

Presenter

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Social science that makes a difference



Acknowledgements

- Some of the slides used in this presentation are based on similar presentations by Prof Geoffrey Setswe of the Monash South Africa to the HSRC Seminar Series on 23 November 2009 and Dr Olive Shisana of the HSRC to the SANAC Research Sector's Use of Resources for HIV Prevention Meeting held on 9 April 2010.
- A few additional slides are also based on Prof Geoffrey Setswe's presentation to the SBI Workshop which was in Durban on 31 March 2009 entitled *Is there evidence that social, behavioural and structural interventions work in reducing HIV/AIDS?*
- Finally, some of the information was obtained from the Global Health Literature Digest produced on a biweekly basis by UCSF Global Health Sciences (GHS) which is available on http://hivinsite.ucsf.edu.



Outline of the presentation

- 1. Introduction
- 2. What is evidence and levels of evidence in HIV prevention?
- 3. HIV prevention interventions
 - 3.1. Biomedical HIV prevention interventions
 - 3.2. Behavioural HIV prevention interventions
 - 3.3. Structural HIV prevention interventions
- 4. Summary of HIV prevention interventions that work
- 5. Other examples of evidence-based social and behavioural interventions from Southern Africa
- 6. Conclusion



1. Introduction

- Remarkable advances in the molecular biology of HIV and major therapeutic discoveries in the past 28 years of the epidemic.
- Many interventions have been developed and implemented some were tested for evidence of efficacy or effectiveness and some were not.
- In 2010, we are still unsure which interventions work! We need to identify and use best and good evidence HIV prevention interventions that work.
- Policymakers, implementers, researchers, funders and the community
 all need evidence that an HIV prevention intervention works...
- We present evidence of HIV prevention interventions that work and also present their level of effectiveness or efficacy.



2. What is evidence?

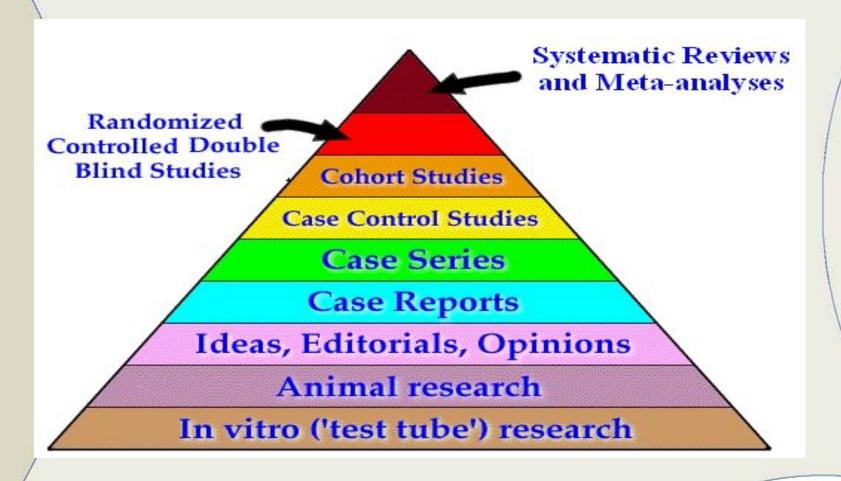
- Evidence refers to "facts or testimony in support of a conclusion, statement or belief" and "something serving as proof".
- Proof that something works.
- The Law uses <u>witnesses and other forms of evidence</u> to prove guilt beyond reasonable doubt.
 - Epidemiology uses <u>p-value</u> to show level of significance e.g. p<=0.05 says we are 95% confident that the observed difference is not due to chance.







