Wednesday 23 July | Poster Exhibition

Venue: Exhibition, Ground Level
Presentation: Wednesday 23 July, 12:30-14:30
The Poster Exhibition is open from Mon 21 - Thu 24 July from 10:00 to 18:30.

Each poster is displayed for one day. Authors will stand by their posters between 12:30 and 14:30 to answer questions and provide further information on their study results.

Track A > Basic and Translational Research

PE01-008 Mechanics of activation / inflammation and impact on pathogenesis

WEPE001 BIT225 therapy reduces HIV-1 burden in monocyte cells and decreases immune activation
Australia

WEPE002 The pathogenic role of tissue factor in HIV and progressive SIV infection
B.B. Andrade, M. Schechter, I. Francischetti, T. He, C. Apetrei, I. Pandrea, I. Sereth
United States

WEPE003 Interleukin-21 improves reconstitution of intestinal Th17 and Th22 cells and reduces residual inflammation in ART-suppressed SIV-infected rhesus macaques
L. Micci, E. Ryan, C. McGary, S. Paganini, G. Silvestri, F. Villinger, J. Lifson, J. Brenchley, M. Paiardini
United States

WEPE004 Cellular and soluble immune activation markers are associated with HIV-1 infection in rural Uganda
Uganda

WEPE005 Social stress prior to SIV or SHIV infection associates with higher viral load and lower CD4 counts
G. Neigh, T. Hayes, R. Trible, T. Vanderford, D. Carnathan, C. Harrell, K. Easley, B. Cervasi, M. Paiardini, G. Silvestri
United States

WEPE006 Peripheral blood mononuclear cell oxidative phosphorylation complex I activity levels are decreased by HIV and correlate with extent of immune dysregulation and activation
United States

WEPE007 TLR2 stimulation promotes HIV-1 infection of CD4+ T cells by increasing the susceptibility of CCR6+ T cells to infection
J.F. Bolduc, M. Ouellet, M.J. Tremblay
Canada

WEPE008 Increased immune activation and hypercoagulation after gut permeabilization in SIV-infected African green monkeys
United States

PE009 Mechanisms of T cell depletion and reconstitution

PE010-012 Pathogenesis in gut, lymphoid tissues and bone marrow

WEPE010 Germinal center T follicular helper cells (GC TFH) from naive hosts are highly permissive to HIV-1 ex vivo and downregulate CCR5 and PD-1 during productive infection
S. Kohler, M. Pham, J. Folkvord, D.N. Levy, E. Connick
United States

WEPE011 SIV-infected precursors of CD4+ T follicular helper cells (TFH) from macaque spleen survive and up-regulate PD-1 following TCR stimulation
Y. Xu, M. Bailey, S. Alcantara, K. Suzuki, R. De Rose, D. Cooper, S. Kent, A. Kelleher, J. Zauders
Australia

WEPE012 Impaired recovery of gut-associated lymphoid tissue (GALT) in small intestine compared to large intestine after combination antiretroviral therapy (cART) initiation in treatment naive HIV-infected patients
United States

PE013 Gut and microbial translocation and chronic inflammation

WEPE013 Raltegravir (RAL) therapy is associated with reduced microbial translocation (MT) and monocyte activation in HIV infected subjects naive to antiretroviral therapy (ART)
United States

PE014-015 Correlates and biomarkers of progression of HIV infection

WEPE014 Impact of HIV-1 env quasispecies variations on antiretroviral therapy and fitness
Y. Ouyang, Z. Li, H. Xing, Y. Jiao, L. Liao, Q. Yin, Y. Wang, H. Wang, Y. Shao, J. Ma
China

WEPE015 Associations between biomarkers of inflammation and mortality among CART initiators in the Multicenter AIDS Cohort Study
N. Wada, J. Bream, O. Martinez-Maza, B. Macatangay, S. Galvin, L. Jacobson
United States

PE016-019 HIV replication and pathogenesis in other organs and tissues

WEPE016 Envelope glycoprotein determinants of macrophage tropism during progressive HIV-1 subtype C infection
Australia

