

6 AUSTRALASIAN  
16 HIVAIDS  
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16-18 NOVEMBER 2016 | ADELAIDE, AUSTRALIA



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Supporting the HIV, Viral Hepatitis  
and Sexual Health Workforce

# CONFERENCE REPORT



*“The research presented at the Australasian HIV & AIDS Conference has a profound impact on policy, helping to forge evidence-based responses to HIV in our region. We urge you to read and share this report, so that our national and regional programs continue to be guided by latest research, and the collaborative efforts of community, clinicians and researchers.”*

**Adjunct Associate Professor Levinia Crooks AM**  
Chief Executive Officer – ASHM

### **A note about the report:**

The purpose of this report is to capture highlights from the [2016 Australasian HIV & AIDS Conference](#) and to provide a tool to share research presented there. Only a small number of research papers are included. For the full list of presentations please visit the [Conference Program page](#), and click on the ‘more info’ tabs for links to abstracts and presentations.

Within this document, [research paper titles underlined in orange](#) are hyperlinked to related abstracts. Presentation slides are also included where available.

We hope you enjoy the report and encourage you to share it widely with colleagues.



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Supporting the HIV, Viral Hepatitis  
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**Bridget Haire, AFAO President and post-doctoral research fellow, the Kirby Institute**

“Our states and territories differ considerably when it comes to providing an enabling environment for health. This is a real problem, given that the commonwealth is disinvesting, particularly in the community sector.”

**Associate Professor James Ward, South Australian Health and Medical Research Institute**

“These statistics regarding HIV in Aboriginal and Torres Strait Islander peoples are Australia's wake up call. The danger of HIV spreading within communities with such a high prevalence of STIs is simply too great to be ignored.”



**Dr Jared Baeten, Vice Chair and Professor, University of Washington, USA**

“There is an encouraging pipeline of new PrEP prevention products that will deliver additional options. However, we would be naïve to imagine that any one of these will work or be workable for every person.”

**Robert Mitchell, Vice President NAPWHA**

“If we are to change the trajectory of HIV transmissions, we must remove the barriers to testing and treating. We have all the tools at our disposal; we have the knowledge and we have the expertise. What we need is the political will. Australia is close to virtually eliminating HIV; now is not the time to ease back, we must push forward.”



## OVERVIEW FROM AUSTRALIA

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### OPENING PLENARY

#### **Bridget Haire, AFAO President and post-doctoral research fellow, the Kirby Institute**

“This conference is an unparalleled opportunity for us to get together – community, clinicians and researchers – and really focus on the key issues that face us in our national and regional response to HIV. And there's a lot that we need to talk about:

- In 2016 in Australia, we have the tools to end the epidemic, but these are selectively and unequally distributed. States and territories differ considerably when it comes to providing an enabling environment for health.
- The lack of a unified national approach for HIV is troubling.
- National community peak organisations have experienced dire funding cuts that threaten our world famous partnership between community, research and government.
- We need to continue to advocate for nationally based approaches to HIV care and prevention, and to ensure that disadvantaged populations get the attention they need and deserve.

[Read Bridget Haire's welcome to the 2016 Australasian HIV & AIDS Conference.](#)

# OPENING PLENARY: HIV DIVERGENCE

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**Associate Professor James Ward**, Head Infectious Diseases Aboriginal Health, South Australian Health and Medical Research Institute, SA, Australia (SAHMRI)

## HIV RATES IN INDIGENOUS AUSTRALIANS AT ALL TIME HIGH

### **Australia's HIV and Hepatitis C success overshadowed by Aboriginal and Torres Strait Islander neglect**

New [national statistics](#) released from the 2016 Australasian HIV & AIDS Conference revealed that HIV in Aboriginal and Torres Strait Islander people are at an all-time high, with 2015 seeing the highest number diagnosed with HIV since 1992.

The rate of HIV notification among Aboriginal and Torres Strait Islander people is now more than double the rate in non-Indigenous Australians, and has increased each year for the last five years.

Other sexually transmissible infections in Indigenous Australians such as chlamydia, gonorrhoea and infectious syphilis are on average 3, 10 and 6 times higher respectively, and hepatitis C is 4 times higher. The gap even more significant in some remote communities.

*"This is absolutely unacceptable,"* said Associate Professor James Ward, South Australian Health and Medical Research Institute (SAHMRI). *"At a time when Australia is showered in praise for being a world leader in HIV and hepatitis C prevention, one of our priority populations is being left behind."*

- [Read the full media release.](#)
- [Watch James' live interview on ABC TV News.](#)
- [View the media coverage book](#) for links to additional coverage on this topic.

In his opening plenary, James Ward examined why this divergence is occurring and who is most affected:

- Demographics (young, mobile and more regional and remote residents)
- Risks (sharing of injecting equipment, high background prevalence of STIs)
- Success in non-Indigenous diagnosis
- Failure to engage TasP and PrEP in community

### **Key Messages re HIV in Aboriginal and Torres Strait Islander Populations**

- HIV is increasing
- We're at a critical point in the epidemic
- Engaging in PrEP and TasP will take significant time and investment of all sectors
- Combination prevention will still be required for some time to come
- It's all our responsibility but Aboriginal and Torres Strait Islander peoples need to drive it.

*"We need to be very strategic. There is a need for a national strategy for the Aboriginal Medical Services sector to ensure all jurisdictions are on the same page. If we could get everybody who should be tested, tested within the appropriate timeframe and in an appropriate manner then I think we would be doing very well. Right now, these advances in medicine and technology are creating a bigger divergence in HIV diagnosis. New technologies benefit and advance the most privileged and leaves the marginalised behind."*

- [View the presentation slides](#)

# HIV SURVEILLANCE REPORTS - 2015 DATA

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## **THE KIRBY INSTITUTE: ANNUAL HIV SURVEILLANCE REPORT – Key findings 2015**

- Number of new HIV notifications stable for 4 years, with 1 025 new infections in 2015.
- Breakdown of notifications:
  - 68% gay and bisexual men (GBM);
  - 20% heterosexual sex;
  - 5% sexual contact between men and injecting drug use;
  - 3% injecting drug use only.
- 29% of new notifications classified as late diagnoses; that is, they were likely to have had HIV for at least 4 years without being tested.
- Proportion of late diagnoses in GBM / GBM + IDU has declined (27% to 20%).
- HIV notification in Aboriginal and Torres Strait Islander people is more than double the rate in the Australian-born non-Indigenous population (6.8 versus 3.1 per 100 000). Transmission through heterosexual sex (21%) or IDU (16%) in this population is higher.

### **Prevalence**

- 0.1% of Australians are living with HIV.
- HIV prevalence remains very low in people who inject drugs (PWID).

### **Testing and Care**

- ≈ 25 313 Australians are living with HIV. Of these, 90% have been diagnosed, 85% are in care, 75% are receiving ARVs, and 69% have achieved viral suppression.
- In the past five years, testing coverage has increased significantly in GBM with 61% reporting an HIV test in the past 12 months.
- Testing frequency in GBM attending clinical services (ACCESS) has also increased from an average of 1.1 HIV tests per year in 2011 to 1.4 in 2015.

### **HIV Incidence**

- HIV incidence remains extremely low among female sex workers, with no HIV cases detected in the past 2 years.