The Evidence Pyramid



Source: http://library.downstate.edu/EBM2/2100.htm

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Proposed levels of evidence

Level of evidence	% Effectiveness or efficacy (in RCT)
Best Evidence	80% +
Good evidence	60-79%
Promising evidence	30-59%
NO Evidence	0-29%



3.1. Biomedical HIV prevention interventions

- 3.1.1. Male circumcision (MC)
- 3.1.2. Highly Active Antiretroviral Therapy (HAART)
- 3.1.3. Prevention of mother to child transmission (PMTCT)
- 3.1.4. Condoms (Male and Female)
- 3.1.5. Treatment of Sexually Transmitted Infections (STI)
- 3.1.6. Microbicides and cervical barriers
- 3.1.7. HIV vaccine



3.1.1. Male Circumcision (MC)

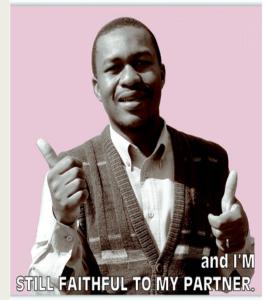
Good evidence

RCTs on MC in South Africa, Uganda, and Kenya[1]: "There is compelling evidence that MC is 65% effective in reducing the risk of acquiring HIV in circumcised men..."

A Cochrane review assessed data from trials in SA, Uganda, and Kenya between 2002 and 2006 that enrolled 11,054 males said that research on the effectiveness of MC for preventing HIV in heterosexual men is conclusive.

Reviewers concluded that no further trials are required to establish that HIV infection rates are reduced in heterosexual men for at least the first two years after circumcision[2]

I'm Circumcised, proud of it...





[1] Gray, H. et al. (2007). MC for HIV prevention in young men in Rakai: A RCT. Lancet 369:657-66.

[2] Siegfried N, Muller M, Volmink J, Deeks JJ,. MC for prevention of heterosexual acquisition of HIV in men Cochrane Database of Systematic Reviews, Issue 4, 7 October 2009

3.1.2. Highly Active Antiretroviral Therapy (HAART)



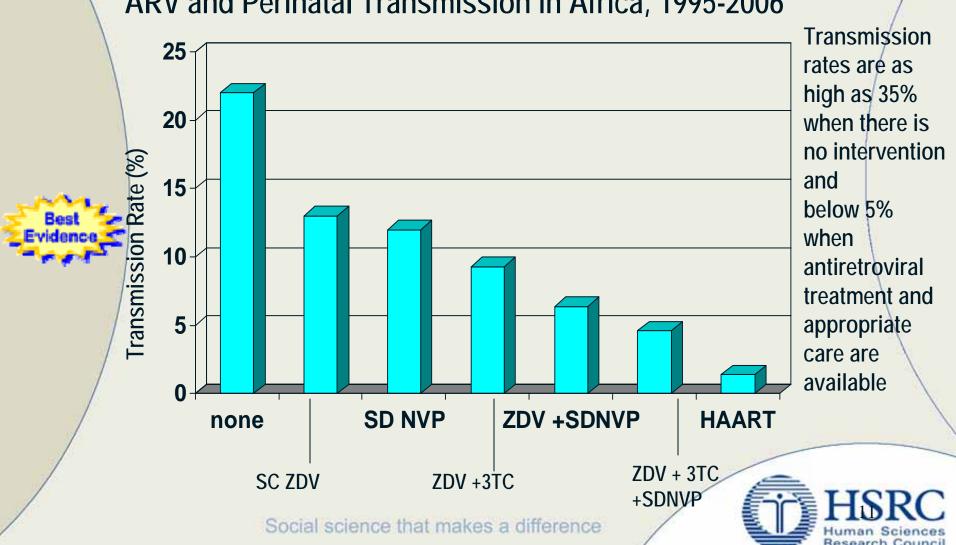
Good evidence

- RCTs on HAART* reported 60% to 80% reductions in new AIDS illnesses, hospitalizations and deaths
- A meta-analysis** of 54 antiretroviral clinical trials has demonstrated that:
 - Using one antiretroviral <u>reduced progression to AIDS or</u> <u>death by 30%</u> against placebo.
 - Using two antiretrovirals <u>reduced progression to AIDS</u> or death by 40% against one antiretroviral
 - Using three antiretrovirals <u>reduced progression to AIDS</u> or death by 40% against two antiretrovirals

^{*}Jordan et al. (2002) Systematic review and meta-analysis of evidence for increasing numbers of drugs in antiretroviral combination therapy. BMJ 2002;324:757 http://www.bmj.com/cgi/content/full/324/7340/757
**Palella et al. (1998) Declining morbidity and mortality among patients with advanced HIV infection. NEJM, 338:853-860.