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**WEPE017**

Inhibition of COMT by tolcapone ameliorates reductions in MAP2 gene expression in SY5Y neuronal cells exposed to HIV


Australia

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**WEPE026**

HIV testing (including new algorithms, rapid testing and strategies)

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**WEPE028**

Development of whole blood EQAS for HIV point of care testing

S.-J. Brannif, G. Vincini, K. Wilson, S. Best

Australia

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**WEPE018**

Preliminary assessment of the neurocognitive effects of vorinostat administration in HIV eradication

K. Robertson, J. Kuruc, C. Gay, N. Archin, J. Eron, D. Margolis

United States

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**WEPE027**

Comparison of HIV testing uptake in the emergency department using different testing assays and support systems

S. Galvão, A. Nyaku

United States

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**WEPE019**

Impact of HIV-1 gp120 on mitochondrial bioenergetics and neuronal function

J. Shrestha, B. Sawaya

United States

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**WEPE020**

Viral determinants of pathogenesis

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**WEPE022**

Microbiomes (including viromes)

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**WEPE021**

Ageing and HIV

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**WEPE023**

Novel approaches to viral load monitoring

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**WEPE024**

Novel assays for assessment of ARV resistance

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**WEPE025**

Next generation sequencing for evaluation of T20 Use in Brazilian patients failing HAART

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**WEPE026**

Evaluation of the 4th generation immunoassay LIAISON XL Murex HIV Ab/Ag; contribution of the discrimination of HIV-p24 signal from HIV-antibody to the diagnosis of acute HIV infection in HIV-screening testing


Italy

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**WEPE028**

Development of whole blood EQAS for HIV point of care testing

S.-J. Brannif, G. Vincini, K. Wilson, S. Best

Australia

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**WEPE030**

Oral rapid HIV testing in Australia: a new era

D. Chan, M. Smith, A. Price, M.J. Stewart, R. Finlayson, J. Lusk, P. Read

Australia

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**WEPE031**

Evaluation of the performance of two rapid HIV1/2 test kits in high and low prevalence populations in Nigeria


United States

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**WEPE032**

How can we improve HIV testing to diagnose the undiagnosed?

C. Ward, J. Leighton, D. Lebari, V. Lee

United Kingdom

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**WEPE033**

Developing a scoring algorithm to stratify individuals at risk for acute HIV infection: analysis of RV 217 data a multi-site research study

A. Letizia, J. Kim, M. Robb, L.A. Eller, S. Nityayaphan, F. Sawe, A. Sekiziyivu, L. Maganga, RV-217 Study Group

United States

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**WEPE034**

Can laypersons in high-prevalence South Africa perform an HIV self-test accurately?

M. Dong, R. Regina, S. Hlongwane, M. Ghebramichael, D. Wilson, R. Dong

United States

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**WEPE035**

Community-based rapid HIV testing tailored to needs of people who use drugs intravenously reaches out to individuals with high CD4 cell counts: secondary analysis of data from Vyborg, Russia, 2013

D.A. Binkumhametov, P.V. Girchenko, A.A. Solovyeva, A. Zakowicz, Z. Shabarova

Netherlands

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**PE036**

Viral tropism testing

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**PE038-040**

CD4 measurement (including point of care diagnostics)

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**PE038-039**

Evaluation of the low-cost, touchscreen based Muse® AutoCD4/CD4% system for CD4 count and CD4% determination


United States
**WEPE039**

**Routine CD4 monitoring in HIV patients with viral suppression: is it really necessary?** 
A Portuguese cohort


Portugal

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**WEPE040**

**High frequency of invalid CD4 test results using the Alere Pima CD4 analyzer in field projects in nine countries**

E. Fajardo, C. Metcalfe, E. Piirou, M. Gueguen, D. Maman, P. Chaillet, V. Cox, T. Roberts, C. Kosack

Switzerland

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**PE041-049**

**Viral load measurement (including point of care diagnostics)**

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**WEPE041**

**Strategy to identify individuals with virologic failure before nucleic acid testing to increase the relative efficiency in resource-limited settings**