## **ANNUAL REPORT OF TRENDS IN BEHAVIOUR – HIV 2016**

### **UNSW's Centre for Social Research in Health**

- The high proportion of HIV+ GBM on ARVs is making treatment as prevention a reality.
- HIV prevention is growing in complexity with breadth of prevention tools available.
- Apart from consistent condom use, GBM look to other prevention strategies to avoid acquiring HIV.
- Condomless anal sex with casual partners has increased among GBM, particularly under 25s.
- Increase in STIs brings new challenges.
- Urgent need for HIV prevention messages to reflect expanding approaches gay men find most suitable. Messages should include biomedical and behavioural tools and address diverse groups of gay men.

*“While high rates of treatment uptake and condom use among gay men must be sustained, priorities should be given to make new prevention tools, like PrEP, more accessible through reimbursement on the Pharmaceutical Benefits Scheme (PBS).”*

**Associate Professor Martin Holt, the project leader of the Gay Community Periodic Surveys at CSRH.**

# TESTING, TREATMENT & CASCADE OF CARE

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Australia's HIV epidemic continues to be predominantly in men who have sex with men, with stable rates in the past ten years. Overall, initiatives to promote and improve access to testing have achieved higher levels of testing coverage and frequency and reduced the proportion diagnosed late with HIV. Treatment coverage has increased considerably, and there has been a corresponding increase in the proportion of people with undetectable viral load, decreasing the chance of HIV transmission.

## ***Annual Surveillance Reports 2016***

### **TAKE HOME MESSAGES**

#### **Professor Jennifer Hoy, HIV Medicine, Alfred Hospital/Monash University**

1. We need to facilitate increased frequency of HIV testing in gay and bisexual men (GBM) in Australia.
2. We need timely and better quality data to understand the cascade in Australia.
3. We need to urgently address increasing HIV infections in the Indigenous population, and urgently provide culturally appropriate, geographically accessible and Indigenous-led prevention packages.
4. Rates of ARV treatment in those who know they are HIV positive are less than UNAIDS 90:90:90 targets, while rates of virological suppression have reached targets.
5. Rates of new HIV infections in Australia remain stable, despite increases in testing and treatment.

## TESTING

### **Overview:**

- Overwhelming majority of testing in Australia continues to occur in primary care settings, by clinicians using serological laboratory testing.
- We don't know how much we might need to increase testing by but probably a lot.
- Will require innovation in HIV testing models
- So far, PoCT has made a small but critical contribution to the increase in HIV testing in Australia.
- Most men say they are likely to test more often if self-testing available.
- Australia has been very behind the times with HIV PoCT - other countries are moving forward with self-test programs.
- There are a number of new PoCT tests on the horizon, including nucleic acid tests.

### **What we know about testing:**

- Guidelines (STIGMA) recommend annual testing in all GBM; 3-6 monthly testing if high risk.
- 27% increase in HIV testing in the last 5 years.
- 87% GBM have ever tested (GCPS).
- 53% re-test in 12 months (ACCESS NSW 2014).
- 54% higher risk men re-test in 6 months (ACCESS NSW 2014).
- 10-12% HIV undiagnosed (Holt 2014; Mallitt 2012).
- 31% infections transmitted by undiagnosed (Wilson 2009).
- 50% people surveyed from CALD background in NSW ever tested (CALD survey).

## Self-Specimen Collecting

- NSW pilot study just launched for self-specimen collection with laboratory testing:
  - Mail out collection kit for Dried Blood Spot (DBS) testing in priority populations. Specimens posted to lab.
  - GBM and people from African + Asian countries, and/or have had previous sexual or injecting partner from one of these countries are now able to [order it for free in NSW](#).
  - The project is a partnership between the Sexual Health Infolink, St Vincent's HIV Reference Laboratory and the Ministry of Health Service.
  - Mail out DBS has been available in the US since 1996 and performed very well in the UK.
  - Involves conventional laboratory confirmation including nucleic acid tests.

## Self-Testing (immediate results)

- Self-tests currently on the market in other countries include those that involve capillary blood specimens and oral fluid specimens.
- From a regulatory and program implementation approach, the development of self-testing in Australia needs to consider the cost-benefit of adopting lower performance tests that are less invasive and potentially more acceptable (oral fluid tests) versus higher performance tests that are more invasive and potentially less acceptable (blood specimen).
- The balance for HIV prevention is ensuring infections are not missed (performance of tests) while expanding the reach and frequency of testing (acceptability of tests).
- [BioSure HIV self test](#) is an example of a self-test available in the UK that does not require lab testing.

## Community Testing

- Only about 60 PoCT services currently registered in Australia on the [ASHM Testing Portal](#).
- 10 community-based services.
- Integrating STI testing and parallel HIV serology has been an issue.
- Challenge is in identifying acute not established infections.
- Conclusion:
  - Key for standalone rapid tests (through service or at home) is frequency
  - PoCTs may be "less sensitive than a 4th generation assay but more sensitive than a test that doesn't happen".

## RELATED RESEARCH

### Innovative ways to improve the demand for testing – update on the technology and review of programs and novel implementation opportunities

**Philip Cunningham; Mark Stooze**

- An overview of latest developments in PoCT, self-testing and lab innovation.

### a[TEST] Oxford Street: A Successful Model of Community Rapid HIV Testing in Sydney / Effect of an Express Testing Service for Gay and Bisexual Men on HIV Testing Frequency

**Vickie Knight, Sydney Sexual Health Centre**

- Service attendees complete demographic/risk questionnaires via computer assisted self-interview. Peer educators offer a HIV rapid test and self-collected STI tests and the nurse performs concurrent HIV/syphilis serology. The HIV rapid test results are given within 10 minutes and others sent via text, phone or email.
- Of 5388 GBM attendees, 5011 (93%) had an HIV test performed. 46 were newly positive (0.9%) and 643 (11.9%) were diagnosed with at least one bacterial STI. Almost one third (31%) reported more than five partners in the previous three months and approximately half (44%) reported inconsistent condom use with casual partners.

# TREATMENT & CARE CASCADE

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## Key Messages: Ethical considerations in treatment culture

- The decision to start treatment is a personal one, it should be an informed one, and made with the health care provider.
- Starting treatment on the same day as HIV diagnosis is associated with reduced period of infectiousness, but increased rates of regimen change and disengagement from care.
- Peer support is very important in decision making around treatment, and in providing support when treatment starts.

## RELATED RESEARCH

### Mind the gap: Progress towards treatment for all and its impact on prevention

#### **Keynote Speaker Dr Valerie Delpech**

- CD4 counts are still important. It's not good enough to put everyone diagnosed on treatment: it needs to be early. Without CD4 count you won't know how long they've been carrying the disease.
- Treatment as prevention is reducing incidence but we also need investment in primary prevention.
- Globally, HIV data is very poor.
- Some countries are making great progress towards viral suppression but for others it's out of reach.
- In Eastern Europe the majority of new infections are now in heterosexuals (used to be PWID).
- Currently, we're at about 50% of diagnosed targets, 40% on treatment targets so have a long way to go before we reach UN targets of 90:90:90.