3.1.3. Preventing Mother-To-Child Transmission (PMTCT) of HIV

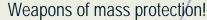
ARV and Perinatal Transmission in Africa, 1995-2006



3.1.4. Condoms



- A meta-analysis commissioned by UNAIDS* = male condom use is 90% effective in preventing HIV transmission.
- "Evidence from Family Planning programs over many years makes it abundantly clear that the condom is a safe and relatively effective method..."







Based on laboratory and clinical evidence, the US FDA approved the female condom as 94-97% effective in reducing the risk of HIV infection, if used correctly and consistently**.



*Hearst N and Chen S, *Condom promotion for AIDS prevention in the developing world: is it working?*Studies in Family Planning, 2004, 35(1):39–47. http://www.usp.br/nepaids/condom.pdf
**AVERT, "The Female Condom" fact sheet, available online at http://www.avert.org/femcond.htm

3.5. STI treatment

Promising evidence

 Evidence from a cluster RCT in Mwanza, Tanzania, suggests that improved STI treatment services were shown to reduce HIV transmission by about 40%.

NO evidence Two trials (Mwanza & Rakai) indicate <u>no evidence</u> for substantial benefit from STI treatment of all community members.

Promising evidence

 Cochrane Reviewers concluded that <u>limited evidence</u> from RCTs indicates that STI control serves as an effective HIV prevention strategy.

Schulze KF (2004) Population-based interventions for reducing sexually transmitted infections, including HIV infection. *The WHO Reproductive Health Library*; Geneva Wilkinson D, Rutherford G. Population-based interventions for reducing sexually transmitted infectionly including HIV infection. *The Cochrane Library*, Issue 1 2003.

3.1.6. Microbicides and cervical barriers

NO evidence Studies of early-generation microbicides have <u>failed</u> to detect a prevention benefit, and disappointing results were reported on the HIV prevention potential of female diaphragms.

Promising evidence

 HPTN 035: A multi-centre clinical trial conducted at 7 sites (6 in Africa) evaluated the safety and effectiveness of two candidate microbicides, BufferGel and PRO 2000 with 3,099 participants. PRO 2000 was 30% effective compared with no gel but BufferGel had no detectable effect on preventing HIV infection.

NO evidence Topical microbicides <u>have not performed well</u> in human HIV prevention studies, with 10 trials of surfactant and polyanionic compounds yielding <u>negative results</u>.





3.1.7. HIV vaccine



Promising evidence

• The Thai Phase III HIV vaccine clinical trial (RV 144), tested the "prime-boost" combination of two vaccines: ALVAC® HIV vaccine (the prime), and AIDSVAX® B/E vaccine (the boost). The vaccine combination was based on HIV strains that commonly circulate in Thailand. The trial demonstrated that the vaccine regimen was safe and modestly effective in preventing HIV infection. The results show that the primeboost combination lowered the rate of HIV infection by 31.2%*

NO evidence HIV Vaccine Trials Network (HVTN) launched the first largescale study to evaluate a candidate clade B HIV HIV vaccine. The phase IIb or "test of concept" efficacy trial involved 3,000 participants at 5 sites in South Africa. Unfortunately, the trials were halted in September 2007 owing to the vaccine's lack of efficacy

*Rerks-Ngarm R, Pitisuttithum P, Nitayaphan S, Kaewkungwal J, Chiu J et al. Vaccination with ALVAC and AIDSVAX to Prevent HIV-1 Infection in Thailand. NEJM 20 October 2009

Summary: Evidence of Biomedical HIV prevention interventions

Level of evidence	Interventions	% Effectiveness or efficacy
Best Evidence	Male Condoms Female Condoms PMTCT [Dual & triple therapy]	80-95% [Natural experiment] 94-97% [Natural experiment] 92-98% [RCTs]
Good evidence	HAART Male Circumcision	60-80% [RCTs] 65% [3 RCTs]
Promising evidence	HPTN 035 (PRO 2000) STI treatment RV 144 Thai vaccine trial	30% [1 RCT] 40% [1 RCT] 31.2% [1 RCT]
NO evidence	HIV Vaccine Trials Network (HVTN) Early-generation microbicides & topical microbicides	No efficacy [RCT] Failed [RCTs] and negative results [10 RCTs]

