Highlights from Adherence 2016

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Conflict of Interest Disclosure

Michael Stirratt, Ph.D.

Has no real or apparent conflicts of interest to report.
Conference Evolution/Content

1. ART adherence
2. HIV care engagement/retention
3. Biomedical prevention (PrEP, TasP)
4. Cross-cutting issues (e.g. stigma, dignity, rights)

What did we hear at this meeting?
We are making PROGRESS... but SIGNIFICANT GAPS and DISPARITIES REMAIN
Good News on ART...

Improved viral suppression in US young adults

Improved ART coverage

Improved ART persistence
Montaner: Progress toward 90-90-90
... yet Disparities Persist

Age disparities in ART use & viral suppression continue

Racial disparities evident

Low retention, high mortality in US mothers over the long-term
Good News on PrEP

Increased PrEP awareness, interest, uptake among US MSM

66 Changing Attitudes to PrEP among Sexually Risky Men who have Sex with Men
Kenneth Mayer¹, Steven Safren², Aaron Blashill³, Samantha Marquez³, Abigail Batchelder⁴, Conall O’Cleirigh (presenting)⁴

128 Expanding PrEP Implementation as a Key Initiative of the Getting to Zero (GTZ) Consortium in San Francisco
Hyman Scott¹, Shannon Weber², Brad Hare³, Susan Buchbinder³, Jen Hecht⁴, Susan Scheer⁴, Tracey Packer⁵, Stephanie Cohen⁴, Stephanie Goss⁶, Pierre Cedric-Crouch⁴, Albert Liu (presenting)⁶

Changes in PrEP Use Among U.S. MSM
(3 web surveys, N=10,097)
Delaney et al, CROI, 2016
Where are we lagging on PrEP?

**Racial/ethnic disparities in MSM**

**211** Uptake of Pre-Exposure Prophylaxis (PrEP) in Young Men Who Have Sex with Men is Associated with Race, Sexual Risk Behavior, and Network Size

Anna Hotton¹, Lisa Kuhns (presenting)², John Schneider³, Robert Garofalo², Kayo Fujimoto⁴

**Transgender individuals**

**128** Expanding PrEP Implementation as a Key Initiative of the Getting to Zero (GTZ) Consortium in San Francisco

Hyman Scott¹, Shannon Weber², Brad Hare³, Susan Buchbinder¹, Jen Hecht⁴, Susan Scheer¹, Tracey Packer¹, Stephanie Cohen¹, Stephanie Goss⁵, Pierre Cedric-Crouch⁴, Albert Liu (presenting)⁶

**Mayer May 10 Plenary:**
- Rural vs. Urban US
- Widescale global access

**Cisgender women**

**104** PrEP Uptake among Cisgender Women at an Urban, Community-Based STI Clinic

Sachin Jain, Cedric Bien, Uri Felsen, Viraj Patel, Oni Blackstock (presenting)

“PrEP may not be for EVERY woman, but it’s an option for ALL women.” – KimberLeigh Smith, Callen-Lorde Community Health Center
IMPORTANCE OF SETTING GOALS, STAYING FOCUSED, and WORKING TOGETHER
Lansky: US NHAS Goals/Foci

**The Goals**
- Reducing new HIV infections
- Improving access to care and health outcomes
- Reducing HIV-related health disparities
- Achieving a more coordinated national response

**Advances in 4 Key Areas Are of Critical Focus through 2020**
- Widespread HIV testing and linkage to care enabling people living with HIV to access treatment early.
- Full access to PrEP services for those whom it is appropriate and desired, with support for medication adherence for those using PrEP.
- Broad support for people living with HIV to remain engaged in comprehensive care, including support for treatment adherence.
- Universal viral suppression among people living with HIV.
Granich: IAPAC Fast Track Cities

**FAST-TRACK CITY INITIATIVE TARGETS**

90% Of people living with HIV knowing their HIV status

90% Of people who know their HIV status on ART

90% Of people on treatment with suppressed viral load

0% Stigma and discrimination

**CURRENT FAST-TRACK CITIES**

**AFRICA**

1. Abidjan (Côte d'Ivoire)
2. Accra (Ghana)
3. Algiers (Algeria)
4. Atakpané (Togo)
5. Bamako (Mali)
6. Bamenda (Cameroon)
7. Bangui (CAR)
8. Blantyre (Malawi)
9. Casablanca (Morocco)
10. Cotonou (Benin)
11. Dakar (Senegal)
12. Dar es Salaam (Tanzania)
13. Djibouti (Djibouti)
14. Djougou (Benin)
15. Douala (Cameroon)
16. Durban (South Africa)
17. Johannesburg (South Africa)