### You have HIV and you must start treatment today" - how urgent is the need to start?

#### **Prof Jennifer Hoy, Professor Director, HIV Medicine, Alfred Hospital and Monash University**

- Same day ART should be facilitated for those who request it.
- ART initiation should occur when the individual is ready to start – informed decision.
- Most clinicians prefer being armed with baseline test results to individualise ART – this takes 1-3 weeks – this time does not make a significant difference to outcomes, either personal or HIV prevention.

### Comparing HIV Viral Load and CD4 Counts for People Retained in Care to People with Unknown Outcomes

#### **James McMahon, Alfred Health and Monash University**

- People with unknown outcomes - including those who re-engage or transfer care - are at risk for worse clinical outcomes and onward transmission. These individuals should receive interventions to improve virological suppression across this population. *View the [presentation slides](#).*

### Women, Those Who Inject Drugs + Younger People More Likely to Have 'Detectable' Viral Loads

#### **Denton Callander, The Kirby Institute**

- Women, younger people, and IDU are more likely than other patients to have a detectable viral load, suggesting that they may require further support to maintain HIV treatment. Collaborative solutions to improve treatment adherence are warranted. *View the [presentation slides](#).*

### Fall in Time from HIV Diagnosis to Commencement of Antiretroviral Therapy 2011-2015

#### **Nicholas Medland, Melbourne Sexual Health Centre, Central Clinical School, Monash University**

- Time to ART is a convenient and readily available indicator which centres should consider to supplement HIV care cascade results, to measure progress toward treatment as prevention goals. This study looked at significant reduction in time between diagnosis and treatment initiation in 2 clinics in Melbourne.

# PrEP

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More than 27,000 Australians are living with HIV and PrEP is a potential game-changer, but it can be frustratingly difficult to access. In August 2016 the PBAC rejected the application by Gilead Sciences to list Truvada for PrEP on the Pharmaceutical Benefits Scheme (PBS), saying price submitted by the sponsor was too high.

AFAO says the federal government will not meet its target of ending HIV transmission by 2020 unless PrEP is subsidised through the PBS.

- Read ASHM's [announcement on the PBAC's rejection](#)
- Read an [update on PrEP for clinicians](#)
- Find out about 3 ways to [access PrEP in Australia](#)

## TAKE HOME MESSAGES

**Associate Professor Martin Holt, Centre for Social Research in Health, UNSW**

1. International experience indicates PrEP is highly effective, but broadening access and managing STIs remain hot topics
2. In Australia, growing use of PrEP by thousands of mainly in NSW/VIC, but we are waiting to see effects on the epidemic.
3. In Australia, poor access outside NSW/VIC is preventing wider benefits of PrEP being realised.
4. PrEP users report profound relief from anxiety about HIV, greater security in being HIV-negative when on PrEP.
5. The roll out of PrEP is making condom use/negotiating sex more difficult for some; identifying successful ways to negotiate combination prevention is important.

## RELATED RESEARCH

### **PrEP at age 6**

**Keynote Speaker: *Dr Jared Baeten, Vice Chair and Professor, University of Washington, USA***

- International experience indicates PrEP is highly effective, but broadening access and managing STIs remain hot topics. [Read the ASHM Report back.](#)

### **It's taken a village: PrEP in Victoria**

***Edwina Wright, Infectious Diseases Specialist, Alfred Health, VIC***

- Growing use of PrEP in VIC (by thousands of mainly GBM) – waiting to see impact on epidemic.

### **Targeted implementation of PrEP in NSW**

***Iryna Zablotska-Manos, The Kirby Institute***

- Massive uptake (over 4000) of PrEP in NSW by people at high risk. No HIV infections, but increased condomless sex and STIs.

### The changing experiences of negotiating sex with (potential) partners for men using PrEP

Dean Murphy, Research Fellow, Centre for Social Research in Health, UNSW, Australia

- PrEP users report profound relief from anxiety about HIV, greater security in being HIV-negative when on PrEP. PrEP also represents a strategy through which a more active consumer of prevention emerges.

### Do we have the courage and ambition to end HIV in Australia? Examining our progress and prospects through the case of PrEP

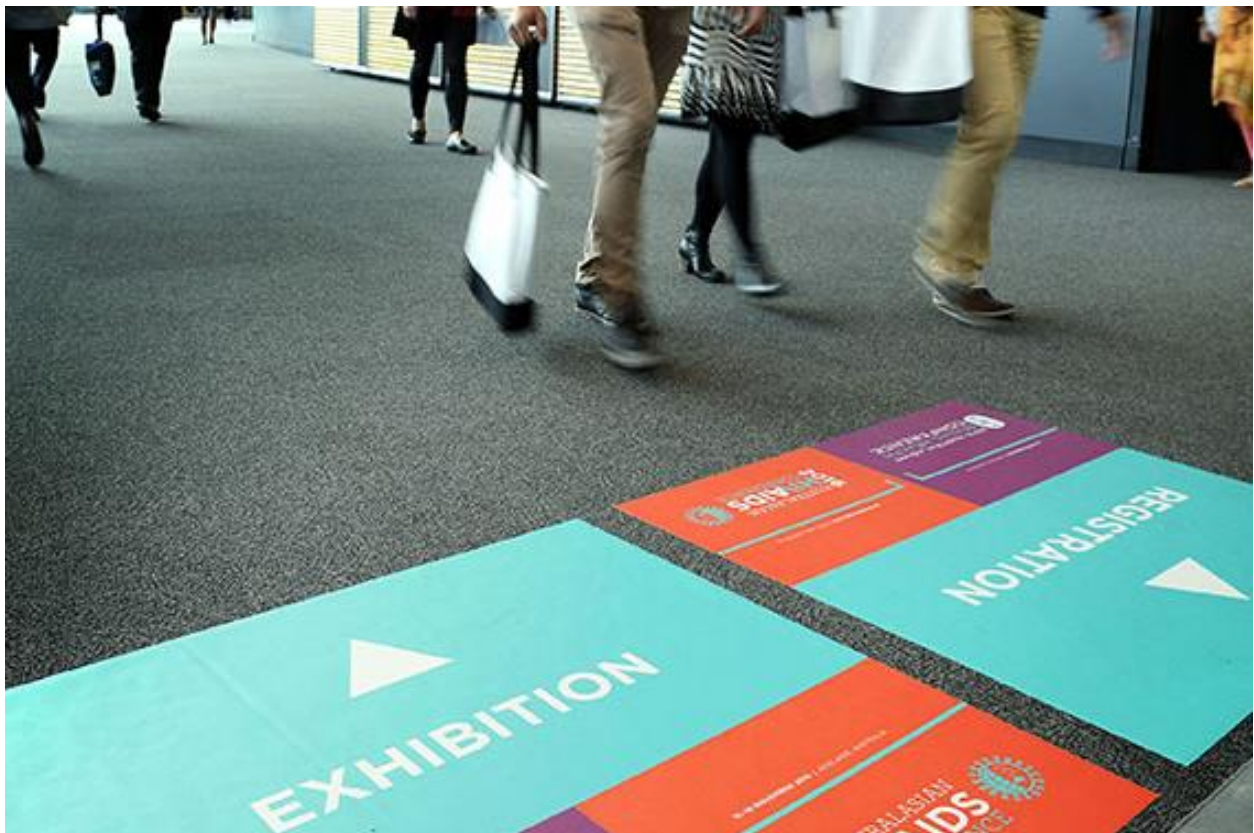
Darryl O'Donnell, Australian Federation of AIDS Organisations (AFAO), Australia

- Demands for better testing options and technologies, PrEP, and easier, cheaper access to treatment, has seen renewed focus on supply-side problems in HIV. In Australia, poor access outside time-limited State and Territory clinical trials is preventing wider benefits of PrEP being realised. Considerable advocacy work remains.