R. Mendizabal-Burastero, A. Giron-Callejas, E. Yax, A. Martinez-Castellanos, C. Mejia-Villatoro

Guatemala

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**WEPE042**

**Implementing virologic monitoring using dried blood spots at district hospitals in Malawi: challenges and opportunities**

S.E. Rutstein, D. Kamwendo, M. Hosseinipour, A. Soko, A. Sarr, S. Gupta, R. Mataya

United States

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**WEPE043**

**Virological outcome at week 48 of three recommended first-line regimens using ultra-sensitive viral load and drug concentrations level**

C. Charpentier, M. Choquet, V. Joly, P. Yeni, B. Viseaux, M. Caséris, F. Brun-Vézinet, Y. Yazdanpanah, G. Peytavin, D. Descamps, R. Landman

France

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**WEPE044**

**A simple method to elute cell-free HIV from dried blood spots improves the ascertainment of virologic suppression**

X. Wu, P. Baum, M. Crask, T. Do, C. Honisch, S. Will

United States

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**WEPE045**

**HIV viral load monitoring frequency and risk of treatment failure among immunologically stable HIV-infected patients prescribed ART**

B. Young, R. Debes, K. Buchacz, M. Scott, F. Palella, J. Brooks, HIV Outpatient Study (HOPS) Investigators

United States

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**WEPE046**

**The cost-effectiveness of ART monitoring strategies in African settings: software tool**


Switzerland

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**WEPE047**

**Determinants of residual viremia during combination HIV treatment: impacts of baseline HIV RNA levels and treatment choice**

E. McKinnon, A. Castlely, L. Payne, S. Pummer, D. Nolan

Australia

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**WEPE048**

**Viral failure by plasma and DBS HIV-RNA viral load measures in the SECONDLINE and ENCORE1 studies**


Australia

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**WEPE049**

**Task-shifting of dried blood spot (DBS) sample collection for viral load testing in Thyolo, Malawi: the role of health surveillance assistants (HSAs)**


Malawi

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**PE050-053**

**Rapid point of care testing: co-morbidities (syphilis, TB, Cryptococcus, hepatitis C, other infections)**

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**WEPE050**

**Clinical evaluation of a dual rapid diagnostic test for HIV and syphilis in Lima Peru using SD BIOLINE HIV/Syphilis Duo, 2014**


United States

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**WEPE051**

**The utility of the Xpert MTB/RIF assay for diagnosis of mycobacterium tuberculosis from routine passive case finding in high prevalence of tuberculosis and AIDS: upper North of Thailand**

P. Kunavararak, C. Chuchottavorn, S. Kongsin, P. Pokaew, V. Sutachai, S. Arunothong, S. Rerkngam

Thailand

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**WEPE052**

**Cost effectiveness of Xpert MTB/RIF tool for routine passive case finding in upper north of Thailand**

P. Kunavararak, S. Kongsin, C. Chuchottavorn, P. Pokaew, V. Sutachai, S. Arunothong, S. Rerkngam

Thailand

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**WEPE053**

**Combination antiretroviral therapy reduces risk for detection of cervical HPV infection in women living with HIV**


South Africa

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**PE054-055**

**Immune reconstitution disorders / immune reconstitution inflammatory syndrome (IRIS)**

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**WEPE054**

**Early immunologic responses distinguish early mortality and immune reconstitution inflammatory syndrome in advanced HIV/tuberculosis co-infected adults initiating antiretroviral therapy**


United States

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**WEPE055**

**Predictor of paradoxical and unmasking TB-IRIS in HIV-positive patients initiating antiretroviral therapy**


Indonesia

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**PE056**

**Other adverse reactions and complications of ART**

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**WEPE056**

**Appraisal of efavirenz use in patients with nevirapine induced Steven Johnson syndrome**

T.C. Manzini, M.Y.S. Moosa

South Africa

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**PE057-059**

**Strategies promoting long term health: screening for non-communicable comorbidity**

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Clinical trials: phase III

Elvitegravir/cobicistat/emtricitabine/tenofovir DF in HIV patients with renal impairment


