CIENCIA PARA LA ACCIÓN

XXXV REUNIÓN CIENTÍFICA DE LA SEE XII CONGRESSO DA ASSOCIAÇÃO PORTUGUESA DE EPIDEMIOLÓGIA



La re-emergencia del VIH y las ITS entre hombres gais y otros hombres que tienen sexo con hombres (HSH): de lo biológico a lo social

> Dr. Percy Fernández-Dávila Área de Investigación, Stop Sida



Esquema de la presentación

- Introducción
- Factores biológicos que modulan la infección del VIH entre HSH.
- Factores psicosociales (modelo ecológico).
- Ejemplo de modelo ecológico: el ChemSex
- Sindemia
- Dos ejemplos de intervenciones psicosociales

Introducción

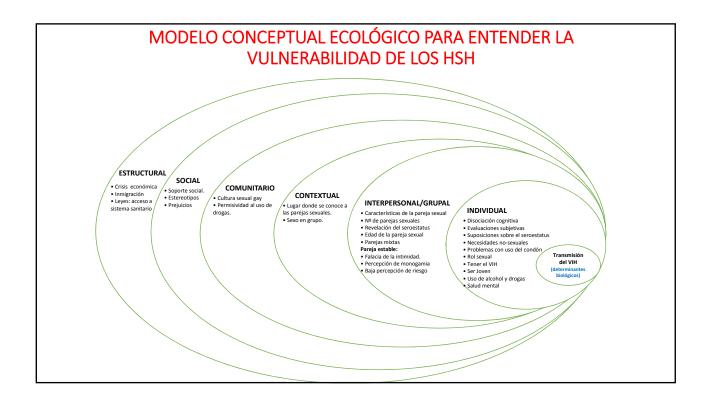


- Los HSH tienen un riesgo 140 veces mayor de contraer el VIH comparado con los hombres heterosexuales (Pathela et al., 2011).
- Prácticas sexuales de riesgo en aumento entre los HSH.
- Aumento de la prevalencia (12%-17%) y la incidencia del VIH y otras ITS.
- La epidemia del VIH ha sido declarada como incontrolable.
- Estudios (cuantitativos) y las **explicaciones "oficiales"** que han buscado explicar este incremento han sido decepcionantes.



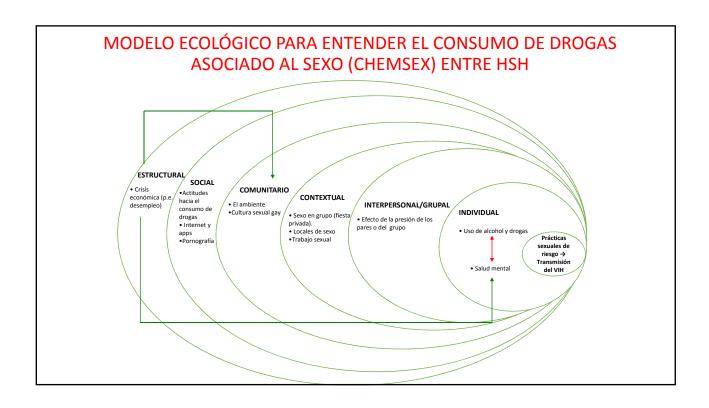
Los motivos "oficiales"

- Optimismo por los avances del tratamiento del VIH.
- Fatiga relacionada con la prevención del VIH.



Factores biológicos que influencian una mayor probabilidad de transmisión/adquisición del VIH entre HSH

- Penetración anal: tiene 18 veces más alta probabilidad de infección que la penetración vaginal. Receptivo.
- Practicar la versatilidad sexual.
- Las ITS no diagnosticadas y no tratadas.

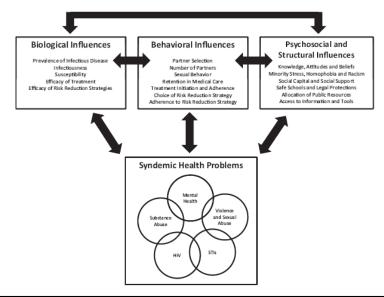




SINDEMIA

- Término introducido por antropólogos de la salud (Singer, 1996).
- Necesidad de expandir la perspectiva epidemiológica ante las dimensiones colectivas del daño sanitario.
- "Co-ocurrencia de dos o más enfermedades o problemas de salud que interactúan entre sí, y que contribuyen, como resultado de su interacción, a un exceso de carga de la enfermedad/problemas de salud (p.e. VIH, conductas de riesgo) en una persona o población dada que una enfermedad o problema de salud por sí solo".