**LATIN AMERICA/CARIBBEAN**

1. Kigali (Rwanda)
2. Kinshasa (DRC)
3. Lagos (Nigeria)
4. Lilongwe (Malawi)
5. Lomé (Togo)
6. Lubumbashi (DRC)
7. Luanda (Zambia)
8. Maputo (Mozambique)
9. Mbujimai (DRC)
10. Nairobi (Kenya)
11. Ouagadougou (Burkina Faso)
12. Pretoria (South Africa)
13. Windhoek (Namibia)
14. Yaoundé (Cameroon)

**EUROPE**

1. Amsterdam (Netherlands)
2. Athens (Greece)
3. Brussels (Belgium)
4. Bucharest (Romania)
5. Geneva (Switzerland)
6. Kiev (Ukraine)
7. Paris (France)

**ASIA/PACIFIC**

1. Bangkok (Thailand)
2. Delhi (India)
3. Jakarta (Indonesia)
4. Melbourne (Australia)
5. Mumbai (India)

**NORTH AMERICA**

1. Atlanta (USA)
2. Baltimore (USA)
3. Denver (USA)
4. Mexico City (Mexico)
5. Miami (USA)
6. Oakland (USA)
7. Providence (USA)
8. San Francisco (USA)
9. Washington, DC (USA)

*Several other jurisdictions have signed onto the initiative, this list reflects jurisdictions classified as cities*
Community Based Organizations and NGOs

- **Birx**: Civil society plays a critical role
- **Lansky**: NHAS as national plan not Federal plan; Community Action Plan Framework
Multi-sectoral Coalitions to Advance HIV Prevention

San Francisco “Getting to Zero” Coalition (Liu Plenary)

St. Louis Coalition to Advance PrEP Delivery (Mayer Plenary)
DATA will GUIDE THE WAY and IMPROVE OUR EFFORTS
Data-Driven Approaches

- Bruce Agins May 9 Plenary: Harnessing data to guide local, state, and national HIV initiatives
  - Data-to-Care efforts
  - Quality improvement
  - Care continuum dashboards
  - EMRs and provider alerts

- Examples
  - Lansky: NHAS indicators
  - Nash: NYS End-the-Epidemic (ETE) Dashboard
Agins Plenary: Quality Improvement

Linking QI with Public Health Outcomes
Care system data:
Valuable and complex

Michael Horberg May 9 Session:
Big Data Approaches
Increasing Data Impact

• **Bruce Agins Plenary:** Quality and impact of data-driven approaches are strengthened through public health, clinic, and & CBO partnerships

“When spider webs unite, we can tie up a lion.”
– African proverb
Geographic Targeting

• Example from IAPAC Fast Track Initiative: Mapping HIV infections and resources in Paris

• United States: AIDS Vu
PREP USE AND DELIVERY RESEARCH
PrEP and “Seasons of Risk”

Research is finding that PrEP use/adherence is responsive to ongoing degree of risk.

Alex Gonzalez May 10
breakfast session on PrEP
Pioneering PrEP Services

MODELS OF PREP INTEGRATION

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<td>Miami-Dade County Health Department PrEP Demo Project</td>
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<th>Primary Care (CARE INFRASTRUCTURE)</th>
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<td>Whitman-Walker Health Center (DC)</td>
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PrEP for young MSM in an HIV Clinic Setting

Value of PrEP Specialists

169 PrEP and Sexual Health Services for Young Urban Men who have Sex with Men

Michael D’Arata¹, Jessica Horwitz¹, Rebecca Packard², Kristin Kennedy¹, Xavier Erguera², Robert Grant², Jeff Burack¹, Mi-Suk Kang Dufour², Ifeoma Udoh³, Kimberly Koester², Janet Myers (presenting)², Remi Frazier²