Efficacy and safety of dolutegravir relative to commonly-used 3rd-agents at 96-weeks in treatment-naïve HIV-1-infected patients: a systematic review and network meta-analysis


Efficacy and safety of dolutegravir (DTG) in hepatitis (HBV or HCV) co-infected patients: results from the phase 3 program

S. Min, J. Roberts, S. Almond, L. Curtis, C. Stainsby, J. Lim, B. Wynne, G. Nichols

Week 144 renal safety of Elvitegravir/cobicistat/emtricitabine/tenofovir DF (STB) from two phase 3 randomized controlled trials


STaR study: single-tablet regimen rilpivirine/emtricitabine/tenofovir DF maintains non-inferiority to efavirenz/emtricitabine/tenofovir DF in ART-naive adults through W96 with a favorable safety profile for abnormal dreams and dizziness


Measuring patient satisfaction with HIV treatments: comparing dolutegravir with darunavir/r in the FLAMINGO study

M. Murray, B. Goodquin, D. Hagins, S. Gallien, C. Brennann, S. Min

Clinical trials: post-licensing

Lifestyle and health status of HIV infected patients in five Brazilian sites

O.H. Munhoz Leite, S. De Sousa dos Santos, Y.L. Ho, A.C. Carvalho de Melo e Silva, J.V. Ramalho Madruga, B.G. Jegehorn Grinsztejn, S.B. May, Grupo de Estudo de Alterações Anatômicas e Metabólicas em Pacientes Portadores de HIV/Aids

Prevalence of nocturnal oxygen desaturation in subjects with HIV-infection


Prevalence of hypertension in patients receiving antiretroviral therapy in Northern Malawi

C. Pfaff, C. Longwe, W. Simwanza, R. Hoffman

Clinical trials: post-licensing

DRIVESHAFT study: switching from twice-daily darunavir/ritonavir (DRV/r) to once-daily DRV/r in virologically-suppressed treatment-experienced HIV-infected patients maintains virologic suppression and improves antiretroviral adherence and LDL cholesterol

G. Huhn, A. Sigman, B. Livak

Cohort studies

Recent trends in response to combination antiretroviral therapy in the Australian HIV observational database

H. McManus, J. Hoy, J. Woolley, M.A. Boyd, M.D. Kelly, B. Muhall, N.J. Roth, K. Petoumenos, M.G. Law, the Australian HIV Observational Database

Evaluation of the effects of antiretroviral treatment and methadone maintenance treatment on HIV-infected injecting drug users

Y. Zhao, M. Zhang, K. Rou, Z. Wu

Outcomes for lopinavir/ritonavir (LPV/r) once (QD) and twice (BID) daily regimens in ART-naive HIV-positive patients - data from the star/stella cohorts


A decade of combination antiretroviral treatment in Asia: the TREAT Asia HIV observational database (TAHOD) cohort

N. Durier, on behalf of The TREAT Asia HIV Observational Database

Renal function decline and associated risk factors among patients treated with tenofovir-based first line anti-retroviral regimen in public sector in Myanmar


Comparing the incidence and identifying risk factors for nephrolithiasis among patients exposed to atazanavir, other PIs and PI-free regimens

E. Nkoma, M. Kumar, P. Hines, V. Moorthy, S. Patelia

Use of Maraviroc in clinical practice. A nationwide observational study


The Melbourne HIV cohort study: cohort description and baseline clinical and socio-behavioural characteristics

M. Giles, R. Moore, N. Roth, B. Tee, C. Fairley, A. Street, I. Woolley, D. Chibo, S. Crowe, P. Cameron, J. Watson, J. Elliott, Melbourne HIV Cohort Study Group

