

HIV/AIDS in the Asia Pacific: Where is the Epidemic Heading?

2nd Asia Pacific AIDS & Co-infections Conference
(APACC)

Hong Kong, June 1, 2017

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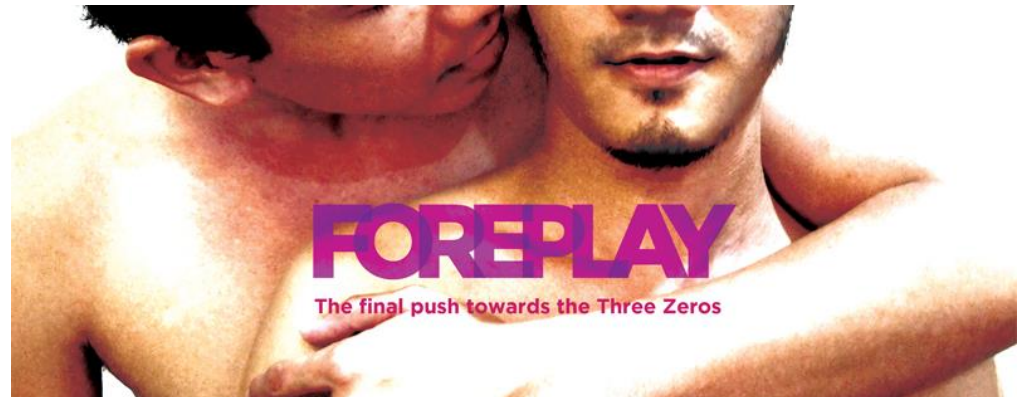
Johns Hopkins Bloomberg School of Public Health





Outline

- Current Epidemiology and Treatment Coverage
- Key population Epidemics in the Asia-Pacific
- Ways Forward
- Human rights and the Response



The HIV/AIDS Epidemic in Asia Pacific

(UNAIDS 2016)

5.1 million [4.4 million–5.9 million] people living with HIV

300 000 [240 000–380 000] new HIV infections

19 000 [16 000–22 000] new HIV infections among children

New HIV infections **declined by 5% overall**, 26% in children, between 2010 and 2015

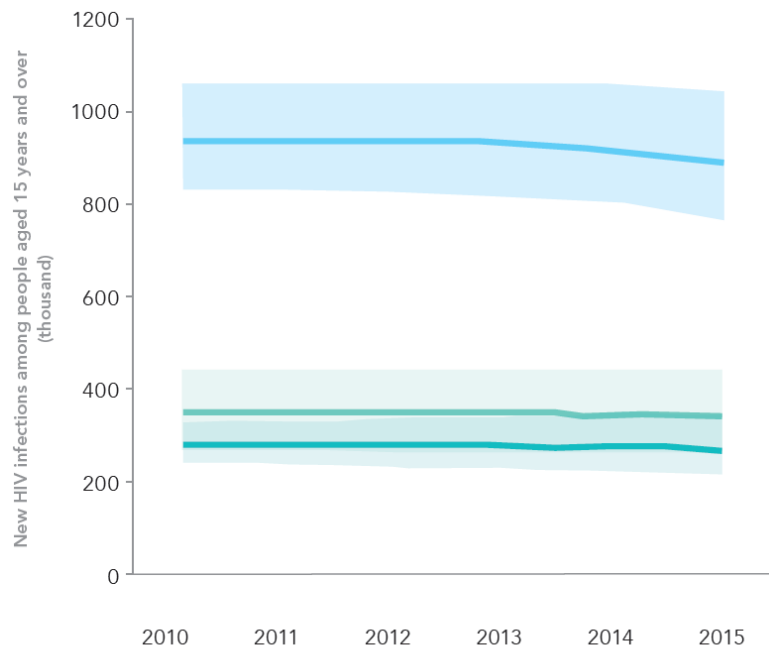
180 000 [150 000–220 000] people died of AIDS

AIDS-related deaths decreased by 24%, 2010-2015

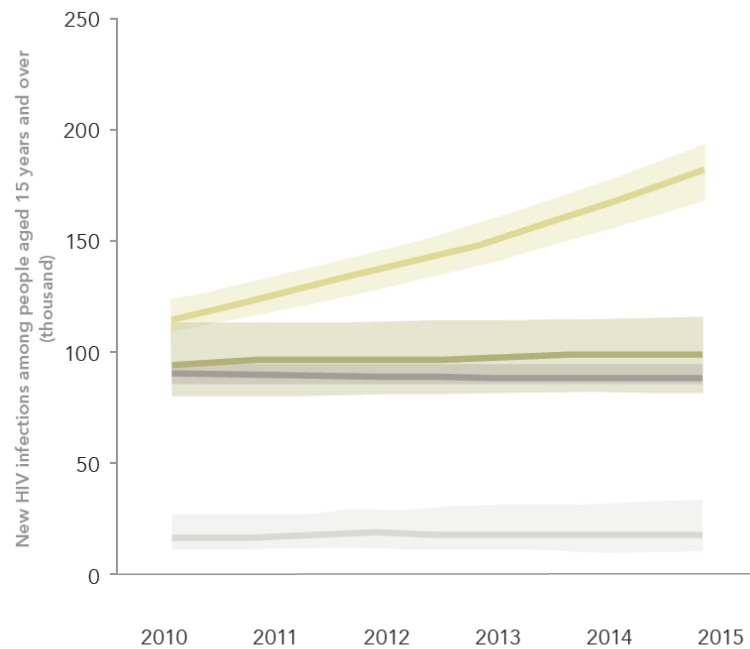
Treatment coverage was **41% [35–47%]** of all people living with HIV in Asia and the Pacific

3 million [2.3 million–3.8 million] adults did not have access to antiretroviral therapy in Asia and the Pacific in 2015