130 The Important Role of the PrEP Specialist in a Multidisciplinary Team Approach to PrEP at a Community Health Center

Sally Holt

Alex Gonzalez
May 10 breakfast session on PrEP
Monitoring PrEP Adherence

Various modalities show success/promise

Urine Screens

Propective Use of Urine Tenofovir Assay to Monitor Adherence to PrEP

Helen Koenig (presenting)1, Linden Lalley-Chareczko1, Ganesh Moorhy2, Devon Clark1, Caroline Sloan3, Pablo Tebas4, S. Caitlin Conyngham1, Karam Mounzer1, Giffin Daughtridge5, Athena Zupp2, Jessica Sima2

Self Report

Adherence to PrEP among HIV-Negative Women Attemping Conception with HIV-Positive Male Partners in the United States

Emily Stinnett Miller1, Margaret Sullivan2, Mari-Lynn Drainoni3, Jenell Coleman4, Helen Koenig4, Howard Cabral5, Peter Anderson6, Ashley Leech3, Erika Aaron (presenting)7

Text messaging

Short Message Service (SMS) Surveys Assessing Pre-Exposure Prophylaxis (PrEP) Adherence and Sexual Behavior are Highly Acceptable among HIV-Uninfected Members of Serodiscordant Couples in East Africa

Elly Katabira1, Jared Baeten2, Bridget Burns3, Nelly Mugo4, Renee Heffron2, Jessica Haberer3, Grace Kimemia5, Betty Nankya1, Kenneth Ngure5, Timothy Muwonge (presenting)1

Prevention-Effective Adherence per Short Message Service (SMS) Surveys within a Demonstration Project of Pre-Exposure Prophylaxis (PrEP) among HIV Serodiscordant Couples in East Africa

Jared Baeten1, Connie Celum1, Renee Heffron1, David Bangsberg2, Bridget Burns2, Nicholas Musinguzi3, Lara Kidoguchi1, Elly Katabira4, Nelly Mugo5, Timothy Muwonge4, Kenneth Ngure6, Jessica Haberer (presenting)2
Multilevel PrEP Barriers

Insurance and healthcare access affect PrEP use

Racial disparities in insurance, provider, & individual factors

Provider Heterosexism

Enhancing PrEP Access for Black and Latino Men who have Sex with Men

Corina Lelutiu-Weinberger (presenting), Sarit Golub

Adverse Implications of Heterosexism for PrEP Clinical Decision-Making and Considerations Regarding Provider Education

Sarah Calabrese (presenting), Kenneth Mayer, Douglas Krakower, Manya Magnus, Kristen Underhill, Valerie Earnshaw, Nathan Hansen, Trace Kershaw, Joseph Betancourt, John Dovidio
Gaps in the PrEP Cascade

Liu: San Francisco PrEP Cascade
THINKING BIGGER ON PREVENTION

Jeremiah Johnson Plenary
- Developing a prevention continuum
- Advancing comprehensive HIV prevention service delivery

Sex Positive Plenary Panel
- Toward sexual well being, away from disease
- Dazon: #PrepFlixAndChill

Catherine Hanssens Plenary:
- HIV transmission criminalization is wrong and counterproductive
RESEARCH ON HIV CARE LINKAGE, RETENTION, & RE-ENGAGEMENT
Depression and Substance Abuse
Challenge Engagement/Retention

204 The Effect of Depression on Missed HIV Medical Visits among Patients in the CFAR Network of Integrated Systems (CNICS) Cohort in the United States

Brian Pence (presenting), Angela Bengtson, Stephen Cole, Heidi Crane, Bradley Gaynes, Amy Heine, Chris Mathews, Richard Moore, Sonia Napravnik, Conall O’Cleirigh, Steven Safren, Michael Mugavero

29 Factors Associated with Medical Care Engagement, ART Adherence, and Viral Suppression among Persons Living with HIV (PLHIV) in St. Petersburg, Russia

Yuri Amirkhanian, Jeffrey Kelly (presenting), Anna Kuznetsova, Wayne DiFrancesco, Alexei Yakovlev, Timothy McAuliffe, Sergey Tarima, Anastasia Meylakhs

156 Substance Use and the HIV Care Cascade: Findings from an HIV Community-Based Test and Treat Initiative

Anita Raj, Jeffrey Samet, John Edmiston, Sankari Ayyaluru, Daniel Triplett, Jennifer Yore, Lianne Urada, Pamela Schwartz, Laramie Smith (presenting), Alexandra Caraballo