Survival of children on antiretroviral therapy in Swaziland

P.L. Shabangu, A. Beke, K. Sikwibe, H. Hurkhaidn

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<th>Incidence of first-line ART failure by clinical, immunological or virological definition and the time to change to second-line in the East African IeDEA Cohort</th>
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<td>U. Neogi, P. Nagaraja, N. Dixit, R. Palchaudhuri, A. De Costa, A. Shet</td>
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<td>Improved virological outcomes amongst adults starting efavirenz for first-line antiretroviral treatment in a multicentre cohort study in South Africa</td>
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<td>Dual therapy efficacy in key subgroups of treatment-naive patients in the GARDEL study</td>
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<td>Higher prevalence of low level HIV viremia under protease-inhibitor containing first-line therapy than under NNRTI-regimens</td>
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<td>Patient characteristics that predict switching to second-line anti-retroviral treatment among HIV-infected adults in Cambodia</td>
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<td>A new world market: stability of lopinavir/ritonavir (Kaletra®) past its recommended expiry date</td>
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<td>Very low prevalence of virological failure among HIV positive patients receiving first-line antiretroviral therapy for more than five years without routine viral load testing in TASO Uganda</td>
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<td>Simplification (with one- or two-agent regimens) and switch studies</td>
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<td>Lopinavir/r vs efavirenz/FTC/TDF for HIV maintenance therapy: results of the ANRS 140 DREAM trial</td>
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<td>PE089</td>
<td>HCV co-infection does not compromised darunavir monotherapy efficacy in HIV-infected patients, though induce higher immune activation profiles</td>
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<td>Dual antiretroviral therapy based on boosted protease Inhibitor (PI/r) in the real-life setting: HIV-DOC cohort</td>
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<td>Switching from NRTI + PI/r to Maraviroc + PI/r - MITOX Study Week 48 Analysis</td>
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<td>H. Walter, M. Obermeier, R. Ehret, T. Berg, N. Venhoff, D. Lebrecht, A. Baumgarten, MITOX Study Group</td>
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<td>Safety analysis of switching to STB from a RTV-boosted PI or NNRTI Plus TVD regimen</td>
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WEPE093  HIV-1 seminal shedding among patients undergoing protease inhibitor monotherapy vs. patients on triple therapy
Spain

PE094  Therapeutic vaccine trials
WEPE094  Baseline antibody levels to CS/gp1732-744: a potential prognostic marker for viral load outcome following immunization with the peptide-based therapeutic HIV vaccine, Vacc-4x
Norway

PE095  Immune-based therapy trials
WEPE095  A pilot study of the impact of rosuvastatin administration on residual chronic immune activation under antiretroviral therapy: the CESAR-IMEA trial
France

PE096-099  ARV management strategies: cohort studies
WEPE096  The 10-year effectiveness of highly active antiretroviral treatment in perinatally HIV-infected children participating in Thailand’s national access program
L. Aurphul, T. Puthanakit, T. Sudjaritruk, P. Oberdorfer, T. Cholecharoentanan, S. Taejaroenkul, N. Wongnum, V. Sirisanthana
Thailand

WEPE097  Virological outcomes after anti-retroviral therapy initiation among a cohort of children in Canada
F. Kakkar, V. Lamarre, M. Francois, V. Silvie, H. Soudneyns, N. Lapointe
Canada

WEPE098  Patterns of CD4 reconstitution in HIV-infected children after antiretroviral therapy initiation in the paediatric West African IeDEA cohort
France

WEPE099  Long-term outcomes among children receiving antiretroviral therapy enrolled in a community-based accompaniment program in rural Rwanda
F. Cyamatare Rwabukwisi, M. Ribakare, B. Hedd-Gauthier, C. Amoros, P. Niyigena, N. Gusta
United States

Track C > Epidemiology and Prevention Research

PE100-102  Capacity building for HIV prevention research
WEPE100  International traineeships in AIDS prevention studies (ITAPS): 25 years of capacity building in HIV prevention research
United States

WEPE101  Implementing a hybrid course for building HIV research capacity in Vietnam: challenges and successes
United States

WEPE102  Enhancing Lagos State’s response and sustainability of HIV prevention programmes for most-at-risk-populations (MARPs) through involvement of state and local stakeholders
O.A. Oderinde, O.S. Asaolu, A. Shittu, D. Lajide, I. Okekearu
Nigeria