### What PrEP Means for Safe Sex in Sydney: Evolving Norms

Bridget Haire, Kirby Institute.

- While PrEP has been readily adopted by some gay men, others are grappling with new framings of 'safe sex' and the development of new norms, making condom use/negotiating sex more difficult for some. View the [presentation](#) slides.



# SCIENCE/CURE RESEARCH

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## TAKE HOME MESSAGES from Professor Damian Purcell, Doherty Institute

1. Epigenetic modifying drug, Vorinostat, increased RNA expression of numerous cellular genes in addition to HIV. However long-term follow-up showed that gene expression returned to normal after 24 months, supporting safety of the histone deacetylase inhibitors.
2. New drug candidates are under development that are highly specific for activation of HIV gene expression.
3. Genetic therapies that lock HIV into a dormant state without any expression are advancing through pre-clinical testing.
4. Scientists working in HIV-1 cure acknowledge that a successful curative therapy for everybody is 10-15 years away.
5. Significant advances have been made with HIV vaccines to prevent transmission for the uninfected.

## Where are we with the Cure? Science, Trials and Community – Key Messages

- It's going to take a long time before we develop HIV-curative therapies that eliminate the residual levels of HIV.
- Drugs currently under investigation generally lack sufficient HIV-specificity and potency to reveal latent HIV for clearance.
- Gene therapy approaches are in development to silence the relatively small amount of residual replication competent HIV.
- Approaches that evoke potent anti-HIV immune effector responses show promise in prevention and HIV cure.

## HIV Persistence and Latency – Key Messages

- HIV vaccines based on poxvirus vectors are showing promise for prevention of transmission, and for control of HIV during infection.
- New assays to measure antibodies capable of directing ADCC-mediated killing of infected T-cells will help in assessing HIV vaccine candidates and eliminating latent HIV infected cells.
- HDACi drugs have effects on many cellular genes, in addition to HIV-1, but changes in gene expression normalise during long term follow up.

## RELATED RESEARCH

### What is the Science Telling Us?

*Prof Anthony Kelleher, Kirby Institute, NSW, Australia*

- The levels of latent HIV capable of reactivating infection after interruption of therapy are very small. Genetic therapies that lock this subset of latent HIV into dormant state are advancing towards through pre-clinical testing.
- This is an exciting technology, but uses a very sophisticated gene therapy delivery system that will be too expensive to scale up for universal access.

### What do the Clinical trials and cohorts tell us?

*James McMahon, Alfred Health and Monash University*

- It is difficult to find the latent HIV that has capacity for replication competence. Current drugs that have completed trial have been encouraging, but have too low a specific activity for HIV to be successful cure therapies at this time. View the [presentation](#) slides.

### Antimicrobial and Immune Modulatory Effects of Vaginal Microbiota Acid Metabolites and HIV Susceptibility

*A/Prof Gilda Tachedjian, Associate Professor, Burnet Institute, Australia*

- The commensal microbial flora plays an important role in the susceptibility for HIV transmission to women. Lactic acid from some bacteria is protective.

### Examining the Role of Human Dendritic Cells in Mediating Sexual Transmission of HIV

*Andrew Harman, The Westmead Institute for Medical Research, The University of Sydney*

- Different dendritic and macrophage subsets in the different regions of the sexual mucosae are responsible for mediating HIV transfer to CD4+ T-cells during HIV transmission. View the [presentation](#) slides.

### HIV vaccine-induced protective antibodies: lessons from the sacred cow

*Damian Purcell, The Doherty Institute*

- Large scale production of HIV-neutralising antibody has been obtained from colostrum of cows vaccinated with HIV gp140 trimers. This has produced sufficient antibody to produce a preventive vaginal microbicide for clinical trials in women.

### New Latency Reversing Agents specifically targeting HIV provirus positive cells

*Jonathan Jacobson*

- New compounds that specifically reactivate HIV from latency act on novel targets + are synergistically active with some of the known latency reversing agents that target epigenetic control pathways.

### Partial efficacy of a broadly neutralizing antibody against cell-associated SHIV infection

*Kevin John Selva, The Peter Doherty Institute for Infection and Immunity*

- New plate based assay for antibodies that perform ADCC functions. These use soluble protein components to identify antibodies that correlate with HIV protection in the RV144 vaccine trial.

### What's in it for me? Balancing hope and healthy scepticism about HIV cure research

*Brent Allan, Executive Officer, Living Positive Victoria*

- Scientists working in HIV-1 cure acknowledge that a successful curative therapy for everybody is 10-15 years away.

### Novel HIV-1 glycoprotein vaccine with enhanced exposure of broad neutralization epitope

*Andrew Pombourious*

- Made an HIV Envelope gp140 trimer vaccine that was successful in raising neutralising antibodies in animal studies.

### No adverse safety or virological changes 2yrs following a short course of vorinostat in HIV-infected individuals on ART

*Talia Mota, Peter Doherty Institute of Infection and Immunity*

- Clinical trial with Vorinostat demonstrated an increased expression of HIV RNA as well as RNA transcribed from numerous other cellular genes. However gene expression levels returned to normal after long term follow up, supporting safety of the histone deacetylase inhibitor (HDACi) class of epigenetic modifying drugs.

### Pre-clinical evaluation of a mucosal HIV vaccine strategy

*Charani Ranasinghe*

- Potent HIV vaccines that use the poxvirus vector system to elicit strong mucosal T-cell responses, and anamnestic antibody responses that will protect against HIV transmission.

# DIVERSIFYING EPIDEMICS/ PRIORITY POPULATIONS

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**NOTE:** The ASHM AGM unanimously endorsed a resolution to provide subsidised antiretroviral treatment to individuals resident in Australia and New Zealand, irrespective of visa status.

## An Overview

- HIV policies and programs in Australia must adapt to the evolving epidemiology of the infection in people born overseas, and include culturally appropriate prevention, diagnosis and treatment services for both GBM and heterosexuals.
- Harm reduction strategies to minimise HIV transmission among people who inject drugs have been highly successful and must be sustained.
- Extremely low rates of maternal transmission have been achieved through comprehensive medical interventions.
- The incidence of HIV among women involved in sex work is among the lowest in the world, due to highly successful HIV prevention for this priority population.
- The trend in HIV notifications among Aboriginal and Torres Strait Islander peoples highlights the need to expand access to HIV pre-exposure prophylaxis to people who could benefit from this new technology, and strengthen prevention strategies for these populations.

## RELATED RESEARCH

### What do we need to better understand the needs of mobile and migrant populations in Australia? Is a national response achievable?