158 Testing and Linkage to Care for People Who Inject Drugs (PWID) in Kenya: Challenges and Successes

Ann Kurth, Peter Cherutich, Helgar Musyoki, Charles Cleland, John Lizcano (presenting)
Can we proactively identify those at risk for falling out of care?
Improving Data-to-Care

190 New York City’s Efforts to make Data to Care More Efficient: Lessons for other Jurisdictions
Shakara Brown (presenting), Chi-Chi Udeagu

127 Lessons Learned in the Provision of Technical Assistance to Health Departments on Using HIV Surveillance Data to Improve the HIV Care Continuum
Michele Clark¹, Vasavi Thomas², Rhondette Jones², Kathleen Ruth (presenting)²

180 Identifying Out-of-Care Key Populations in Tijuana, Mexico: A Comparison of Data-to-Care and More Traditional Methods
Eileen Pitpitan¹, Rebeca Cazares², Laramie Smith (presenting)¹
¹ University of California San Diego, CA, USA
² Universidad Autónoma de Baja California, Mexicali, Mexico
Room for Improvement in Retention Support Strategies

Only 1 in 5 providers work in facilities that provide 5 recommended retention services.
Changing Care Delivery Instead of People

**Public Health – Seattle & King County**

- **Health Department-Based**
  - Surveillance-based outreach and re-linkage assistance* (Stepped wedge cluster randomized trial showed no effect)

- **Clinic-Based**
  - HIV Clinic Surveillance-Informed Patient Tracing*
  - ER & Hospital Automated data match with real-time text message to public health re-linkage team

- **MAX Clinic**
  - for persons who do not engage in traditional HIV care despite

**The MAX Clinic**

- **Eligibility**
  - Off ART & poorly engaged in care
  - Failure to engage in care and treatment after outreach
  - Identified through surveillance or referred from provider, case manager or peers

- **MAX Clinic**
  - Located in county STD Clinic
    - Walk-in care 5 afternoons per week
    - Case coordinator – intensive support & outreach
    - Cell phone distribution & text message communication
    - Snacks and meal vouchers
    - Unrestricted bus passes
    - Financial incentives for visit adherence ($25) and

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**The MAX Clinic: A Structural Healthcare Systems Intervention Designed to Engage the Hardest-to-Reach Persons Living with HIV/AIDS**

Dawn Spellman¹, Matthew Golden¹, Robert Harrington², Shireesha Dhanireddy², Rachel Patrick¹, Allison Moore¹, Meena Ramchandani², Julia Dombrowski (presenting)²
Efforts to improve linkage and retention

Respondent Driven Sampling

Multicomponent

Point of care CD4

Patient Navigation
ART ADHERENCE RESEARCH
Long acting ART regimens in development

New Directions in HIV Treatment: Implications for Antiretroviral Therapy Adherence

Benjamin Young, MD PhD
International Association of Providers of AIDS Care
Washington DC

Adherence 2016
May 9-11, 2016
Fort Lauderdale

Long acting ART regimens in development

Ben Young Plenary, May 10
Gaming approach for improved ART adherence in youth

Includes Wisepill-generated bonuses & level-ups
Individually tailored counseling and group clinical visits to promote adherence among PLWH of color.
Supporting Autonomy and Choice

16 Increasing Antiretroviral Therapy Initiation among those who have Delayed, Declined, or Discontinued Medication: Applying Critical Race Theory to Understand Barriers and Inform Intervention Strategies

25 PLWHA who Delay, Decline, or Discontinue ART: A Mixed Methods Study to Understand the Mechanisms of Action of a New Efficacious Intervention to Increase ART Initiation

Addressing ART initiation through
-Support for autonomy/choice
-MI to foster personal decision making
-Acknowledging racism and historical Culturally appropriate elements
Structural Constraints

**Employment**

177 Predictors of Retention in HIV Care and HIV Viral Load Suppression One Year After being Hospitalized while out of HIV Care

Melinda Stanley¹, Michael Kallen², K. Rivet Amico³, Jessica Davila⁴, Christine Hartman⁵, Thomas Giordano (presenting)⁶