New HIV infections among people aged 15 years and over, 2010–2015

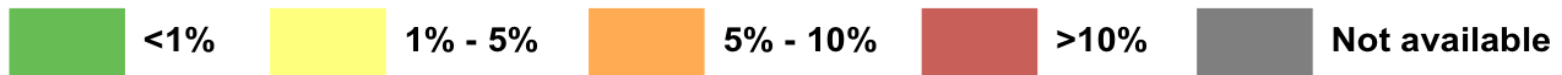
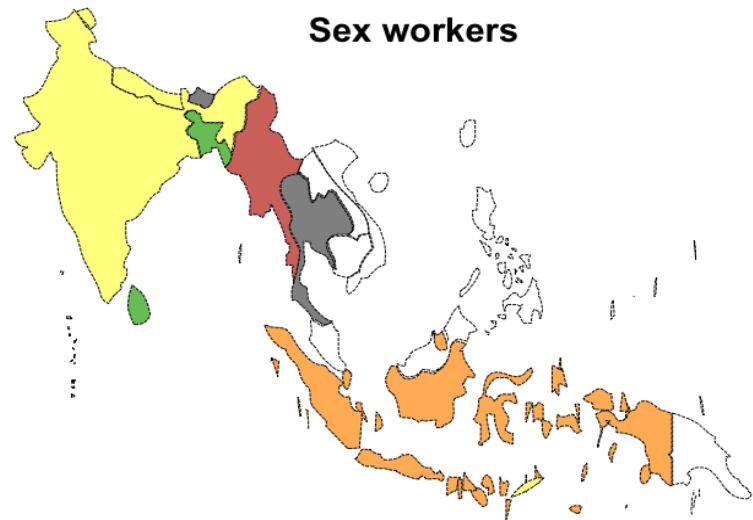
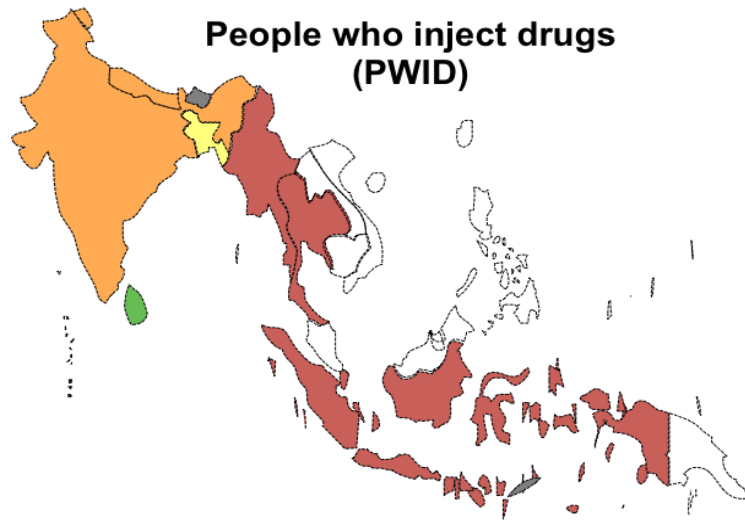
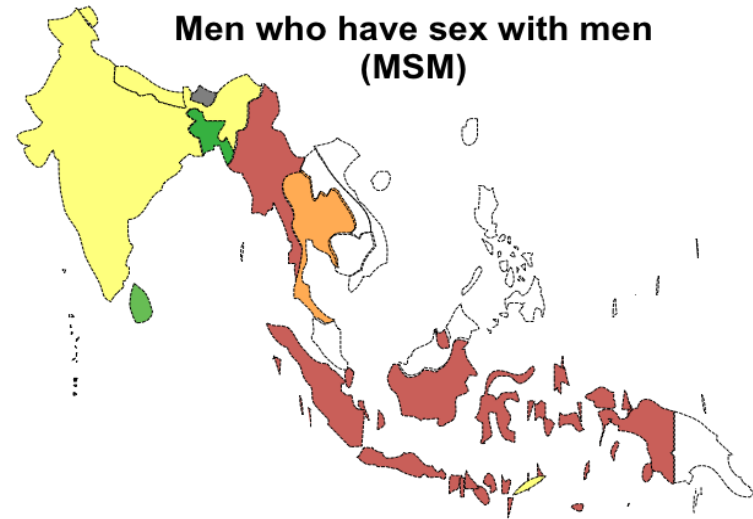
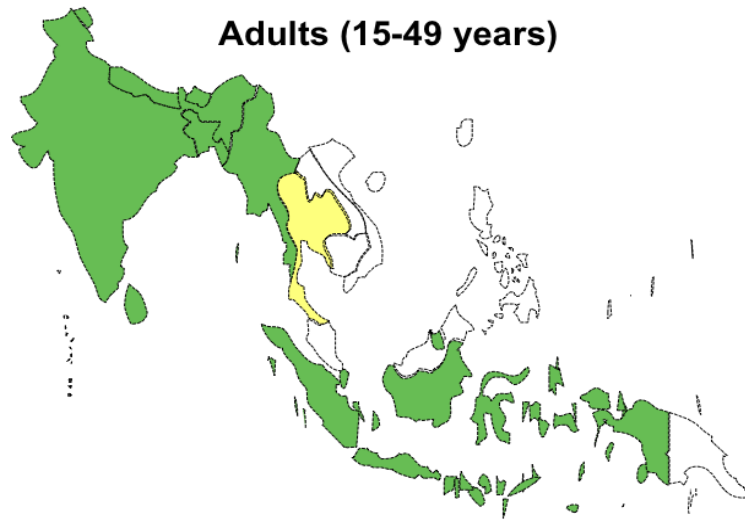


- Eastern and southern Africa
- Western and central Africa
- Asia and Pacific



- Eastern Europe and central Asia
- Latin America and the Caribbean
- Western and central Europe and North America
- Middle East and North Africa

HIV Prevalence in S & SE Asia. (Pendse et al, J V Erad. 2016)



Data are from 2015 except for Timor-Leste (for MSM and sex workers), Bangladesh (for PWID), and Nepal (for sex workers), which are from 2013

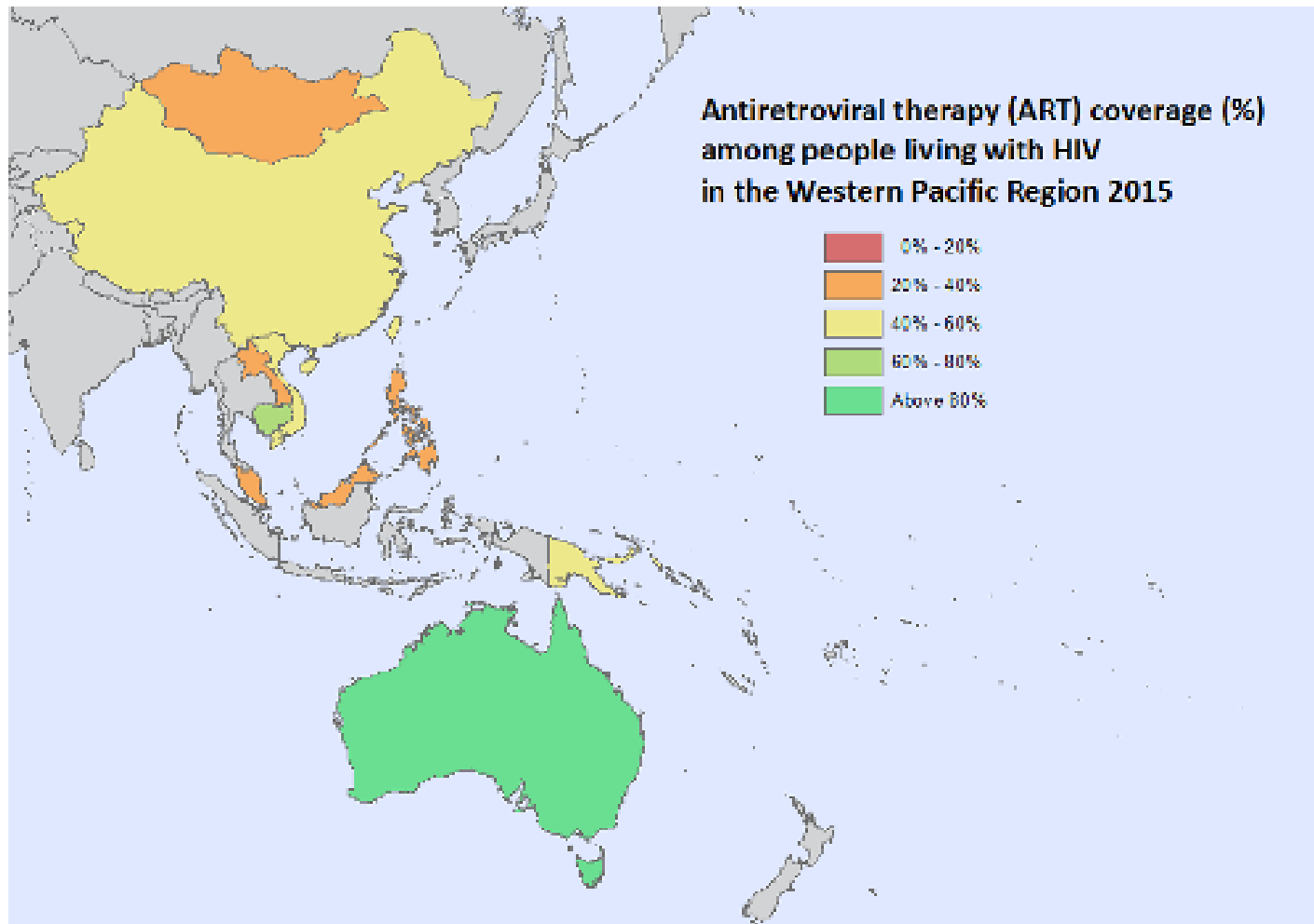
Coverage of Key Prevention Interventions

	Condom use (%)			No. of needles per PWID (2015)
	MSM	PWID	Sex workers	
Bangladesh	46%	35%	67%	243
Bhutan	NA	54%	NA	0
India	84%	77%	91%	259
Indonesia	81%	46%	68%	13
Maldives	NA	NA	NA	0
Myanmar	77%	23%	81%	223
Nepal	86%	53%	NA	25
Sri Lanka	47%	26%	93%	0
Thailand	82%	47%	95%	6
Timor-Leste	66%	NA	36%	0

HIV Care Continuum (2015)

	PLHIV aware of their HIV status		ART coverage			PLHIV on ART with viral suppression
	All	Pregnant women	All	Children (0-14)	Pregnant women	
Bangladesh	36%	NA	15%	31%	14%	70%
Bhutan	42%	NA	17%	NA	NA	NA
India	72%	42%	43%	37%	38%	89%
Indonesia	26%	25%	9%	22%	9%	NA
Maldives	NA	NA	NA	NA	NA	NA
Myanmar	62%	NA	47%	75%	77%	87%
Nepal	57%	35%	31%	56%	35%	90%
Sri Lanka	46%	24%	19%	44%	24%	88%
Thailand	89%	100%	62%	95%	96%	96%
Timor-Leste	47%	19%	37%	NA	NA	NA

Treatment Coverage Remains Low



Key Populations and HIV

- Key populations are those individuals and communities who have disproportionate burdens of HIV risk and disease *and* lack of access to essential HIV services
- Gay, Bisexual, and other men who have sex with men (MSM)
- Sex Workers of all genders
- People who inject drugs (PWID) of all genders
- Transgender Women who have sex with men
- HIV uninfected partners in discordant relationships
- **Adolescents from all of these communities**

Burden of HIV among men who have sex with men in Asia Pacific



THE LANCET

HIV in men who have sex with men July, 2012

www.thelancet.com



“In much of the world, [men who have sex with men] remain hidden, stigmatised, susceptible to blackmail if they disclose their sexual lives, and criminalised, even in health-care facilities....To address HIV in [these men] will take continued research, political will, structural reform, community engagement, and strategic planning and programming, but it can and must be done.”