*Lisa Bastian, Program Manager, Western Australian Department of Health, WA, Australia*

- Men who have men sex with men (GBM)
  - Increased proportion of GBM diagnosed with HIV were born in Asia
  - Asian-born men made up 44% of new diagnoses in 2014 compared to 21% in 2005
- Heterosexual people
  - 39% of heterosexual transmission were in people from high-prevalence countries or partners were from high prevalence countries
- Pregnant women
  - Decreased mother-to-child transmission BUT increased number of deliveries in women with HIV infection
- Late and advanced HIV diagnoses
  - Proportion with late diagnosis was highest in those born in South East Asia (42%) and sub-Saharan Africa (38%)
- Implications for the 8th Australian HIV Strategy 2018-21
  - Continued inclusion of migrant and mobile populations as a priority
  - Consider options for enhanced HIV surveillance and monitoring
  - Translation of emerging evidence into recommended priority actions
  - Greater recognition of stigma, discrimination and structural barriers, including systemic racism.
- Read [HIV and Mobility in Australia Report Card: snapshot of progress and activity](#)

### Recent Trends in New Heterosexual Diagnoses of HIV in NSW Residents

*Meredith Wickens, Health Protection NSW*

- In NSW, heterosexual people are diagnosed with HIV later in life and later in their disease than GBM;

### **HIV in People Born Overseas, Australia**

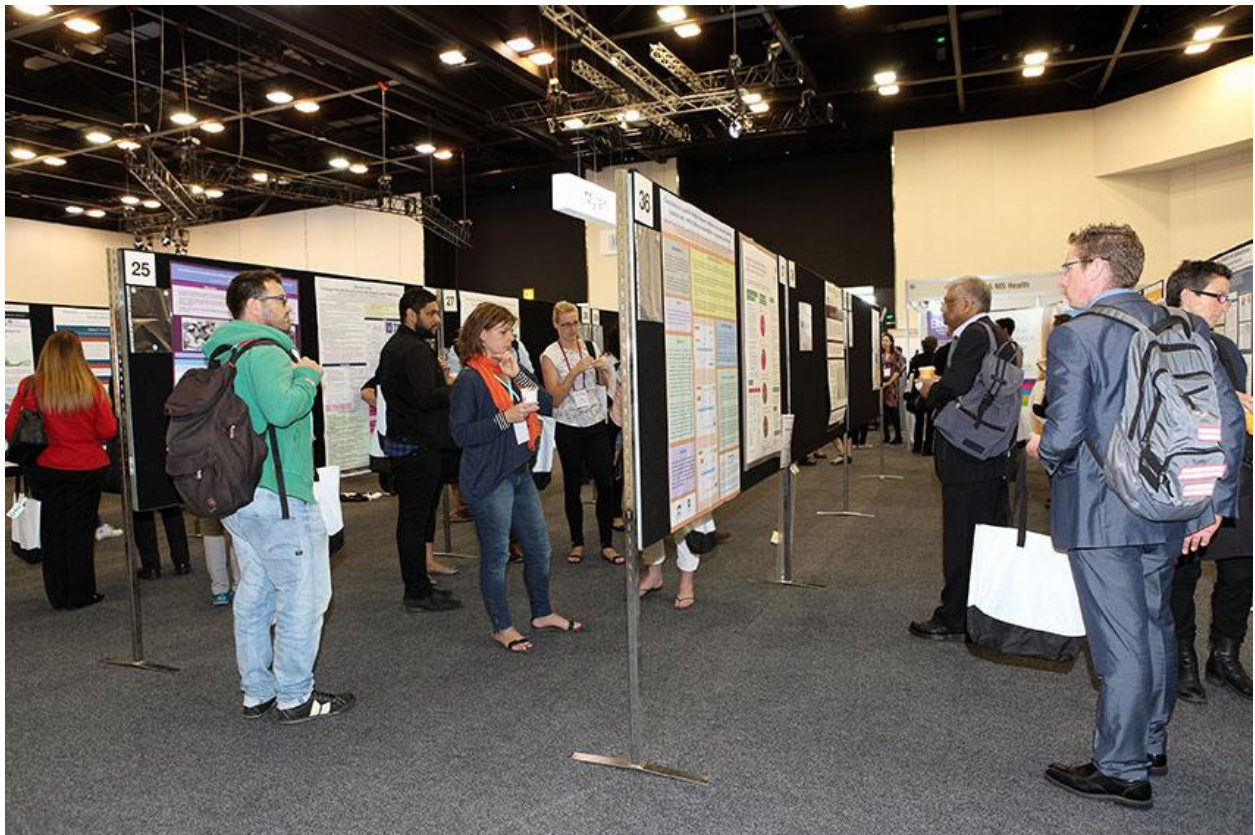
***Praveena Gunaratnam, The Kirby Institute***

- This study describes recent HIV epidemiological trends in people born overseas, to inform the development and delivery of targeted and culturally appropriate HIV programs. [View the presentation slides.](#)

### **Prevention of Mother-To-Child Transmission of HIV in Australia: An Analysis of 30 Years of National Surveillance Data**

***Skye McGregor, The Kirby Institute, UNSW Australia***

- 1986-2015 714 infants born in Australia to HIV+ mothers.
- 37% of were born in Sub-Saharan Africa or South-East Asia, increasing from 11% in 1986-1990 to 46% in 2011-2015 ( $p < 0.001$ )
- In the last 5-year period, there were 3 transmissions reported (all in 2012)
- Zero transmissions in the last three years, 2013-2015
- Australia has successfully expanded services to provide significantly more HIV+ women with interventions to avoid HIV transmission during pregnancy.



# POLITICS, POLICY, CULTURE

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## HIV CONFERENCE SLAMS SPITTING LAWS

Australia's leading HIV experts have condemned the governments of South Australia, Western Australia and the Northern Territory over laws that force people accused of spitting at police officers to undergo mandatory HIV and blood-borne virus testing.

*Delegates to the Australasian HIV Conference unanimously adopted a resolution condemning HIV spitting laws in Australia.*

### TAKE HOME MESSAGES

**Bridget Haire, AFAO President and post-doctoral research fellow, the Kirby Institute**

1. Australian health care is becoming less equitable, as the state and territory jurisdictions assume responsibility for what was formerly commonwealth territory.
2. The increase in Aboriginal HIV notifications is alarming and requires a coordinated national approach.
3. Biomedical prevention is changing the way that gay men think about HIV status.
4. Providing clear pathways for ARV access for PLHIV residing in Australia without Medicare access remains critical.
5. Australian jurisdictions must cease enacting legislation that implies HIV can be acquired through spitting.

### Changing concepts of risk, identity and serostatus - Key Messages

- Identity categories based on serostatus are changing with biomedical prevention: 'on PrEP' and 'Undetectable' are viewed as more meaningful than 'HIV negative' for negotiating safe sex.
- 'Safe sex' has changed conceptually for some, but not for all sexually active gay men.
- 'Combination prevention' is not a clearly defined or understood practice.