Factores bio-psico-sociales relacionados a la sindemia en hombres gais, bisexuales y otros HSH





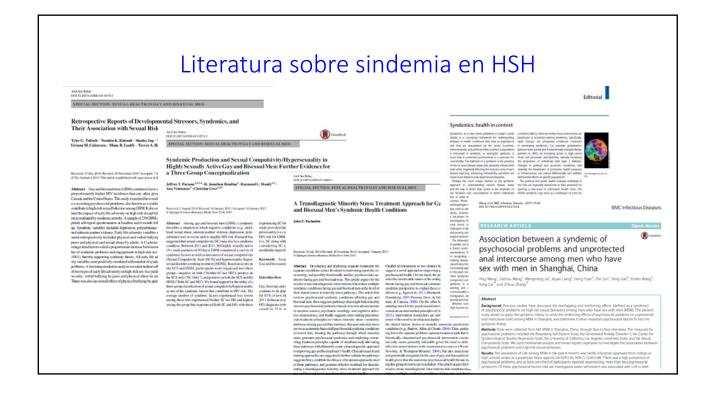
¿Qué aspectos psicosociales hacen condiciones sindémicas entre HSH?

- Estrés,
- Ansiedad, depresión,
- Uso de alcohol y drogas,
- Homonegatividad internalizada,
- Discriminación social (orientación sexual....),
- Estigma (VIH....)
- Abuso sexual infantil,
- Violencia doméstica de pareja,
- · Compulsividad sexual,
- Violencia sexual,
- etc.



¿Por qué aplicar la teoría de la sindemia en HSH?

- La prevención del VIH en España se ha focalizado en los factores individuales (p.e. uso del condón) y no han considerado los **condicionantes psico-sociales** que están detrás de las conductas de riesgo.
- La teoría de la sindemia en HSH busca entender la carga desproporcionada de la infección por el VIH que afecta a los hombres gais, bisexuales y otros HSH.



Design of a **syn**demic **bas**ed **in**tervention to facilitate care for men who have sex with men with high risk behaviour: the syn.bas.in randomized controlled trial

Roel C. A. Achterbergh¹, Jannie J. van der Helm¹, Wim van den Brink² and Henry J. C. de Vries^{1,3,4*}

Background: Men who have sex with men (MSM) constitute a risk group for sexual transmitted infections (STIs), including HIV. Despite counselling interventions, risk behaviour remains high. Syndemic theory holds that psychosocial problems often co-occur, interact and mutually reinforce each other, thereby increasing high risk behaviours and co-occurring diseases. Therefore, if co-occurring psychosocial problems were assessed and treated simultaneously, this might decrease high risk behaviour and disease.

Method: An open label randomized controlled trial will be conducted among 150 MSM with high risk behaviour recruited from the STI clinic of Amsterdam. Inclusion criteria are: HIV negative MSM with two STI and/or PEP treatment in the last 24 months, or HIV positive MSM with one STI in the last 24 months. All participants get questionnaires on the following syndemic domains: ADHD, depression, anxiety disorder, alexithymia and sex- and drug addiction. Participants in the control group receive standard care: STI screenings every three months and motivational interviewing based counselling. Participants in the experimental group receive standard care plus feedback based on the results of the questionnaires. All participants can be referred to co-located mental health or addiction services.

The primary outcome is help seeking behaviour for mental health problems and/or drug use problems. The secondary outcomes are STI incidence and changes in sexual risk behaviour (i.e. condom use, number of anal sex partners, drug use during sex).

Discussion: This study will provide information on syndemic domains among MSM who show high risk behaviour and on the effect of screening and referral on help seeking behaviour and health (behaviour) outcomes.

Trial registration: Trial Registration at clinicaltrail.gov, identifier NCT02859935.

La PrEP para hombres gais y otros HSH

AIDS. 2017 Aug 28. doi: 10.1097/QAD.00000000001626. [Epub ahead of print]

Were we prepared for PrEP? five years of implementation.