Measures of HIV incidence among MSM in SE Asia region

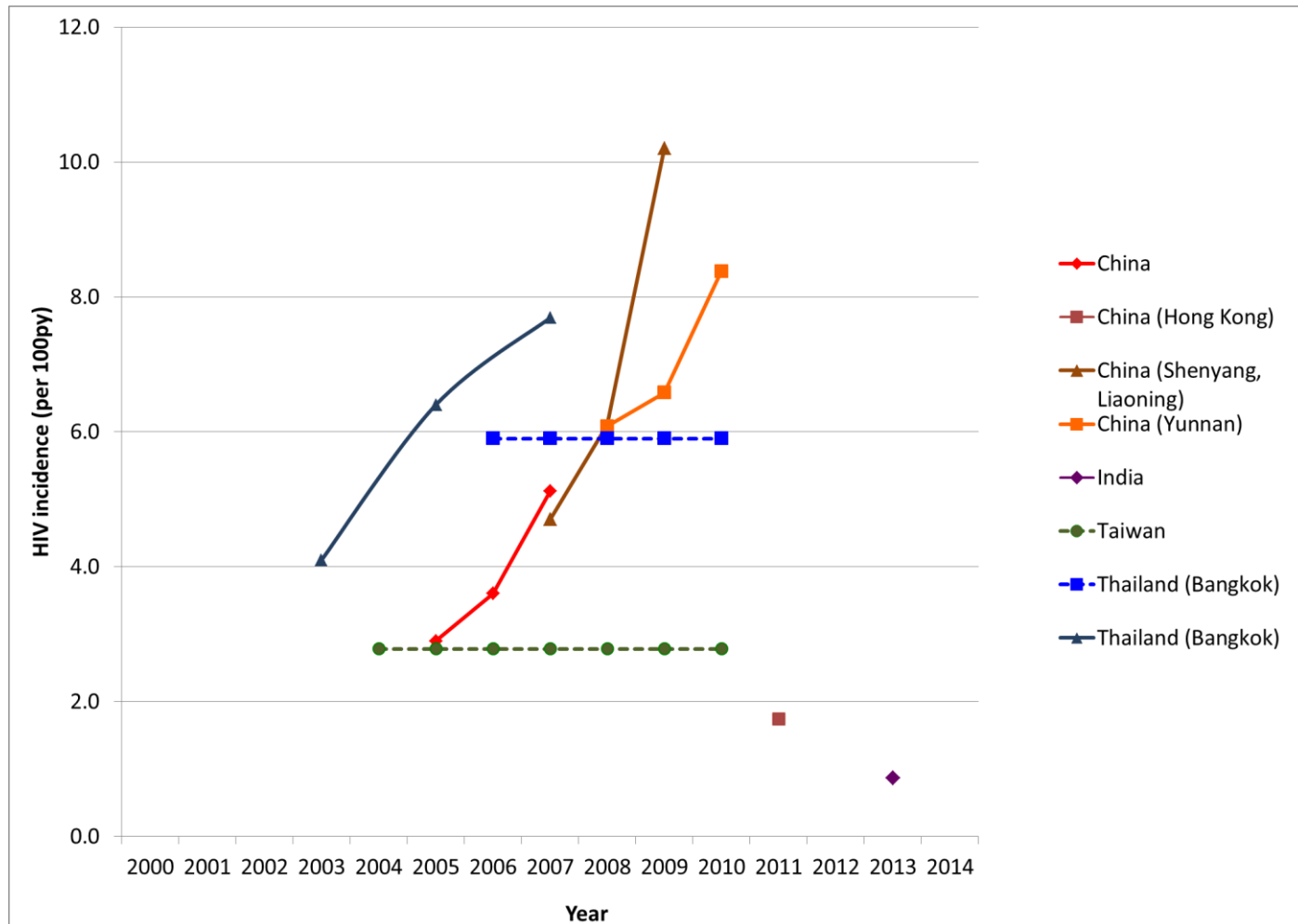
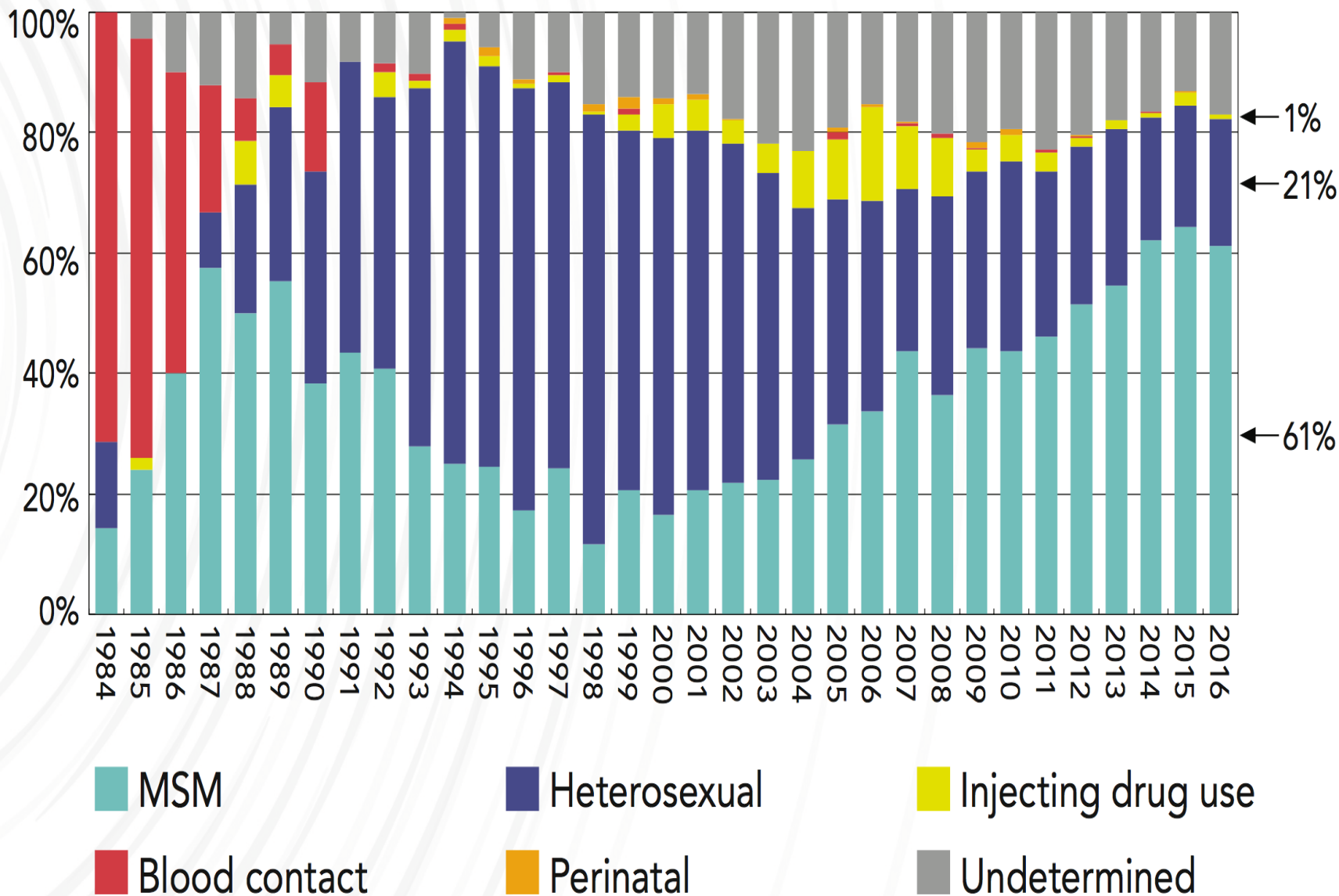


