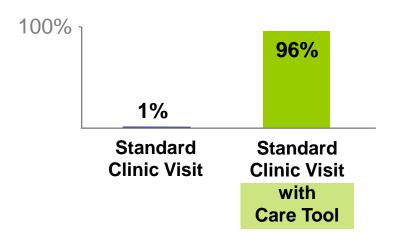
US Urgent Care

US Mobile Testing

US HIV Clinic

Knowledge of HIV Status

2007, RCT, n=239



Cost

50% less than cost of counselor-based HIV testing

Impact of Computer-Assisted Testing

US Urgent Care

US Mobile Testing

US HIV Clinic

Knowledge of HIV Status

2006-2007, Demonstration, n= 2155

- 2155 people received counseling and HIV results
- 31 new people diagnosed with HIV
- For first time required program data submitted on time for reimbursement

Cost

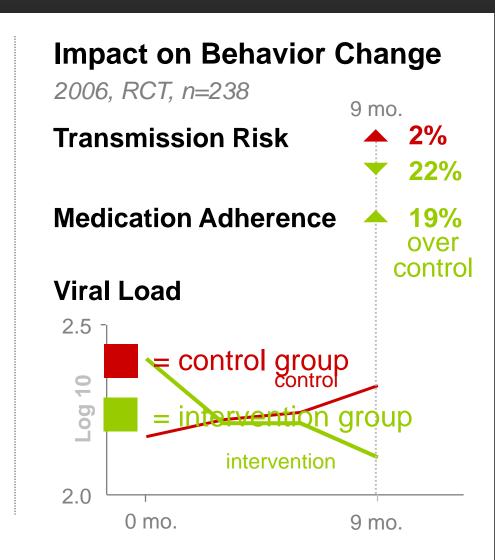
50% reduction in cost per test

Impact of Computer-Assisted Counseling

US Urgent Care

US Mobile Testing

US HIV Clinic



Incentives Should we pay people to test?

Incentives in Mobile Outreach

- Incentives may overcome stigma
- If staff costs are fixed, offering incentive may be cost effective
- Mobile Outreach Demonstration

No incentive (n=1199): Acceptance = 46%

\$10 incentive (n=465): Acceptance = 94%

Integrated Outreach Services

Does integrating HIV testing into general health care overcome HIV testing Stigma?

In Public Urgent Care in US

When HIV testing is offered through a slip of paper or through an HIV computer counseling tool:

Acceptance =15-16%

When HIV testing is offered through a general health care computer counseling tool:

Acceptance = 37%

What people say at a Kiosk in India:

- HIV testing is important but I will not go to a testing site because people will think I did something bad.
- If HIV testing is offered in the kiosk by itself no one would come.
- If computer counseling is offered for a general health assessment, and HIV testing is offered with Diabetes testing people would be lined up down the street.

Imagine a Health Outreach Worker ...



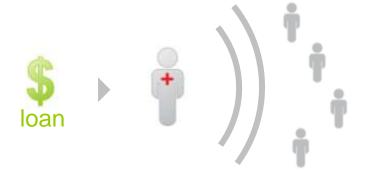


A comprehensive technology to guide health workers in:

- General Health Assessment
- Interactive Education
- Rapid Testing
- Algorithmic STI Treatment
- Triaged Referrals



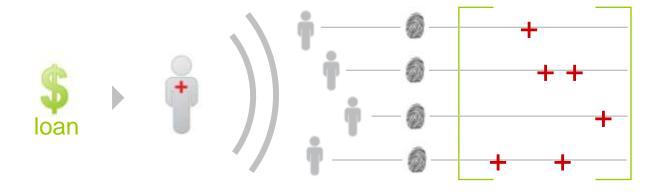
Health Worker receives a loan, training and HealthBox kit