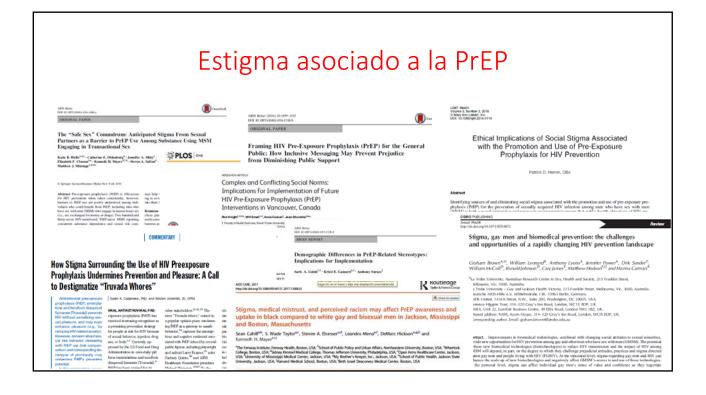
Weinstein M1, Yang OO, Cohen AC.

Author information

Abstract

: While the overall incidence of HIV infections in the United States (US) has decreased in recent years, certain populations remain particularly vulnerable, including racial/ethnic minorities, adolescents/young adults, and people in the southern US [1]. The Centers for Disease Control and Prevention (CDC) stated strategy to combat new infections includes a combination of "cost-effective, scalable interventions based on current science" [2]. In July 2012, the US Food and Drug Administration (FDA) approved daily oral combination tenofovir/emtricitabine ("Truvada") for pre-exposure prophylaxis (PrEP) in at-risk uninfected adults, with subsequent endorsement as blanket policy by the CDC in May 2014 [3]. These decisions occurred despite calls for more deliberate consideration based on concerns raised by some experts, including AIDS Healthcare Foundation (AHF), the largest global nonprofit provider of HIV prevention services, testing, and medical care. While AHF was/is painted as ardently anti-PrEP [4], this is an inaccurate oversimplification of its voiced concerns that PrEP would: be difficult to implement due to healthcare barriers, have limited efficacy due to poor adherence, and increase risky sexual behaviors and transmission of other sexually transmitted infections (STIs). What do the first five years of Truvada PrEP reveal regarding these issues? The data are incomplete and subject to caveats and biases, but suggest that this approach has not had the positive impact anticipated by the CDC.





La PrEP debe de considerarse una intervención bio-conductal

- Intervenciones psicosociales deben realizarse con:
 - Personal sanitario
 - Los colectivos afectados por el VIH
 - Las personas que tienen un alto riesgo de adquirir el VIH
- Intervenciones a nivel comunitario: marketing social (crear conciencia en base a herramientas de comunicación, p.e. mensajes en campañas).

LGBT Health Volume 00, Number 00, 2017 @ Mary Ann Liebert, Inc. DOI: 10.1089/lgbt.2016.0068

SHORT REPORT

Culturally Competent Sexual Healthcare as a Prerequisite for Obtaining Preexposure Prophylaxis: Findings from a Qualitative Study

Kevin M. Maloney, MPH,1,2 Douglas S. Krakower, MD,1,3,4 Dale Ziobro,1 Joshua G. Rosenberger, MPH, PhD, David Novak, MSW, and Kenneth H. Mayer, MD1,3,4

Purpose: Men who have sex with men (MSM) experience stigma in healthcare settings, which impedes disclosure of sexual behavior, potentially limiting uptake of preexposure prophylaxis (PrEP). The purpose of this study was to describe the context of this limitation and explore geographical variability.

Methods: To understand how discomfort in healthcare settings affects PrEP utilization, we conducted two online focus groups with geographically diverse samples of MSM.

Results: Respondents identified primary care providers as preferred sources for PrEP, but potential uptake was limited by barriers to establishing nonjudgmental relationships with these providers.

Conclusion: Improved patient—provider communication about sexual behaviors might increase PrEP use among

MSM

SUPPLEMENT ARTICLE

© 2014 British HIV Association

DOI: 10.1111/hiv.12132 HIV Medicine (2014), 15, 385-395

Optimizing Adherence to Preexposure and Postexposure Prophylaxis: The Need for an Integrated Biobehavioral Approach

Aaron J. Blashill, ^{1,2,3} Peter P. Ehlinger, ¹ Kenneth H. Mayer, ^{2,3,4} and Steven A. Safren^{1,2,3}

¹Department of Psychiaty, Massachusetts Geneal Hospital, ²Havvad Medical School, ²Revivay Health, and ²Seh Israel Describes Medical Center, Structures, Massachusetts

Preciposure prophylaxis (PrEP) and postexposure prophylaxis (PEP) has been shown to be effective in prevent-ing transmission of human immunodeficiency virus (HIV). A dose-response relationship between adherence and HIV transmission is illustrated in the current PEP literature, and adherence intervention for PrEP and 11 viralisation is mustated in the during HZP increases, and increases an anierence incrementors for First may be useful, although currently few effective programs have been developed and tested. There is a paucity of randomized controlled trials testing FPF adherence interventions, and further research is needed. We conclude by proposing the importance of tailoring adherence counseling to address psychosocial factors and mental health stressors that may negatively affect adherence.