Figure 1. Route of transmission of HIV infection (1984-2016)



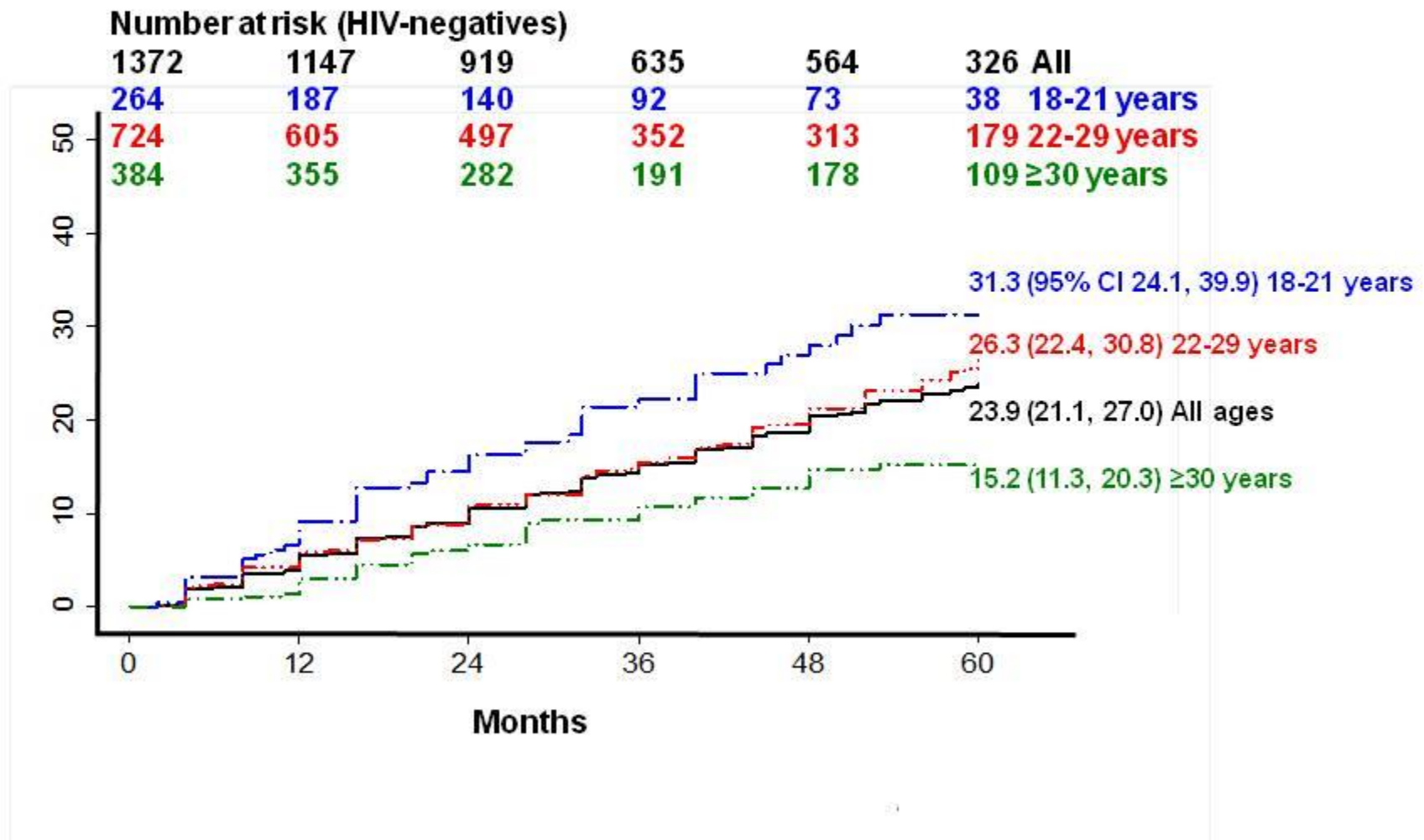
Source: *Recommended HIV/AIDS Strategies for Hong Kong (2017 – 2021)*, Hong Kong Advisory Council on AIDS, May 2017



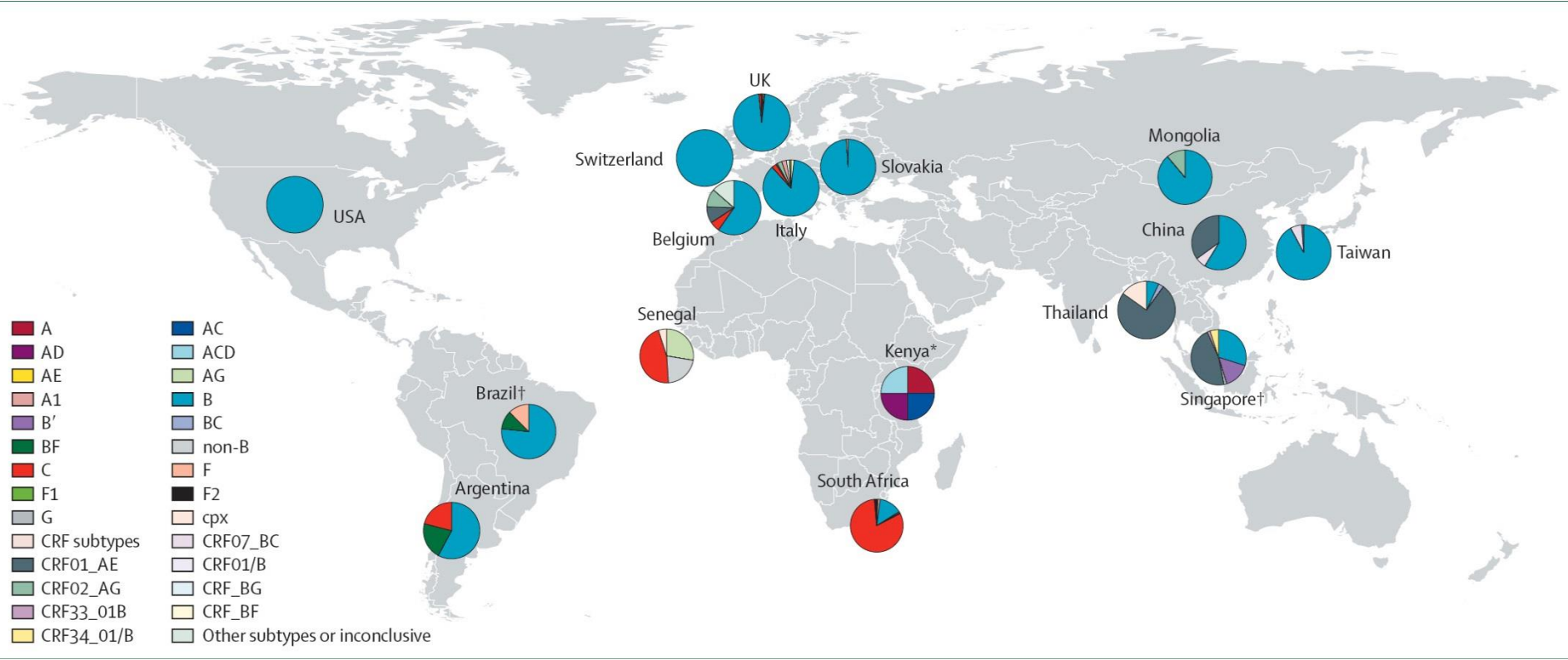
The Changing Context



Sixty months cumulative HIV incidence in a cohort of men who have sex with men, Bangkok, Thailand, 2006 – 2012, by age group