Prevention of the Sexual Transmission of HIV-1: Results from RCTs

Intervention	RCTs Completed	RCTs Effective
Behavior change	9	0
Circumcision	4	3
Diaphragms	1	0
Microbicides	9.5	0
PrEP	1	0
STD Treatment	7	1
Vaccines	2	0

- 1) RCT results are one measure of success
- 2) 15 RCTs in progress: new results each year



3.2 Social and behavioural prevention interventions



- The goal of social and behavioural interventions is to reduce the risk of HIV-related behaviours.
- Specifically, interventions seek to:
 - delay the onset of sexual intercourse,
 - reduce the number of sexual partners a person has,
 - reduce the incidence of unprotected sex by increasing condom use, or
 - reduce or eliminate the incidence of substance (alcohol and drug) use



Levels of evidence and criteria for social and behavioural prevention interventions

Best-evidence HIV behavioural interventions include interventions that have been rigorously evaluated and have shown significant effects in eliminating or reducing risk behaviours, reducing the rate of new HIV/STD infections, or increasing HIV-protective behaviours.

Criteria: Prospective study design; at least a 3-month post-intervention follow-up assessment for each study arm; at least a 70% retention rate at a single follow-up assessment for each study arm.

 Promising-evidence HIV behavioural interventions include interventions that have been sufficiently evaluated and have shown significant effects in eliminating or reducing risk behaviours, reducing the rate of new HIV/STD infections, or increasing HIV-protective behaviours.

Criteria: Prospective study design; at least a 1-month post-intervention follow-up assessment for each study arm; at least a 60% retention rate at a single follow-up for each study arm; positive and statistically significant (p ≤ .05) intervention effect for ≥ 1 relevant outcome measure; no evidence that any additional limitation was a fatal flaw

Social and behavioural prevention interventions

3.2.1. Abstinence-only and ABC interventions

3.2.2. Voluntary Counselling & Testing (VCT)

3.2.3. Stepping Stones counselling intervention

3.2.4. Concurrent sexual partnerships

"Behavioral HIV prevention works. Some have been pessimistic that it's possible to reduce HIV risk behaviors on a large scale, but this concern is misplaced"

Dr. Helene Gayle, co-chair of the Working Group

LOBAL MY PREVENTION WORKING GROUP

Global HIV Prevention Working Group (2008). Behavior Change and HIV Prevention: Re)considerations for the 21st Century.

> BEHAVIOR CHANGE AND HIV PREVENTION: (RelConsiderations for the 21st Century



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3.2.1. Abstinence-only and ABC interventions

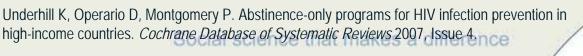
NO evidence A Cochrane review of 13 RCTs comparing abstinence-only programs to various control groups in the US concluded that ...abstinence-only programs do not appear to reduce or exacerbate HIV risk among participants in high-income countries, although this evidence might not apply beyond US youth. Of the 13 trials, 7 trials reported incidence of vaginal sex.



NO Evidence?

"It is time to scrap the ABCs and elevate the debate on HIV prevention beyond the incessant controversies over individual interventions. Small scale, isolated HIV prevention programs, however effective, will not bring the AIDS epidemic under control...Policy makers, donors and advocates need to demand national prevention efforts...ABC infantalizes prevention, oversimplifying what should be an ongoing, strategic approach to reducing incidence."

Collins et al, AIDS, 2008

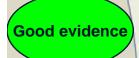




3.2.2. HIV Counseling and Testing (HCT)



 Meta-analysis of 11 studies of the impact of counseling and testing for PLWH/A*



- 68% reduction in high risk sexual behaviors with partners not already HIV+ (95% CI: 59% - 76%)
- Very similar findings for men and women



Examining pool of 27 studies, a meta-analysis** found <u>no</u> <u>significant impact</u> of "counseling *and* testing" bundle on behavior relative to the untested

*Marks G et al. J*AIDS* 2005:39:446-453.



^{**}Weinhardt LS et al. Am J Public Health. 1999;89:1397-1405.

3.2.3. Stepping Stones counseling intervention: Impact on HIV-1, HSV-2 & Behaviour

Promising evidence

Stepping Stones, a 50-hour "participatory learning" counseling program, lowered the risk of herpes simplex virus type 2 (HSV-2) infection by 34.9 per 1000 people exposed in a community RCT of 70 E.Cape villages. Compared with a shorter program, Stepping Stones did not lower incidence of HIV-1 infection and had variable impacts on risk behavior in the young adults studied.