### Changes in GBM Condom Use with Casual Partners-NZ

**Peter Saxton, University of Auckland**

- Most surveyed with diagnosed HIV did not appear to have dramatically changed their overall rate of UAIC. However, the proportion engaging in UAIC is substantially higher than that reported among HIV negative GBM. *View the [presentation slides](#).*

### Characteristics of Gay and Bisexual Men Who Use Little To No HIV Risk Reduction Strategies during Condomless Anal Intercourse **Johann Kolstee, ACON**

- Few men used no form of risk reduction.
- Most HIV+ men practised HIV risk reduction.
- Younger, HIV-negative GBM who used methamphetamine were less likely to use HIV risk reduction strategies, although they may engage in serosorting with casual partners. Given their consistently high risk behaviour, HIV prevention efforts may need to prioritise these men.
- *View the [presentation slides](#).*

### Practising Biomedical Prevention Among Gay Men in Serodiscordant Relationships

**Steven Philpot, Kirby Institute**

- Serodiscordant couples were generally well informed about biomedical HIV-prevention. However, they expressed diverse motivations behind utilising these prevention technologies. The HIV sector must continue to engage serodiscordant couples to ensure they are protected from HIV in ways that suit the couple. *View the [presentation slides](#).*

# ANAL CANCER

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ASHM has commissioned a subcommittee to look at the role of screening for anal cancers in GBM with HIV. [Find out more.](#)

## TAKE HOME MESSAGES from Associate Professor David Templeton

1. Anal cancer is the most common non-AIDS-defining cancer among HIV-positive gay and bisexual men (GBM).
2. Rates of anal cancer have increased by over 50% in Australia over the last 3 decades.
3. HPV16, the most common cause of anal cancer, is common, persistent and strongly related to the presence and persistence of anal precancerous lesions.
4. Most GBM in the community have never had a conversation with their doctor about anal cancer and many believe they are at the same or even lower risk of anal cancer than the general population.
5. Living through the diagnosis and treatment of anal cancer which presents at a late stage involves painful, extensive surgery and combination chemo-radiation therapy, often resulting in long-term complications. This underscores the importance of regular screening with DARE to pick up cancers at an early stage when treatment is associated with far less mortality and morbidity.
6. Thus, all HIV-positive GBM should have annual digito-rectal examinations (DAREs) for early detection of anal cancer. A DARE should also be performed whenever a GBM presents with anal symptoms.

## RELATED RESEARCH

### Epidemiology of Anal HPV and Anal Cancer

***Amber D'Souza, Associate Professor, Johns Hopkins Bloomberg School of Public Health, USA***

- Incidence of HPV related anal cancer increased by 78% in last 30 yrs in men (US)
- Compared with the US general population, HIV-negative GBM have a 20-30-fold higher risk of anal cancer, while HIV+ GBM have 100 fold higher risk
- Anal pap results in GBM: Abnormal cytology has high sensitivity (~96%) but low specificity (~17%) for biopsy-proven anal precancerous lesions (= "High-grade squamous intra-epithelial lesions" "HSIL"). The addition of HPV16 testing to cytology substantially increases the specificity.

### What should we be doing for our patients now?

***Jason Ong, Monash University, The Alfred - Melbourne Sexual Health Centre, VIC, Australia***

- Important differences between anal HSIL screening and cervical cancer screening. Not proven that treating HSIL has led to a decrease in mortality/morbidity. RCTs needed.
- Instead, recommend DARE - Annual digital anorectal examination:
  - simple, safe, cost effective

- 50% anal cancers are externally visible at time of diagnosis and the average tumour size is 2.9cm
- Cancers of 2cm or more usually need chemotherapy. We need to identify tumours before they grow to this size
- Mortality is very rare if cancers are diagnosed at sizes of 1cm or less.
- Fewer than 10% of HIV+GBM currently have annual DAREs
- 86% of HIV physicians think it's important to screen for anal cancer in GBM living with HIV
- but NONE were screening in a systematic way.
- we're failing our patients by not detecting anal cancers at an earlier stage
- **Conclusion:** All HIV+ GBM aged ≥ 50 yrs should be screened for anal cancer annually using DARE

### **An update of the Study for the Prevention of Anal Cancer (SPANC)**

David Templeton, RPA Sexual Health

- HSIL –is common occurring in 30-50% of HIV positive GBM
- Interim SPANC results show great promise in better understanding the natural history of anal HSIL and identifying a minimally invasive screening program for persistent HSIL
- HSIL persistence strongly related to persistent HPV16 positivity
- **Conclusion:** 2 X HPV tests, at least 6 months APART, may identify men with chronic high-risk (i.e. potentially cancer-causing) HPV infection who are at risk of developing anal cancer.

### **A community perspective on anal cancer and anal HPV**

Lance Feeney, Positive Life NSW, Australia

- ≈ 50% of HIV+ GBM think their risk of anal cancer is same or lower than general population.
- ≈ 70% of HIV- GBM think their risk is same or lower than the general population.
- 84% of all respondents and 64% of all HIV+ respondents had not had a discussion with their doctor about anal HPV and anal cancer
- For those who have had a conversation with their doctor: > ½ cases it was initiated by the patient. Only initiated by Dr in about 1/3 of cases
- ≈1/3 of respondents are uncomfortable/v uncomfortable discussing anal cancer w/ their Dr
- 3/4 respondents have never had an anal examination for anal cancer and of the 15% who had, most had a DARE
- ≈ 70% of all respondents had not been tested for HPV
- More than half of respondents were not aware of the HPV vaccine, nearly 90% had not had a conversation with their doctor about it.

### **Educating the community about HPV and anal cancer**

Ben Wilcock, AFAO

- A review of the AFAO campaign The Bottom Line. Visit the website for consumer information on gay men, anal cancer and HPV. Includes links to support and services.

### **Living through the diagnosis and treatment of anal cancer**

**Brad Atkins**

- Brad Atkins shared his personal journey as an HIV+ GBM with anal cancer. Brad highlighted the personal challenges, morbidity, pain and psychological effects of the unpleasant treatment and life afterwards.

# INTERNATIONAL

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## TAKE HOME MESSAGES from Scott McGill, Deputy CEO, ASHM

1. The religious and socio-cultural context of the HIV response needs to be adequately understood for effective HIV programming.
2. The funding landscape is changing. Governments are expected to assume greater responsibilities. This transition period needs to be support with adequate funding and capacity building.
3. Civil society organisations and key populations play a vital role in the HIV response.
4. Knowledge of HIV diagnosis and care continuum among key populations is critical for prevention and treatment programs and community based models for HIV testing, care and management should be considered.
5. A multifaceted approach is required to address sexual and reproductive health needs and promote well-being.

## RESPONDING TO A CHANGING EPIDEMIC

### Regional Responses to HIV – the importance of strengthening civil society

*Darryl O'Donnell, Australian Federation of AIDS Organisations, Australia*

- International, regional and domestic financing is in transition.
- Disciplined approaches to investment and resource allocation matter.
- AFAO's SHIFT program will contribute to regional dialogue and capacity.
- Australia has not had drivers for investment planning.
- Understanding investment can help safeguard gains and respond to emerging challenges.

### Transitioning from donor-driven to nationally led responses in HIV: is it happening?

*John Kaldor, Professor & Program Head, The Kirby Institute*

Transitioning from donor-driven to nationally led responses in HIV requires consideration of existing governance structure, health systems and models of partnerships. When the country is ready for transitioning it will have strong leadership, adequate training and supplies, and supportive policy environment.

## SEXUAL AND REPRODUCTIVE HEALTH

- NGOs and grass root organisations play a significant and important role in delivering sexual and reproductive health interventions.
- A multifaceted approach is required to address sexual and reproductive health needs and promote well-being.