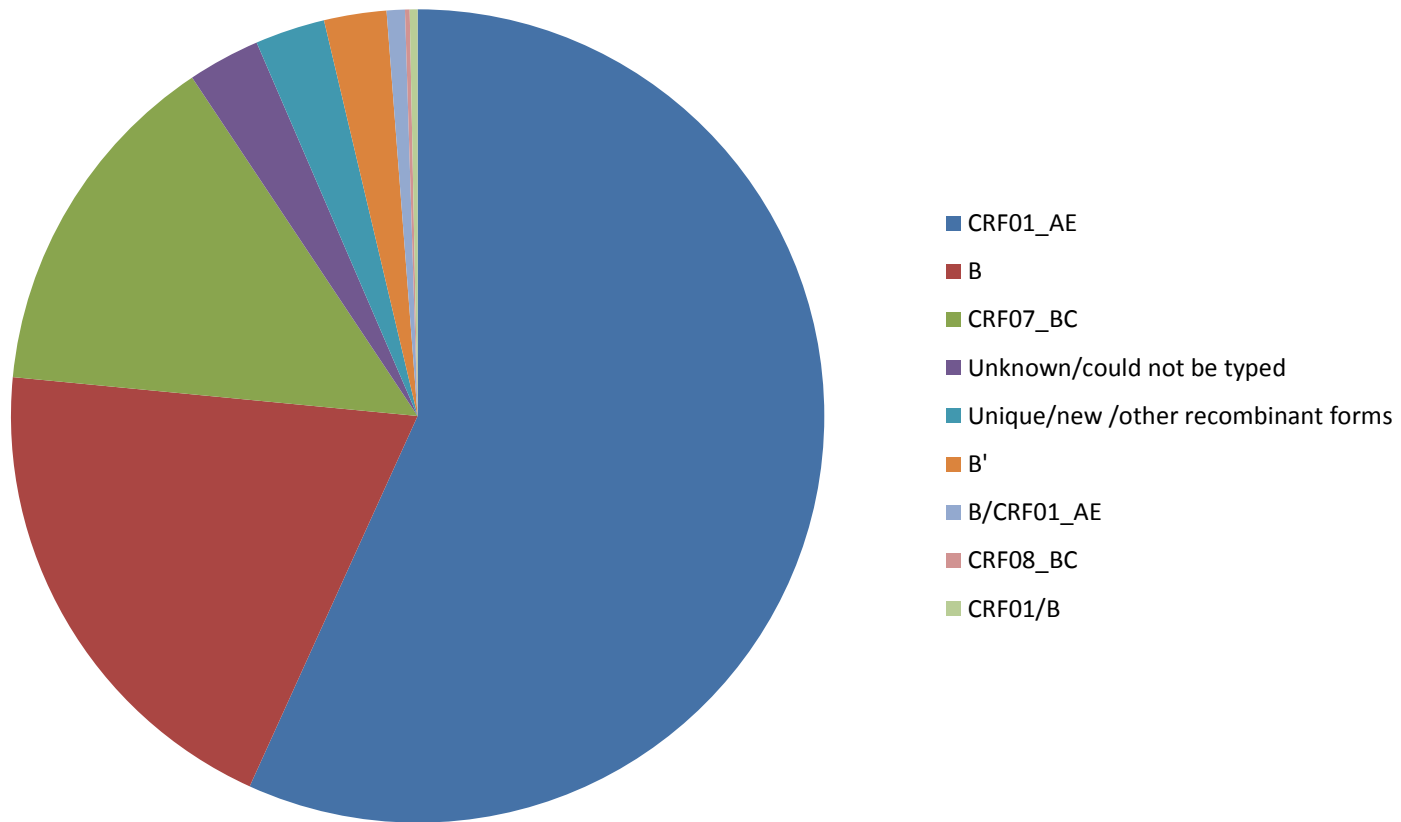


Molecular Epidemiology of HIV subtypes in MSM, 2007-11



Source: Beyrer, Baral, van Griensven, Goodreau, Chariyalertsak, Wirtz, Brookmeyer, *The Lancet*, 2012

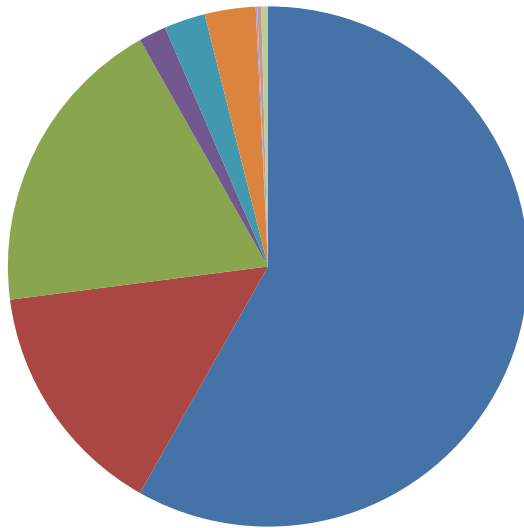
Distribution of HIV-1 Subtypes in MSM in Asia



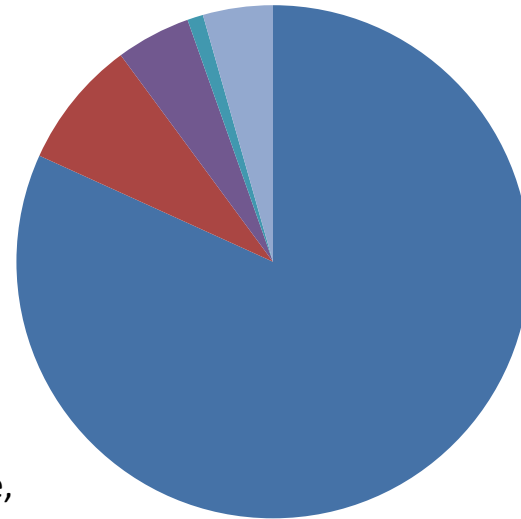
Systematic Review, 2010-15

Distribution of HIV-1 Subtypes in MSM by Region

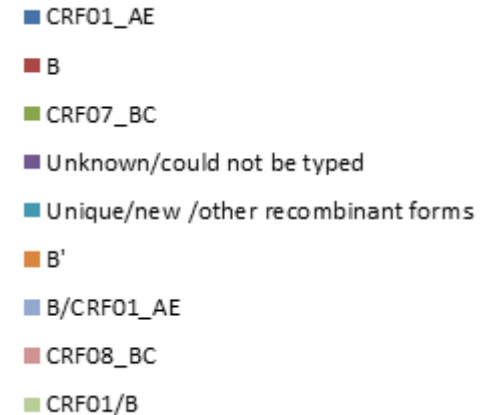
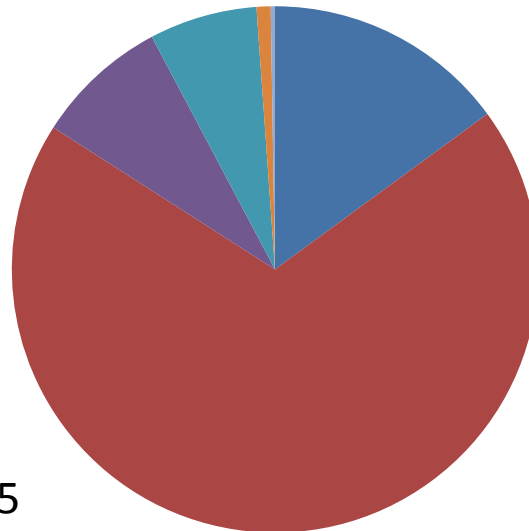
Mainland China



Thailand



Other (Taiwan, Singapore, Indonesia, Malaysia)