Preexposure prophylaxis (PrEP) and postexposure pro-phylaxis (PEP) have been shown to protect against sim-ian retroviral acquisition in animal models, and, more recently, have been shown to be effective in preventing human immunodeficiency virus (HIV) transmission in humans [1, 2]. Recent studies have demonstrated PrEP and PEP to be successful deterrents of infection [3-5], and PEP to be successful deterrents of infection [3–5], but adherence to antifectorial regimens remains necessary for optimizing effectiveness. In this commentary, we evaluate what is known about adherence to PFEP and PEP, and discuss the mole of psychosocial factors. Build-ing on this discussion, we suggest future research direc-

Exposición (IPrEX) trial [4], the only efficacy study of PrEP in men who have sex with men (MSM) and transgender women, the risk of HIV acquisition in the PrEP arm was decreased by 44% compared with those in the placebo arm. Roughly half of the cohort had drug detected at any time interval. Pharmacological modeling suggested that PrEP efficacy was 92% when any active drug was detected in blood, and drug levels consistent with duily use could potentially result in 99%-100% protection [4]. An open-label extension from IPrEX found that when blood concentrations indicated use of 4 or more tablets per week, no participants became

Helping our patients take HIV pre-exposure prophylaxis (PrEP): a systematic review of adherence interventions

Jl. Marcus, ¹³ T Buisker, ³ T Horvath, ⁵ KR Amico, ⁴ JD Fuchs, ⁵ SP Buchbinder, ⁵³ RM Grant¹³ and AY Liu⁵

*Gladstone Institute of Virology and Immunology, San Francisco, CA, USA, ³ Department of Epidemiology, University of California, Berkey, CA, USA, ⁵ Closel Health Sciences, University of California, Berkey, CA, USA, ⁵ Closel Health Sciences, University of California, San Francisco Chapteria, University of Connecticut, Storrs, CT, USA, ⁵ Center for Learning and Innovation, San Francisco Department of Public Health, San Francisco, CA, USA, ⁵ Bridge HIV, San Francisco, CA, USA, ⁶ Closel of Medicine, University of California, San Francisco, CA, USA, ⁶ Content of Medicine, University of California, San Francisco, CA, USA

Objectives

Adherence is critical for maximizing the effectiveness of pre-exposure prophylaxis (PrEP) in preventing HIV infection. Strategies for promoting adherence to HIV treatment, and their potential application to PrEP adherence, have received considerable attention. However, adherence promotion strategies for prevention medications have not been well characterized and may be more applicable to PrEP. We aimed to identify adherence support interventions thave been effective in other prevention fields and could be applied in the HIV prevention context to support pill taking among PrEP users.

M-thode

context to support pill taking among PHF uses.

Methods
To identify adherence support interventions that could be evaluated and applied in the PrEP context, we conducted a systematic review across the following prevention fields: hypertension, latent tuberculosis infection, hyperlipidaemia, oral contraceptives, osteoporosis, malaria prophylaxis for HVI infection. We included randomized controlled trials that evaluated the efficacy of interventions to improve adherence to daily oral medications prescribed for primary prevention in healthy individuals or for secondary preventio in asymptomatic individuals.

Results
Our searches identified 585 studies, of which 48 studies met the eligibility criteria and were included in the review; nine evaluated multiple strategies, yielding 64 separately tested interventions. Interventions with the strongest evidence for improving adherence included complex, resource-intensive interventions, which combined multiple adherence support approaches, and low-cost, low-intensity interventions that provided education or telephone calls for adherence support.

RETOS Y OPORTUNIDADES

- Priorizar en poblaciones clave.
- Escuchar y atender las necesidades de prevención de los HSH.
- Prevención basada en evidencia científica.
- Ninguna intervención en prevención será efectiva si no se apunta a mirar los diferentes niveles ecológicos en los que está inserta la persona.
- Diseñar intervenciones que tengan un enfoque de prevención combinada (conductual, biomédica y estructural).
- Aprendamos de las lecciones aprendidas.

¡Muchas gracias!

Dr. Percy Fernández-Dávila percy@stopsida.org