### Tikobulabula': Conceptualization of Adolescent Sexual and Reproductive Well-Being in Fiji

*Michelle O'Connor, UNSW*

The research explored how adolescents and stakeholders in Fiji define adolescent sexual and reproductive wellbeing (ASRW). ASRW is viewed as multifaceted. ASRW is defined as: positive feelings and thoughts, bodily health, having capabilities, positive social relationships and having structural and

material needs met. This framework of ASRW which can be used to guide policy and practices. [View the presentation slides.](#)

### **The National Response to Family and Sexual Violence in Papua New Guinea**

***Isi Oru, PNG National Family & Sexual Violence Action Committee***

2/3 women have experienced physical or sexual violence in PNG (department of health data). The Family Sexual Action Violence Committee is committed to responding to this by undertaking a 4 pronged approach 1) legal reform 2) service delivery 3) advocacy and communication 4) research and knowledge management.

## CASE STUDIES

### **Past. Present. Future: Responding to HIV in Papua New Guinea**

***Keynote Speaker: Dr Angela Kelly-Hanku, Sexual and Reproductive Health Unit, PNG Institute of Medical Research***

- Need to consider religious, socio-cultural context when delivering HIV treatment, care and support services.
- Churches play a critical role in the delivery of healthcare in PNG, providing more than 1/3 of all antiretroviral treatment in the country.
- To understand HIV in PNG you have to understand how religiosity influences people's lives.
- Data shows need to look at STIS along with HIV.

### **Stigma and discrimination in Timor Leste**

***Keynote Speaker: Ines Lopes, Executive Director, Estrela+***

HIV and AIDS are socially and medically stigmatised in Timor Leste. Fear of stigma and discrimination prevent people from accessing HIV testing, care and support services. Education of the community and health care services providers would improve the HIV response and programs for PLWHA.

### **Amphetamine-Type-Stimulant Use and HIV Infection: Findings from a Bio-Behavioural Survey of GBM in Hanoi, Vietnam**

**Nga Vu, CSHR, UNSW**

Homosexuality and drug use behaviours remain socially stigmatised in Vietnam. High rate of undiagnosed HIV infection among drug users. It is important to integrate methamphetamine interventions into current HIV programs. View the [presentation slides](#).

### **Knowledge of HIV Status, Enrolment in Care, and CD4 Count among HIV+ PWID in Vietnam**

**Duong Cong Thanh, National Institute of Hygiene and Epidemiology**

Knowledge of HIV diagnosis and care continuum among key populations is critical for prevention and treatment programs. New models for HIV testing should consider mobile, community-based, home-based and self-testing. View the [presentation slides](#).

### **Challenges to Resourcing Peer-Led Responses for Sex Workers** Jules Kim

Sex workers should be the centre of design, development + implementation of sex worker HIV programs.

### **Acceptability of PrEP among GBM + Transgender in Myanmar**

**Bridget Draper, Burnet Institute**.

PrEP would be an acceptable HIV prevention option for GMT in Myanmar with high potential prevention effectiveness so long as it is free. View the [presentation slides](#).

### **High HIV Positivity among Other Vulnerable Populations Reached Through Decentralized HIV Testing and Counselling in Myanmar**

**Sai San Moon Lu, Save the Children International**

Outreach and community services are essential for reaching key populations with HIV testing and treatment services. View the [presentation slides](#).

## COMMUNITY

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### **TAKE HOME MESSAGES from Darryl O'Donnel, CEO, AFAO**

1. Recent-year progress in responding to supply-side blockages has been astonishing. We have demonstrated - through PrEP in particular - that we have the capacity to create large-scale change when we commit to doing so together.
2. Supply-side barriers remain considerable, including on PrEP-at-scale (that is, via the PBS), access to treatment, community-based testing and investment.
3. Investment in community and the response more broadly, is waning. Investment is the pre-condition for the effectiveness of efforts, and analysis and mobilisation on disinvestment is needed.
4. On the demand-side, community is a ready and willing partner. The extraordinarily rapid enrolment in PrEP trials, and the enduring response of communities to HIV, provide ample evidence of that.
5. Our shared commitment to 'leave no one behind' will demand great effort. As we make gains towards 2020, the response to HIV will become harder, not easier.

- **James Ward - Opening Plenary** - because our accountability for responding to HIV spans all communities. We all have a role to play in responding to the emerging HIV situation in Aboriginal and Torres Strait Islander communities, and must do so through and with Aboriginal and Torres Strait Islander communities.
- **Jared Baeten - Opening and Closing Plenary** - 'PrEP at age six' point us to the capacity to create transformative change on the basis of evidence (and, in this case, technology) when there is a shared commitment to do so.
- **Lisa Fitzgerald, School of Public Health, University of Queensland** - "I had to be someone new, to start afresh": residential mobility of people living with HIV to regional Queensland - for the journey beneath the data to thick description of the lived experience of HIV. View her [presentation](#) slides.
- **Matthew Weait** - NAPWHA Symposium at the AFAO Community and Advocacy Hub and closing ceremony - because HIV criminalisation, and the poor state of the enabling legal environment for HIV, tie the hands of community behind our backs, while asking nothing less of us in the expectations placed upon us.
- **The 'People of Trans and Gender Diverse Experience' session** at the AFAO Community and Advocacy Hub - for the strength of issues and mobilisation of effort to better respond to trans and gender diverse experience. Extraordinary progress since the 2015 Conference, and much more to be done.

# REACHING AUDIENCES

## IN THE NEWS



Research presented at the 2016 Australasian HIV Conference made national headlines, with a particular focus on the rise in new HIV infections in Aboriginal and Torres Strait Islander populations.

The media coverage from both the HIV and Sexual Health conferences has received **782 shares via social media** so far, with close to **one million** estimated coverage views.

Opinion pieces are still to be published in MJA Insight, Croakey and the Conversation.

[Access and share the full media coverage report](#), including direct links to articles and metrics relating to reach. Highlights include:

- ABC News TV: James Ward, Indigenous HIV
- Channel 7 Adelaide: Hep C: Lisa shares her personal story of being cured of Hep C
- Croakey, MJA, Star Observer: HIV Conference slams spitting laws



## SOCIAL MEDIA

Twitter continued to be the main social media tool for the conference, providing a way for research institutes, community organisations and campaigners to share important research and key messages to a far wider online audience. #ASHM16 broke all records reaching over **3 million impressions**. The number of @ASHMmedia grew **by 7%** (over 65 new followers in a week) and continues to rise.