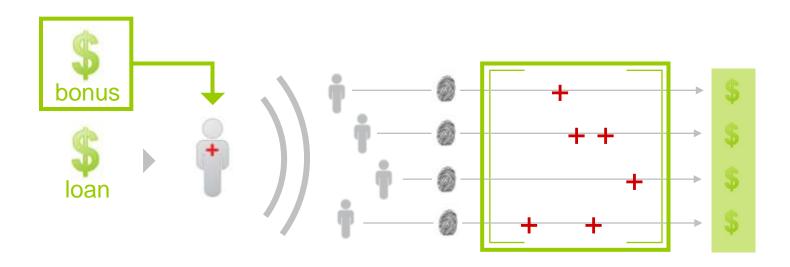
Health Worker offers free computerized general health assessment and health counseling to community



Finger print authentication for longitudinal care

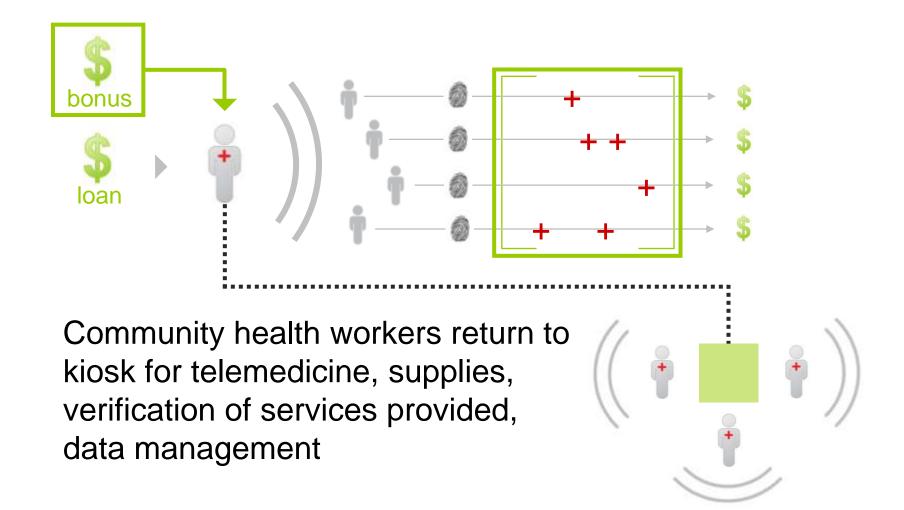


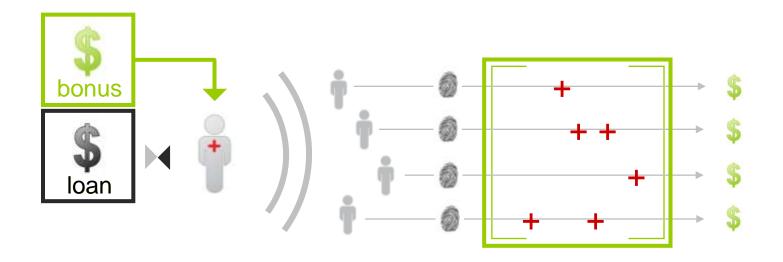
Tool is offered to provide for assessment, counseling, testing, treatment, product recommendations, referrals guided by IT tool



Clients self pay for tests, treatment, products not covered by government or donors.

Health Workers receive additional bonuses from global health donors for delivery of targeted services and connecting patients with chronic diseases to care.





Loans repaid overtime from income generated

Value Added

Needs met for:

Patients Convenient accurate counseling, testing,

care and referral

Health Workers Productivity based income, incentives for

connecting people with care

Health Systems Automated quality assessment and

evaluation data

Governments Surveillance data, healthy population, cost

effective partnership

Biotech Clinical trials could be offered through

network

Conclusions – Designing an Outreach Program to Reach the Untested

- Use mobile outreach and CHW to reach those who do not go to clinics.
- Offer rapid point-of-care oral fluid or finger-stick testing and consider providing the option of self testing.
- Provide risk reduction counseling choices such as computer counseling, videos, or written brochures in addition to face-to-face counseling for those at risk.
- Consider offering incentives when testing staff are not fully utilized and when stigma is high.
- Consider integrating HIV testing into a general health assessment that also screens for Hypertension and Diabetes in communities where stigma is high.

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