**Transportation**

136 Cars, Chaos, and Grief: Women of Color Report Reasons for Missed HIV Care Visits

Lynne Messer⁷, Katya Roytburd⁸, Tyffany Evans Coleman⁹, Miriam Berger⁵, Heather Parnell⁶, Kristen Sullivan⁴, Anna Finestone LeViere (presenting)²

**Food Insecurity**

155 Socio-Structural and Psychosocial Factors Associated with Antiretroviral Therapy Adherence by Gender in British Columbia, Canada

Robert Hogg¹, Cari Miller², Angela Kaida², Cathy Puskas (presenting)²

**Survival Needs**

173 Survival Needs and ART Adherence among Young HIV-Infected MSM of Color in Oakland

Kristin Kennedy¹, Jeff Burack¹, Ifeoma Udoh², Kimberly Koester, Remi Frazier, Mi-Suk Kang Dufour, Janet Myers (presenting)³
Addressing Social and Structural Challenges

**Trauma Informed Care**

160 Improvements in HIV-Related Outcomes among Homeless HIV Patients Using an Intensive Trauma-Informed-Care-Based Intervention
Yasmeen Quadri¹, Nancy Miertschin², Siavash Pasalar³, Charlene Flash⁴, Jessica Davila (presenting)¹, Thomas Giordano¹

24 Stable Housing Placement and Viral Suppression after Rapid Rehousing for Homeless Persons with HIV: Data for Action from the Enhanced Housing Placement Assistance (EHPA) Randomized Controlled Trial in New York City
Ellen Wiewel (presenting)¹, Vivian Towe², John Rojas¹, Joanne Hsu¹, Yaoyu Zhong¹, Laura Holloid¹, Jesse Thomas³, Rachel Johnson⁴

146 Improved Adherence to Care and Treatment for People Living with HIV and Participating in a Comprehensive Nutrition Food Support Program in the San Francisco Bay Area: A Longitudinal Qualitative Study
Kartika Palar¹, Simon Pitchford², Kimberly Madsen², Edward Frongillo³, Fredrick Hecht¹, Nikhil Ranadive⁴, Loulou Chayama¹, Tessa Napoles¹, Sheri Weiser¹, Lee Lemus Hufstedler (presenting)¹

**Housing Assistance**

**Food Support**
Going forward: Critical to Address Stigma

| Day-level associations between internal stigma & ART adherence | HIV stigma in healthcare settings predicts viral suppression |

*The Critical Influence of Daily Experiences of Internalized HIV Stigma on Medication Non-Adherence for HIV-Positive Gay and Bisexual Men*

H. Jonathon Rendina (presenting), Jeffrey Parsons¹, Steven Safren², Sitaji Gurung¹

*HIV-Related Stigma in Healthcare Settings and Health Outcomes among People Living with HIV*

Bulent Turan (presenting), Robin Lanzi, Janet Turan, Whitney Smith
Getting to Zero Stigma

- Sigurdson Plenary:
  Mapping the people living with HIV Stigma Index

People Living with HIV Stigma Index

- Implemented in over 80 countries, with over 75,000 PLHIV interviewed to date.
- Led by GNP+ and ICW – community-led data to drive advocacy, influence programming and investments, improve quality of services.
- Process is as important as the data – empowers and builds capacity of individuals and implementing organizations.
The Power of the Human Element
Robert Remien:
Reiter/Kaplan Memorial Lecture

Ending AIDS:
Considering the Human Element
Robert H. Remien, Ph.D.
Director: HIV Center for Clinical and Behavioral Studies
Professor of Clinical Psychology (in Psychiatry)
Columbia University and
New York State Psychiatric Institute
The power of strong relationships between patient and provider
The power of one

(Atypical) Case Study

- Gay male in early 20's → NYC in 1977 to attend Graduate School
- 1977: volunteered in NYC Blood Center Hepatitis B efficacy vaccine trial
- 1984: discovered HIV+ antibody status - dating back to a seroconversion in 1980 - by testing stored serum
- 1990's: labeled a “long term non-progresor;” Dr. David Ho; Aaron Diamond; NEJM seminal paper (1 of 100000; 1 of 1000000)
- 2000: after 20 years - rising VL; decline in CD4
  - ART recommended; patient resisted; eventually
- Surviving & Thriving (36 years with HIV)
Thank you!

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