### The Numbers

3,116,545

Impressions

2,037

Tweets

288

Participants

8

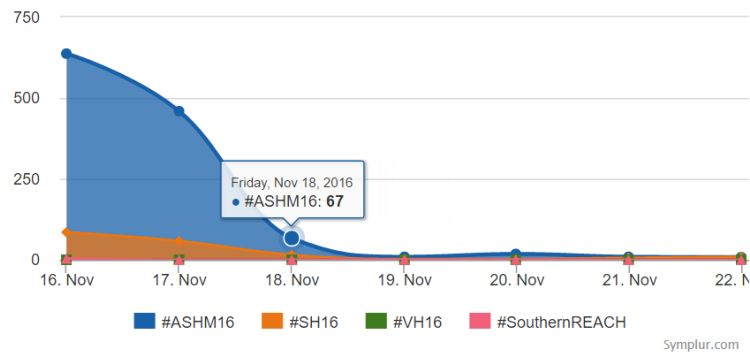
Avg Tweets/Hour

7

Avg Tweets/Participant



### #ASHM16 and Related Hashtags



### #ASHM16 Participants



### The influencers of #ASHM16

#### Top 10 by Mentions

- @paulkidd 133
- @ashmmedia 97
- @burnetinstitute 94
- @kirbyinstitute 87
- @neil\_fraser 83
- @afao 82
- @csr\_h\_unsw 82
- @carlatreloar 80
- @drgrahambrown 69
- @martinxholt 66



#### Top 10 by Tweets

- @positivelifensw 121
- @paulkidd 56
- @aikidr 51
- @neil\_fraser 49
- @ltu\_sex\_health 48
- @zahrastardust 40
- @drgrahambrown 39
- @joelamurray 37
- @csr\_h\_unsw 35
- @lucanboy1 31



### Latest Tweets

- @janineewen 19 minutes  
RT @ProfWetpaint: Proud to have been part of this - dreadful, discriminatory, unjustifiable #HIV #criminalization <https://t.co/A2rhcCHDjo> K...
- @rzosel 3 hours  
RT @ASHMmedia: Congrats to the winner of #SH16 best poster award: @Your\_Fertility from the Australasian Sexual Health Alliance...
- @willaonthego 3 hours  
RT @ASHMmedia: Congrats to the winner of #SH16 best poster award: @Your\_Fertility from the Australasian Sexual Health Alliance...
- @ashmmedia 3 hours  
Congrats to the winner of #SH16 best poster award: @Your\_Fertility from the Australasian Sexual Health Alliance #ASHA <https://t.co/qaxQChL4Tn>
- @drsciencelover 3 hours  
RT @rzosel: Congrats @Your\_Fertility, winner of best poster award at 2016 Australasian Sexual Health conference #SH16 #ASHM16...
- @your\_fertility 3 hours  
RT @rzosel: Congrats @Your\_Fertility, winner of best poster award at 2016 Australasian Sexual Health conference #SH16 #ASHM16...
- @vartavic 3 hours  
RT @rzosel: Congrats @Your\_Fertility, winner of best poster award at 2016...

# FROM ASHM

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## ASHM REPORT BACK

The [ASHM Report Back](#) microsite provides an online platform for recipients of [ASHM scholarships](#) and other clinical authors to report back key research presented from various international medical and scientific conferences on HIV&AIDS, viral hepatitis, and sexual health. These include: the [Australasian Sexual Health and HIV&AIDS conference](#), [HIV Glasgow 2016](#), and [CROI](#) (Conference on Retroviruses and Opportunistic Infections).

Subscribe online to access a wide range of clinical blogs, including a sample from the [2016 Australasian Sexual Health and HIV&AIDS conference](#) below:

- [Divergence in HIV rates within Aboriginal and Torres Strait Islander communities in Australia](#) posted by [Nicolette Roux](#) (Advanced Specialist Trainee in Aboriginal and Torres Strait Islander Health)
- [What's new in the 2016 National PEP Guidelines](#) posted by [Judy Armishaw](#) (Clinical Nurse Consultant)
- [Fuckbuddies, boyfriends and other partners – Results from the monopoly study](#) posted by [Vincent Cornelisse](#) (Sexual Health Registrar and GP)
- [Poster Review: Primary Health Care Nurses – STI Testing](#) posted by [Kathryn Bell](#) (Registered Nurse)
- [Effects of Lay Health Workers and of decentralising testing](#) posted by [Kathryn Bell](#) (Registered Nurse)
- [Dr Kedar Narayan presents on 3D Microscopy](#) posted by [Dinusha Chandratilleke](#) (Advanced Trainee in Clinical Immunology and Immunopathology)
- [Elimination of Hepatitis C and HIV coinfection in Australia](#) posted by [Stuart Aitken](#) (Sexual Health physician)
- [Stigma and discrimination in Timor Leste](#) posted by [Natasha Lovatt](#) (Sexual Health Registrar)
- [What PrEP means for safe sex in Sydney: evolving norms – Bridget Haire](#) posted by [Natasha Lovatt](#) (Sexual Health Registrar)
- [Are Our Aboriginal Communities On The Edge Of An Epidemic?](#) posted by [George Forgan Smith](#) (GP)
- [Position Statement Released On HIV Risk & Transmission](#) posted by [George Forgan Smith](#) (GP)
- ['I speak more truth than the Pope' – Prof. Gracelyn Smallwood](#) posted by [Elizabeth Crock](#) (Clinical Nurse Consultant & HIV Team Coordinator)

[Access the microsite](#)

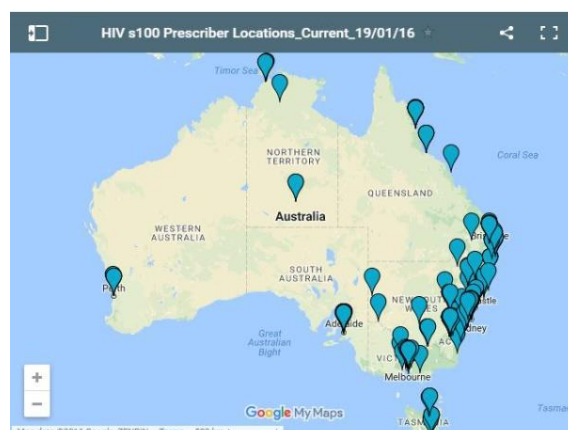


## ASHM HIV TRAINING & RESOURCES

### HIV Prescriber Program

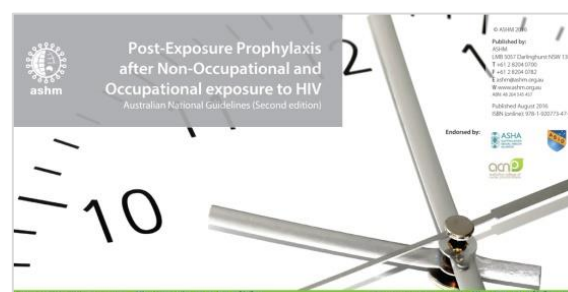
The HIV Prescriber Program for community s100 prescribers is a cornerstone of ASHM's educational programs where HIV clinical treatment and management is covered. Increasing numbers of trained prescribers Australia-wide, and sustaining their ongoing continuing professional development, is one of ASHM's main imperatives for this program. Approximately 300 accredited HIV s100 prescribers in Australia are listed via ASHM's [website](#).

Find out more about the [prescriber program](#).



### PEP Guidelines

The **Second edition of the Post-Exposure Prophylaxis after Non-Occupational and Occupational Exposure to HIV: Australian National Guidelines** outline the management of individuals who have been exposed (or suspect they have been exposed) to HIV in non-occupational and occupational settings. Visit the [website](#).



### HIV Management in Australasia: a guide for clinical care

HIV Management in Australasia: a guide for clinical care is an invaluable website reference and an essential teaching tool in training programs for participants and educators. It is the key text used in ASHM's accreditation course for HIV s100 prescribers and in the continuing medication education scheme for community medical practitioners to maintain HIV s100 prescriber rights. Access the [website](#).



# 2017 AUSTRALASIAN HIV CONFERENCE

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## **2017 Australasian HIV & AIDS Conference**

6-8 November 2017

Canberra, Australia

[www.hivaidsconference.com.au](http://www.hivaidsconference.com.au)



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