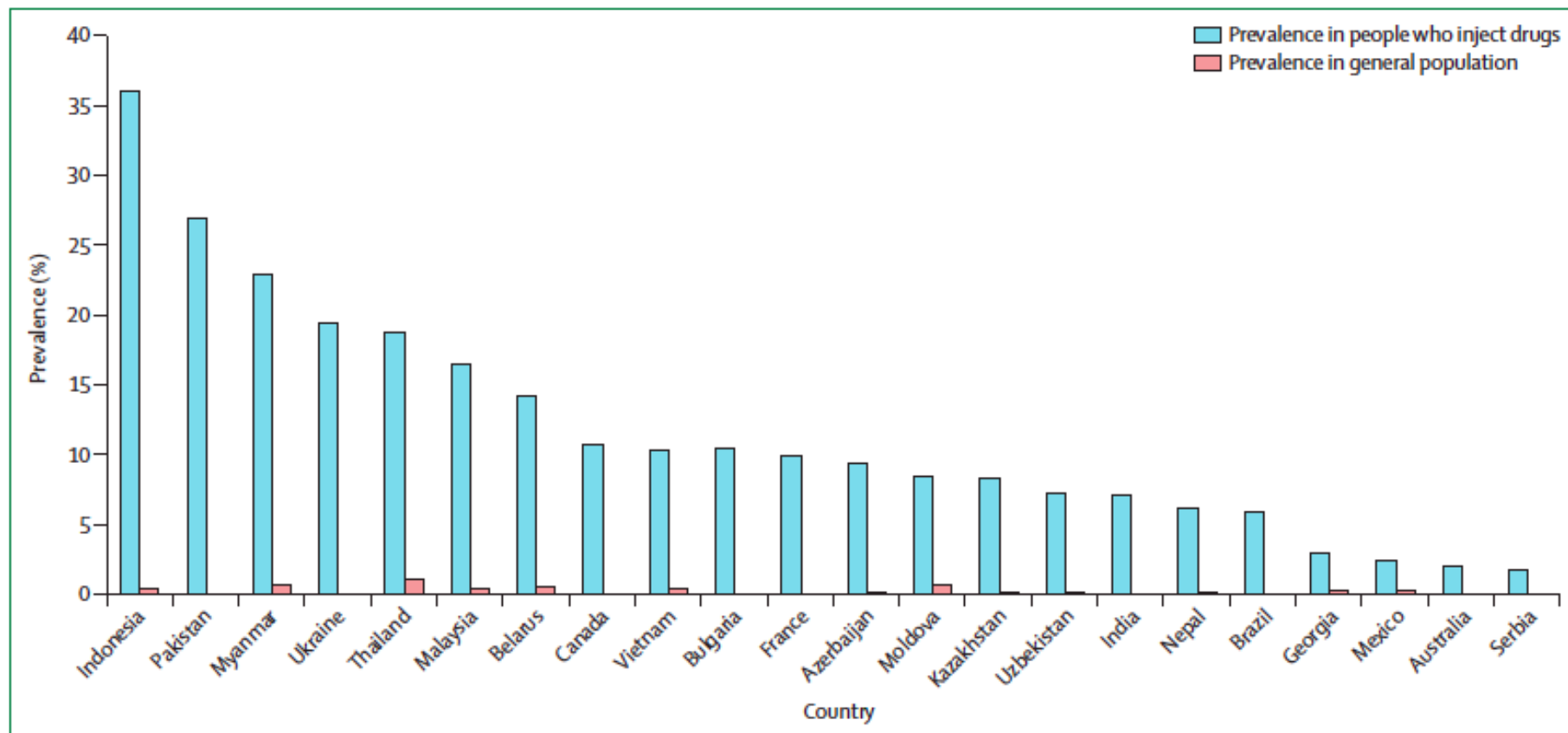


Connections

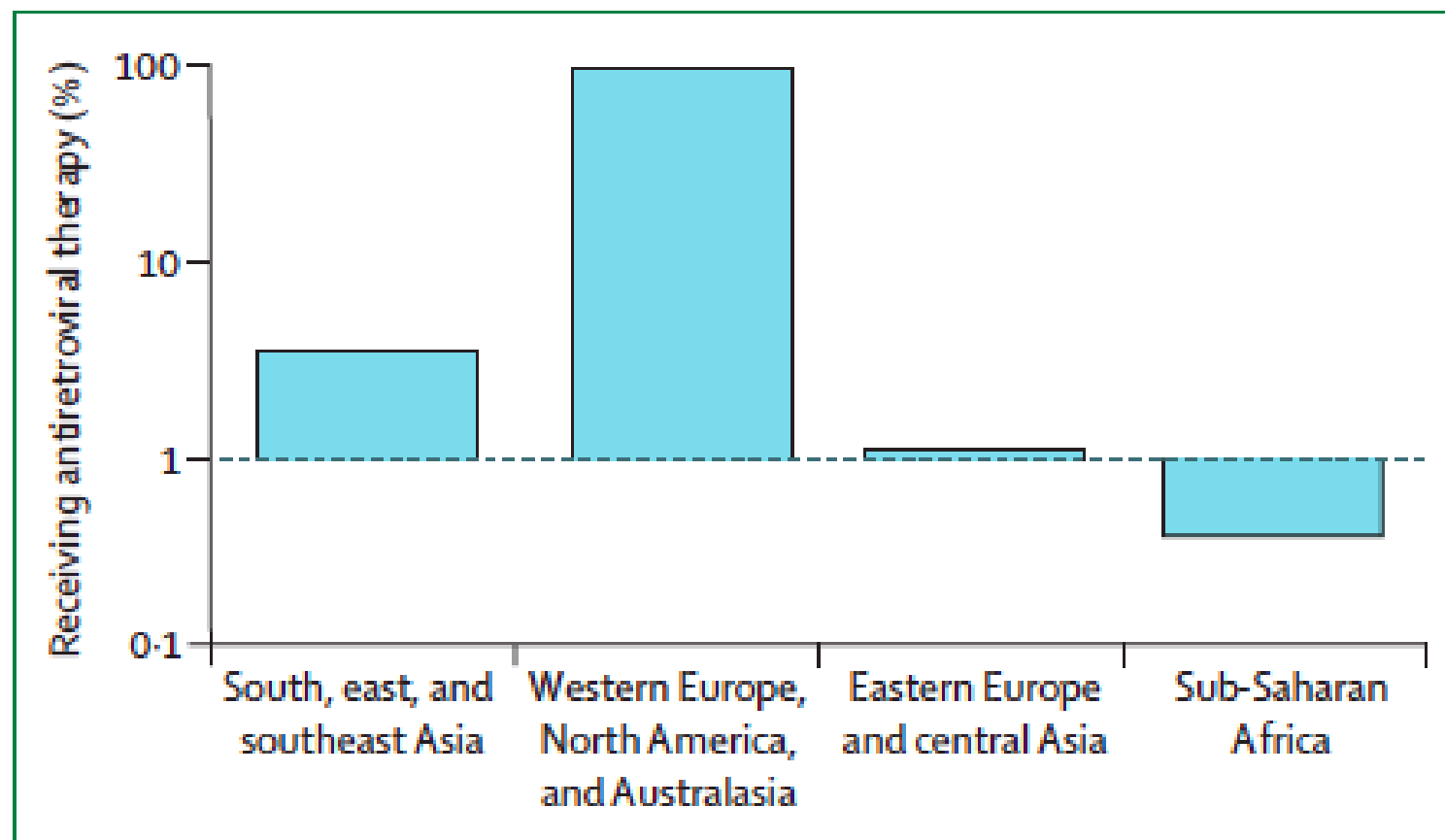


- “Thailand has been the top destination for outbound tourism for Chinese in the first decade of China’s ‘free travel policy’ as it was the first country Chinese citizens were allowed to visit.” Feng Y, et al AIDS 2013
- “MSM contact is becoming a major route of local CRF01_A/E transmission in Hong Kong.” Chen JHK, et al JAIDS 2009
- “...the dominant genetic forms of HIV-1 changed from subtype B to CR01_A/E among MSM population in China.” Zhang L, et al, IJ STD & AIDS 2014

Prevalence of HIV infection among people who inject drugs and in the general population



Proportion of injecting drug users living with HIV who receive antiretroviral therapy, by region