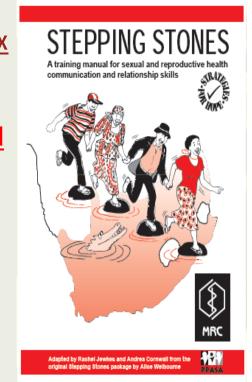
NO evidence

Promising evidence

Men who completed the *Stepping Stones* program reported <u>less intimate partner violence (IPV)</u> over 2 years, <u>less transactional sex</u> over 12 months, and <u>less problem drinking</u> over 12 months.

NO evidence

But Stepping Stones women reported <u>more</u> <u>transactional sex</u> than women in the control program.



Jewkes, Nduna, Levin, Jama, Dunkle, Puren, Duvvury. Impact of Stepping Stones on incidence of HIV and and sexual behaviour in rural South Africa: Cluster randomised controlled trial. *BMJ*. 2008;337:a506

3.2.4. Concurrent Sexual Partnerships

 Taken together, the evidence that concurrency is driving the <u>Africa AIDS epidemics is limited</u>. There is as yet no <u>conclusive evidence</u> that concurrency:

NO evidence

- (1) is associated with HIV prevalence;
- (2) increases the size of an HIV epidemic;
- (3) increases the speed of HIV transmission;
- (4) increases the persistence of HIV in a population; or
- (5) that this relationship has a large magnitude of effect.
- Current data on MCP comes from cross-sectional and ecological studies only; no RCTs or observational studies.

Lurie M and Rosenthal S (2009)Concurrent Partnerships as a Driver of the HIV Epidemic in Sub-Saharan
Africa? The Evidence is Limited. AIDS and Behavior
Mah T. L. and Halperin D. T. (2008). Concurrent sexual partnerships and the HIV epidemics in Africa:

Evidence to move forward. AIDS and Behavior

3.3. Structural HIV prevention interventions

IMAGE study on micro-finance

Promising evidence

Intervention with Microfinance for AIDS and Gender Equity (IMAGE)
RCT in rural Limpopo assessed a structural intervention that
combined a microfinance programme with a gender and HIV
training curriculum. They study found that experience of intimatepartner violence (IPV) was reduced by 55%.

NO evidence • The intervention <u>did not affect the rate of unprotected sex</u> with a non-spousal partner (aRR 1·02, 0·85–1·23), and there was <u>no effect on the rate of unprotected sex</u> at last occurrence with a non-spousal partner (0·89, 0·66–1·19) or <u>HIV incidence</u> (1·06, 0·66–1·69) in Cohort 3

Pronyk P, Hargreaves J, Kim J, et al. (2006) Effect of a structural intervention for the prevention of intimate-partner violence and HIV in rural South Africa: a cluster randomised trial. Lancet Vol 368: 1973-83

Summary: Behavioural and Structural HIV prevention interventions that work

Level of evidence	Interventions	% Effectiveness or efficacy
Best Evidence		
Good evidence	HCT for PLWHA	68% reduction in high risk sexual behaviors [1 comm RCT]
Promising evidence	Stepping Stones IMAGE study	Lowered the risk of HSV-2 by 34.9 per 1000 people exposed; less IPV and less transactional sex [comm RCT] IPV was reduced by 55% [comm RCT].
NO evidence	Abstinence-only interv's HCT on untested Stepping Stones IMAGE	7/13 reported sex [SR] no impact of C&T on behavior of untested did not lower incidence of HIV-1
	Concurrency	No effect on HIV incidence [comm RCT] No conclusive evidence

- Apart from IMAGE and Stepping Stones, they are several other social and behavioural prevention interventions from South Africa and other resource-limited settings.
- One useful source is the Global Health Literature Digest produced on a biweekly basis by UCSF Global Health Sciences (GHS) on http://hivinsite.ucsf.edu/lnSite?page=jl-00-00 Part 1.
- These studies of behavioral, policy, and prevention interventions have one or more of the following aims:
 - to reduce sexual or drug-related risk behaviors,
 - to decrease primary or secondary transmission,
 - to improve health service delivery and quality of life,
 - and to improve HIV treatment and treatment adherence.