PE103-104  HIV testing and diagnostic strategies
WEPE103  Addressing HIV testing and counselling and treatment gaps for key and vulnerable populations in the Asia-Pacific Region: a UNAIDS regional call to action
M. Lewis Sabin, V. Andreeva
UNAIDS

WEPE104  Social network HIV testing to locate the HIV positive unaware
M. Downing, B. Livak, J. Schneider, T. Vastylyeva, P. Smyrnov, G. Nikolopoulos, S. Friedman
United States

PE105  Methods for detecting recent HIV infections
WEPE105  Characterization of a rapid HIV-1 incidence assay based on a CDC-developed multi-subtype antigen in a commercial HIV lateral flow assay format
P.B. Smith, S.C. Piacentini, M.N. Jackson, R.W. Mink
United States

PE106-108  Estimation of the size of HIV-infected and key populations
WEPE106  Estimating the size of key populations most at risk of HIV infection: experiences and lessons from Asian countries
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C. Nöstlinger, T. Platteau, J. Buyze,
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F. Ssewamala, V. Ilc, A. Kivumbi, I. Sekitoleko Uganda

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J. Wenban, D. Fagan, M.J. Stewart Australia

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WEPE444 Piloting an electronic patient tracking system for PMTCT at facilities in Zimbabwe: reducing health care staff workload
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WEPE445 Migration of a departmental HIV database to provide an outpatient management platform for HIV patients and the chronic disease cohorts in Western Australia
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WEPE446 Re-linking HIV-positive patients to care: utilizing existing data systems
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WEPE448 Motivating the un-motivated: an investigation of factors affecting use and acceptance of OPENMRS computer system for monitoring HIV care quality indicators in rural settings
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WEPE449 The effect of weak monitoring and evaluation system on the elimination target for PMTCT in Nigeria
F.O. Abatta, E. Njide, A. Segilola, T. Oyelade, C. Meribe, D. Odoh, C. Anyaika
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C. Scaduto, E. Nawar, A. Uhelling, S. Bruno, S. Hailemariam, E. Woldemariam, S. Ismail
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WEPE454 Lessons learned from an analysis of data provided via innovative mobile technology, of the first 1000 vulnerable pregnant women in the IMPACT (improving parent and child outcomes) project in Malawi
D. Deakin, M. Santer
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WEPE455 Moving from universal PMTCT access to universal coverage in Lesotho - what are the gaps?
A. Isavva, A. Tiam, A. Thompson, A. Ahimbisibwe, G. Kebede, M. Morris, M. Nei, A. Lephotho, M. Mothibi, M. Putsaone, R. Machekano
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WEPE456 Development and utilization of Botswana’s ART failure management survey database
L. Bewlay, A. Avalos, H. Phillips, A. Chembezi, R. Lebelonyane, K. Keapoletswe, M. Mine
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WEPE457 The power of text messaging to reduce missed appointments among 12,000 clients at a comprehensive HIV clinic in Kampala, Uganda
P. Ogunsanya, A. Ogansanya, D. Mpagi, T. Colton
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WEPE458 SMS-based referral support between voluntary counseling and testing and HIV care sites in Vietnam
D. Ngo, T. Luu, T.T. Tran, T.T.M. Nguyen, T.A. Nguyen, M.T. Nguyen, J. Brophy
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WEPE459 Use of a unique identifier code system to track key populations reached under a combination prevention program in six countries of Central America
S. Lungo, C. Castellan, J. Rivas, K. Olivia
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C. Xavier, K. Jobarteh, R. Shiraishi, A. Auld, A. Cassamo
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WEPE461 Improving client retention in HIV care clinics using patient appointment books: a case of East Central Uganda
A. Mugisa, A. Mugume, T. Odong, H. Ndagire
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WEPE467  Mobile technology equips community-based volunteers to record and report high-quality, timely data on service delivery to orphans and vulnerable children in Nigeria
  Nigeria

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  H.M. Kilonzo, C. Juma
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