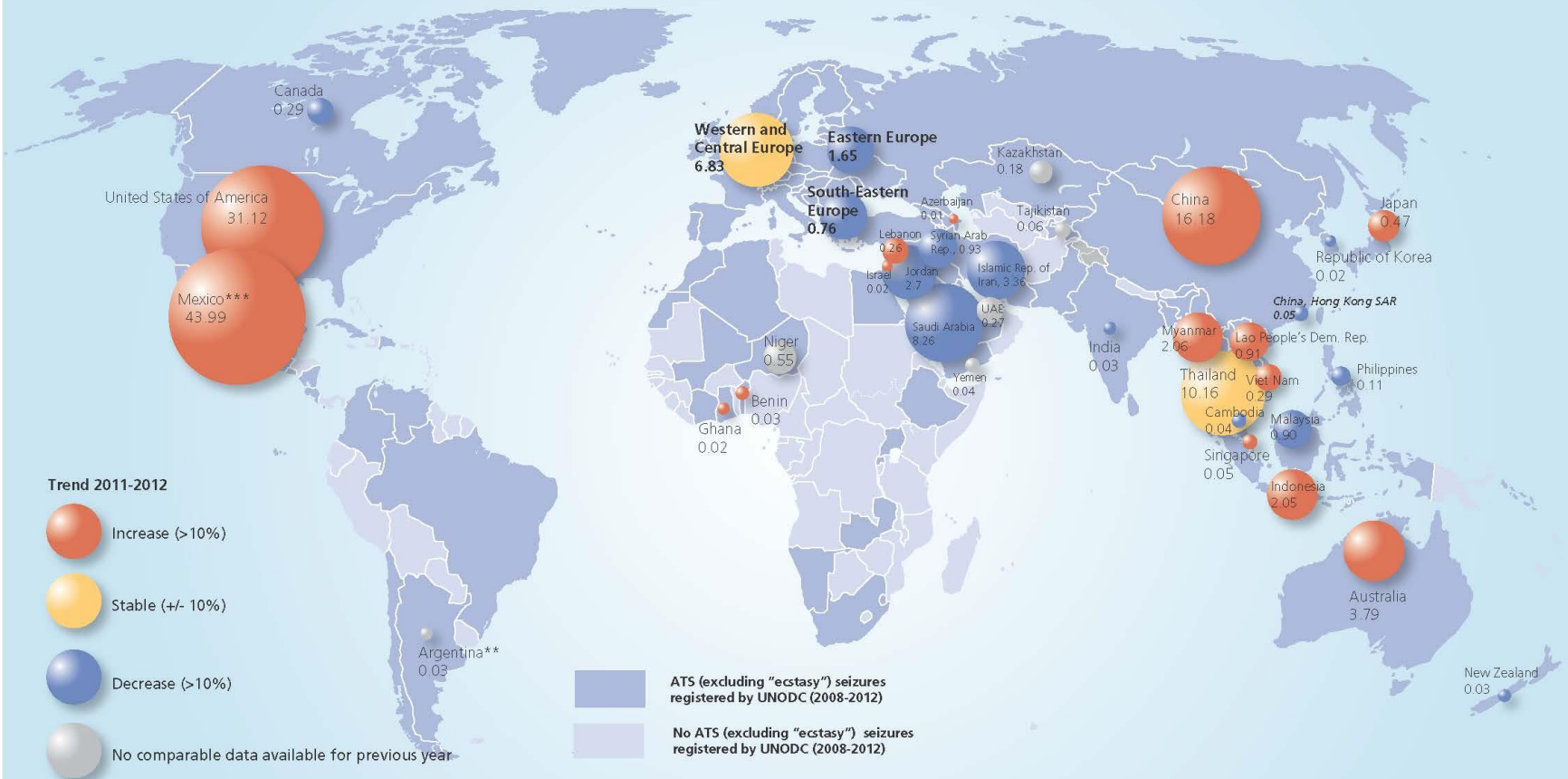


Stimulant (ATS) Seizures: WDR

Seizures of ATS (excluding "ecstasy"-type substances), 2012

Weight in ton equivalents*.

The present map includes data from countries and territories for which official seizure data are available and amount to more than 10 kg.



Source: UNODC annual report questionnaire data, supplemented by other official sources.

Note: The boundaries and names shown and the designations used on this map do not imply official endorsement or acceptance by the United Nations.

Dashed lines represent undetermined boundaries. Dotted line represents approximately the Line of Control in Jammu and Kashmir agreed upon by India and Pakistan. The final status of Jammu and Kashmir has not yet been agreed upon by the parties.

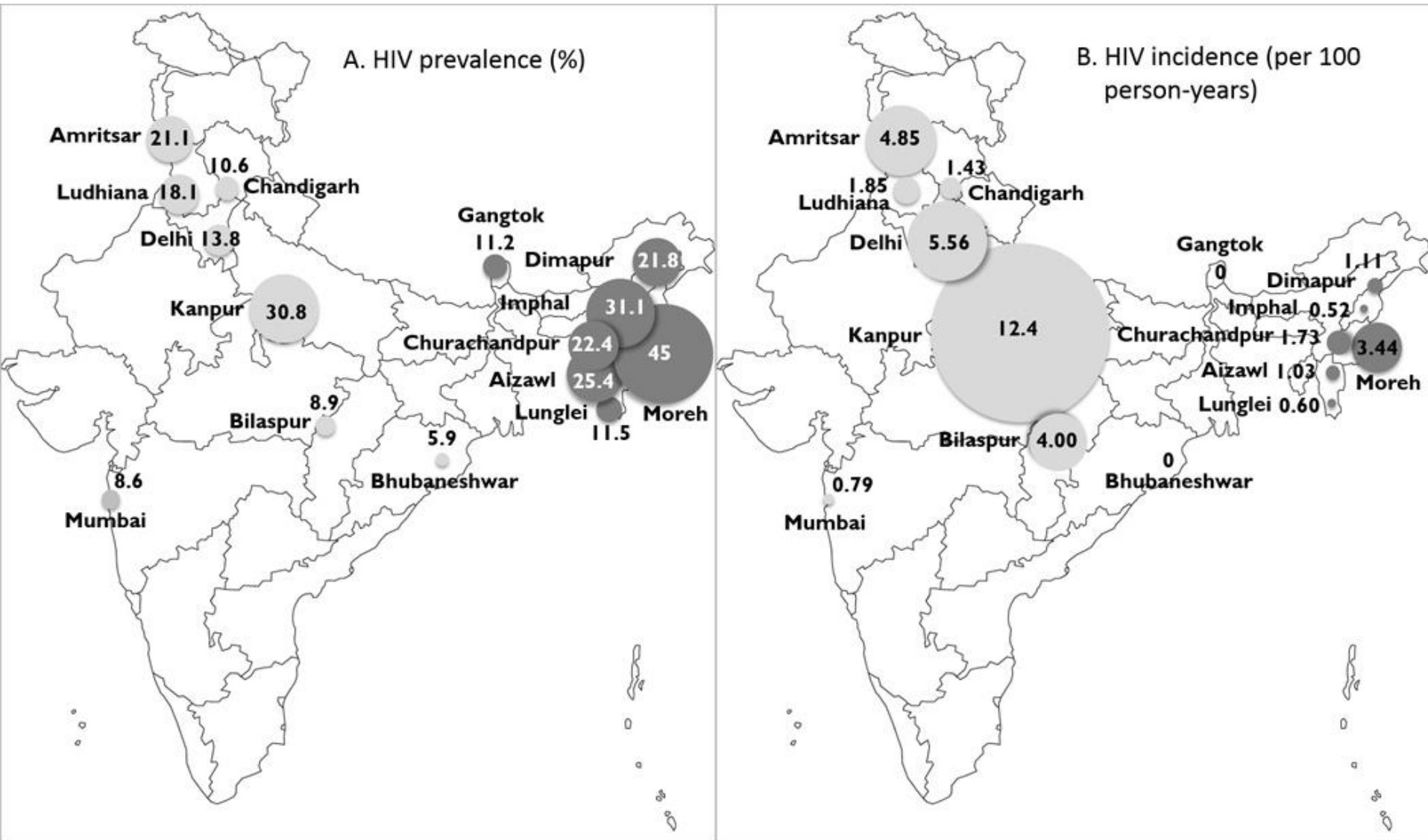
The final boundary between the Republic of Sudan and the Republic of South Sudan has not yet been determined.

* This quantity reflects the bulk weight of seizures of amphetamine-type stimulants (excluding "ecstasy"-type substances) (amphetamine, methamphetamine, non-specified ATS, prescription stimulants and other stimulants), with no adjustment for purity. Seizures of amphetamine, methamphetamine and non-specified ATS reported in tablets or similar units are converted using assumed bulk tablet weights between 90mg and 300mg, depending on the region and specific drug type and based on information currently available to UNODC. The conversion factors are listed in the methodology section of the World Drug Report. Seizures reported by volume are converted assuming 1 litre has a mass of 1 kg.