Intervention	Type & Target group	Site(s)	Behaviour(s) targeted for change	Theory/ Model	Evaluated? Evidence?
Phaphama STI Good evidence	Clinic intervention STI clinic attendees	Spencer Road Clinic, CT	↑Knowledge of HIV ↑Motivation for safer sex	IMB	Yes in USA and SA Large RCT in 3 PHC clinics Effectivess in 13 clinics in Mpumalanga
Phaphama Alcohol Good evidence	Community intervention Patrons of shebeens	Delft, CT	↓Alcohol as risk factor for HIV↓ HIV risk	IMB & social networking	Yes
Phaphama Men Promising evidence	Community Men :	Gugulethu, CT Nyanga, CT science that make	 → GBV → HIV risk → Alcohol use → HIV risk es a difference 	Social constructionis m & & social networking	Both interventions demonstrated positive effects on some of the outcomes Research Council

Intervention	Type & Target group	Site(s)	Behaviour(s) targeted for change	Theory/ Model	Evaluated? Evidence?
Phaphama Community Alcohol	Community intervention Patrons of shebeens	Gugulethu, Nyanga, Crossroads, Phillipi	↓Alcohol as risk factor for HIV	IMB, Social cognitive & social networking	Large efficacy RCT in 12 communities currently underway No effectiveness
Men as Partners NO evidence	Community (men & women)	Several SADC countries	 ↓gender-based violence, ↑ attitudes toward women, and ↓ HIV and STI risk 	Social cognitive & social networking	No effectiveness evaluation ?Evidence



Intervention	Type & Target group	Site(s)	Behaviour(s) targeted for change	Theory/ Model	Evaluated? Evidence?
Phaphama Male circumcision NO evidence	Men undergoing medical or traditional male circumcision	Witbank, Mpumalanga		IMB & social networking	Feasible & acceptable; Efficacy currently underway No effectivess evaluation
Project Accept Promising evidence	Community RCT; Standard v.s Intervention community Rural community (Adults & young people)	Sweetwaters KZN Mobile vans in rural community	 ↑ HIV testing ↑HIV disclosure & discussion ↓ Stigma & discrimination ↓ HIV risk behaviour 	Diffusion of Innovations; Tipping point theory Social action theory	↑Diffusion of VCT
NIDA Standard Intervention/ Woman-Focused Intervention	CSWs	Pretoria Science that make	↑condom use and ↓alcohol and crack cocaine use ↓GBV	Promising evidence	HSRC Human Sciences Research Council

Intervention	Type & Target group	Site(s)	Behaviour(s) targeted for change	Theory/ Model	Evaluated? Evidence?
Adolescent sexual health NO evidence	Adolescents in Grades 5-7 of primary schools followed for 3 years	20 rural communities in Mwanza Region of Tanzania (10 intervention – 58 primary schools and 18 health facilities vs 10 conmparison – 63 primary schools and 21 health facilities)	 ✓ Primary: HIV Sero-incidence and ✓ HSV2 Secondary: ✓ six further biological measures – prevalence of four STIs, pregnancy test, and reported pregnancy during follow-up; ✓ five behavioural measures, one attitudinal measure and ↑ three measures of knowledge (acquisition of HIV and STIs and prevention of pregnancy) 	Not specified	Yes efficacy evaluation – no impact on primary and secondary biological outcomes but some impact on some behavioural outcomes and reported STI symptoms.



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Intervention	Type & Target group	Site(s)	Behaviour(s) targeted for change	Theory/ Model	Evaluated? Evidence?
*Could not include micro-credit income-generating programmes due to economic problems in country NO evidence	Female sex workers and clients	Manicaland Province, Eastern Zimbabwe	 ▶ Primary: HIV incidence over 3 years ▶ Secondary: Self-reported STIs and ↑ treatment effectiveness, sexual and ↑ health-seeking behavior change, and ↑ HIV knowledge 	Not specified	Yes efficacy evaluation - No reduction in population- level HIV incidence, self- reported STIs nor high risk sexual behaviour especially condom use and transactional sex



Intervention	Type & Target group	Site(s)	Behaviour(s) targeted for change	Theory/ Model	Evaluated? Evidence?
Good evidence	Male soldiers	Military bases in Luanda, Huila and Malanje	↑ Changes in HIV knowledge, ↑ perceived vulnerability to HIV, ↑ condom use, ↓ proportion of unprotected sex acts, ↓ alcohol consumption before sex.	IMB Model	Yes efficacy – ↑HIV knowledge and ↓ sexual risk behaviours

Type & Target group	Site(s)	Behaviour(s) targeted for change	Theory/ Model	Evaluated? Evidence?
Community intervention PLWHA in support groups	KSD district in EC	↑ Disclosure	Social cognitive theory	Yes efficacy in USA; Feasibility and acceptability in pilot in Botswana and SA Currently being evaluated in SA
Individual PLWHA in clinical care	Durban Hospital PMB		IMB	Yes efficacy in USA and also in a pilot study in Durban RCT in PMB currently underway; also effectiveness in Mpumalanda
	Community intervention PLWHA in support groups	Community intervention PLWHA in support groups Individual PLWHA in clinical care Durban Hospital PMB	Target group Community intervention PLWHA in support groups Community intervention PLWHA in clinical care KSD district in EC HODISCIOSURE VPrimary HIV infection VSecondary HIV infection VSecondary HIV infection VPrimary HIV infection VSecondary HIV infection VSecondary HIV infection VSecondary HIV infection VSecondary HIV infection	Target group Change Change Model Community intervention PLWHA in support groups Change Change Model A Disclosure Primary HIV infection PSecondary HIV infection PSecondary HIV infection PSecondary HIV infection Primary HIV infection Primary HIV infection PRIMA In clinical care Change Model A Disclosure Primary HIV infection Primary HIV infection PSecondary HIV infection PMB

Intervention	Type & Target group	Site(s)	Behaviour(s) targeted for change	Theory/ Model	Evaluated? Evidence?
19 AIDS communication programmes e.g., Soul City; Siyayinqoba Beat It, loveLife, TshaTsha, Takalani Sesame Street.	All age groups NO evidence	Several SADC countries	↑ Condom usage, ↑ self efficacy in condom usage; ↑ discussion of HIV testing and testing and knowledge of ARVs and ↑ helping someone sick with AIDS	Multiple theories	No effectiveness evaluation Indirect evidence of impact on outcomes (based on modelling)
LoveLife NO evidence	Communication campaign Young people 15 – 29 yrs	National in South Africa: 760 sites. Media, Cellphones, Billboards,	↑Opportunities in life for youth ↑Communication among youth	"Eclectic model" 10 Commitments (ARRM)	No effectiveness evaluation ?Evidence
Scrutinize NO evidence	Communication campaign Young people 18-32 years	SABC TV audiences	 ↓MCP ↑ Condom use ↓ HIV risk ↓Transactional sex ↓ Alcohol and sex s a difference 	Social ecology model	No effectiveness evaluation ?Evidence H3SRC Human Sciences Research Council

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Intervention	Type &Target group	Site(s)	Behaviour(s) targeted for change	Theory/ Model	Evaluated? Evidence?
Soul City NO evidence	Communicatio n campaign	Multimedia	VMCP VGBV VAlcohol	Social Ecology Model	No effectiveness evaluation yet.
	Young people 15 – 26 yrs				?Evidence
One Love NO evidence	Communicatio n campaign Young people	SABC TV audiences LSM 1-10	↓MCP ↑Talk, respect & protect	Social Networking Theory	No effectiveness evaluation yet.
- Criderice	and adults 8 -14 years; 16 - 45 years				?Evidence
/		I science that make	es a difference		Human Sciences

Research Council

Evidence-based HIV behavioural interventions in the US

- CDC's AIDS Prevention Research Synthesis (PRS) project identified 18 best evidence, theory-based behavioural interventions demonstrating "best evidence" of efficacy for reducing HIV risk. They were targeted at heterosexual men and women, MSM, Youth, PLWHA and low income populations, etc.
- "The...PRS efficacy review process has identified 49 evidence-based HIV behavioral interventions (as of November 2007)."
- The compendium of HIV prevention interventions...
 contains about 24 "other evidence-based interventions",
 while "promising-evidence" HIV behavioural interventions
 are being evaluated.

Case study: How to diffuse effective behavioural interventions that work

- The Diffusion of Effective Behavioural Interventions (DEBI)
 project was designed to bring science-based, community,
 group, and individual-level HIV prevention interventions to
 community-based service providers and state and local
 health departments.
- The goal is to enhance the capacity to implement effective interventions at the state and local levels, to reduce the spread of HIV and STDs, and to promote healthy behaviors.



The Big Challenge NOW

Great HIV treatment success...

- 22 antiretroviral agents available
- More than 2 million people receiving ART

But 2.5 million new HIV infections/yr

HIV prevention lags behind and has not married treatment except for MTCT!!

HIV prevention MUST marry treatment NOW: With the community...a unified strategy



6. Conclusion

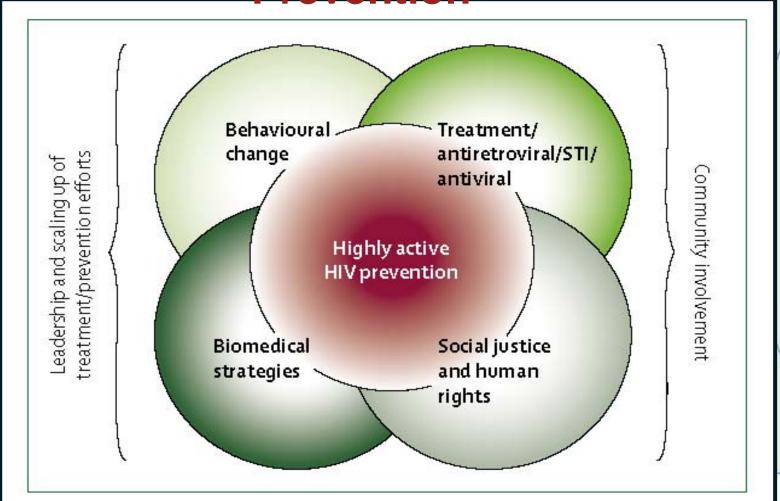
No "Magic Bullet" for HIV

"It is critical to note that there is no "magic bullet" for HIV prevention. None of the new prevention methods currently being tested is likely to be 100 percent effective, and all will need to be used in combination with existing prevention approaches if they are to reduce the global burden of HIVIAIDS."

Source: Global HIV Prevention Working Group (2008)

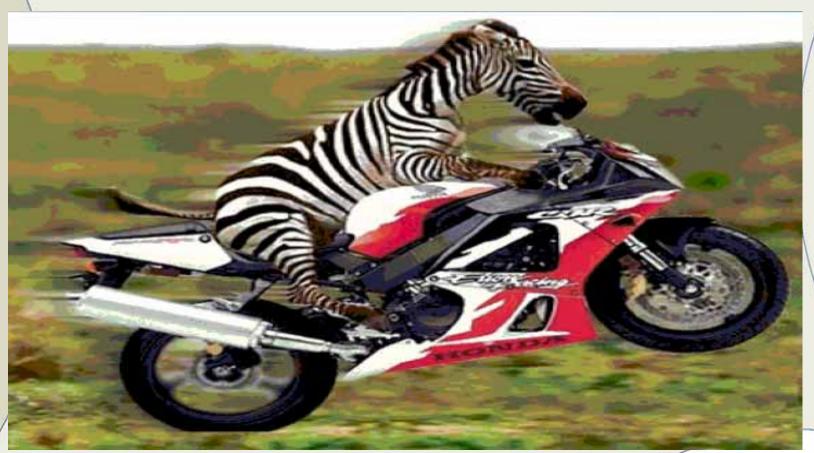


Highly Active (combination) HIV Prevention





The AIDS epidemic has taught us to be innovative and to invent, test and implement new interventions. We now have evidence of HIV prevention strategies that work!



Picture source: Naidoo D (2007). Science, Technological and Innovation – A Strategic Imperative for South Africa



However, despite our innovation, inventiveness and compelling evidence of effective strategies, the "killer virus" is still chasing and killing us!



Picture source: Naidoo D (2007). Science, Technological and Innovation – A Strategic Imperative for South Africa





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