** Available data for 2011 were incomplete and therefore not comparable to 2012 data.

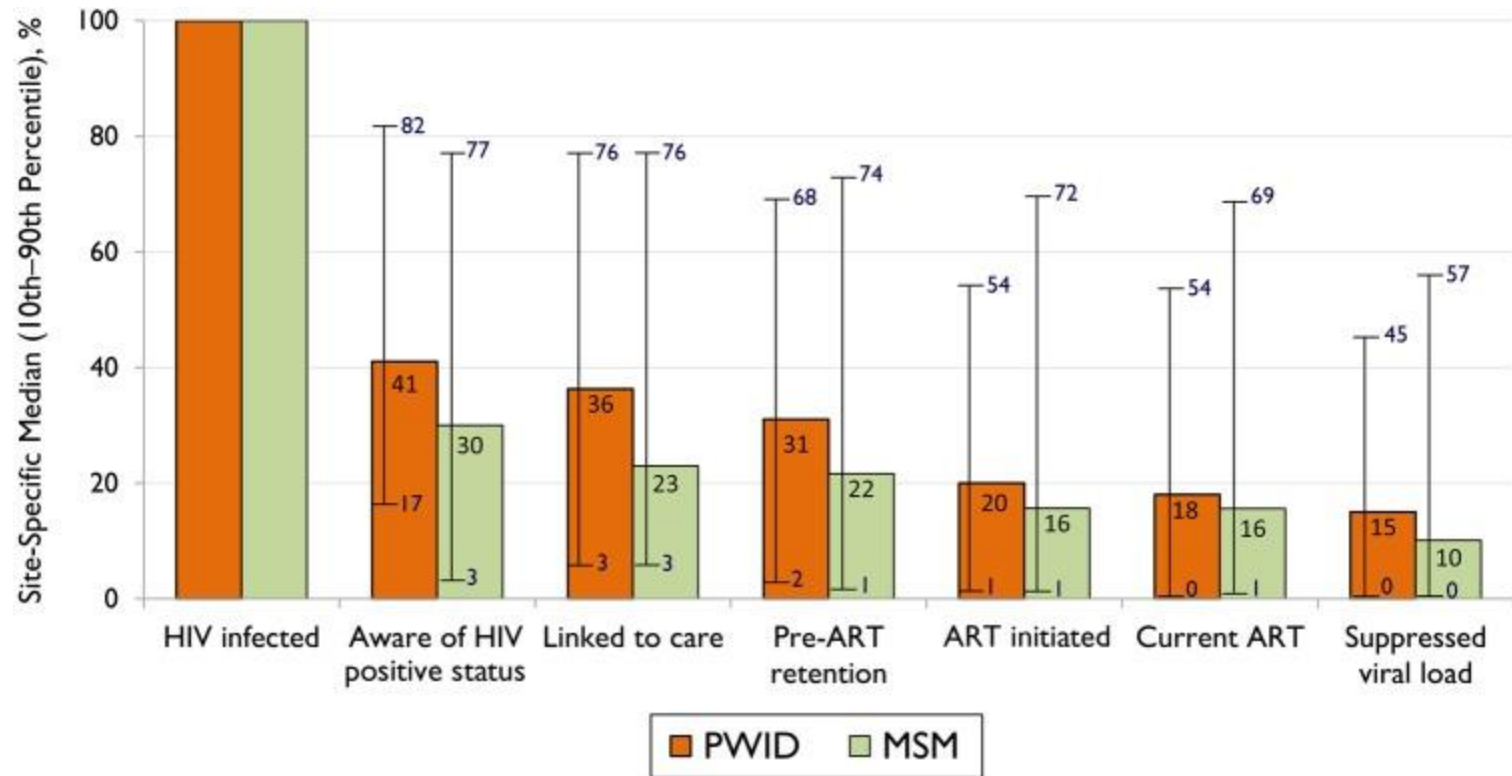
*** Includes seizures of 10,786 litres of methamphetamine.

High HIV burden among people who inject drugs in 15 Indian cities. Lucas, et al, AIDS 2015.



Estimated HIV prevalence (A) and incidence (B) among people who inject drugs recruited from 15 Indian cities. Circle diameters are proportional to site point estimates. Northeast sites are shown in dark grey and North/Central cities are shown in light grey.

HIV Care continuum among MSM and PWID in India: barriers to successful engagement. (Mehta, et al, *CID*, 2015.)



Human immunodeficiency virus (HIV) care continuum for 1146 HIV-infected men who have sex with men (MSM) and 2906 HIV-infected persons who inject drugs (PWID) across 27 sites (26 cities) in India. Numbers represent medians of the respondent-driven sampling (RDS) II-weighted site-specific percentages, along with the 10th and 90th percentiles [26]. Of the 911 PWID who had been linked to care and had not started antiretroviral therapy (ART), 90.7% were eligible for ART, and 9.3% were not; of the 446 MSM, 86.9% were eligible for ART, and 13.1% were not.

Ways Forward



The agenda for KP
And HIV in Asia

Adam's Love Campaign



World Health
Organization

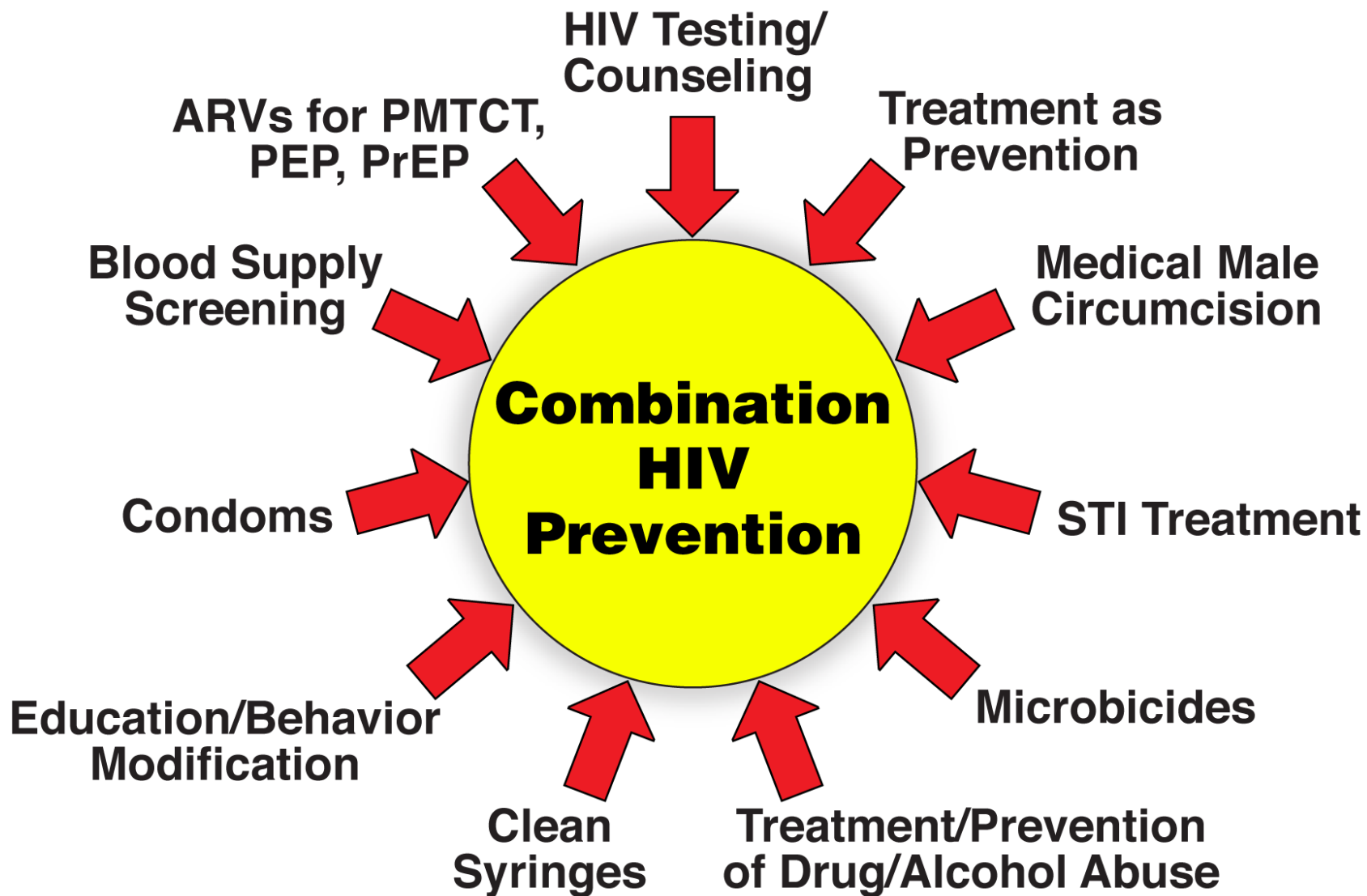
30 September 2015

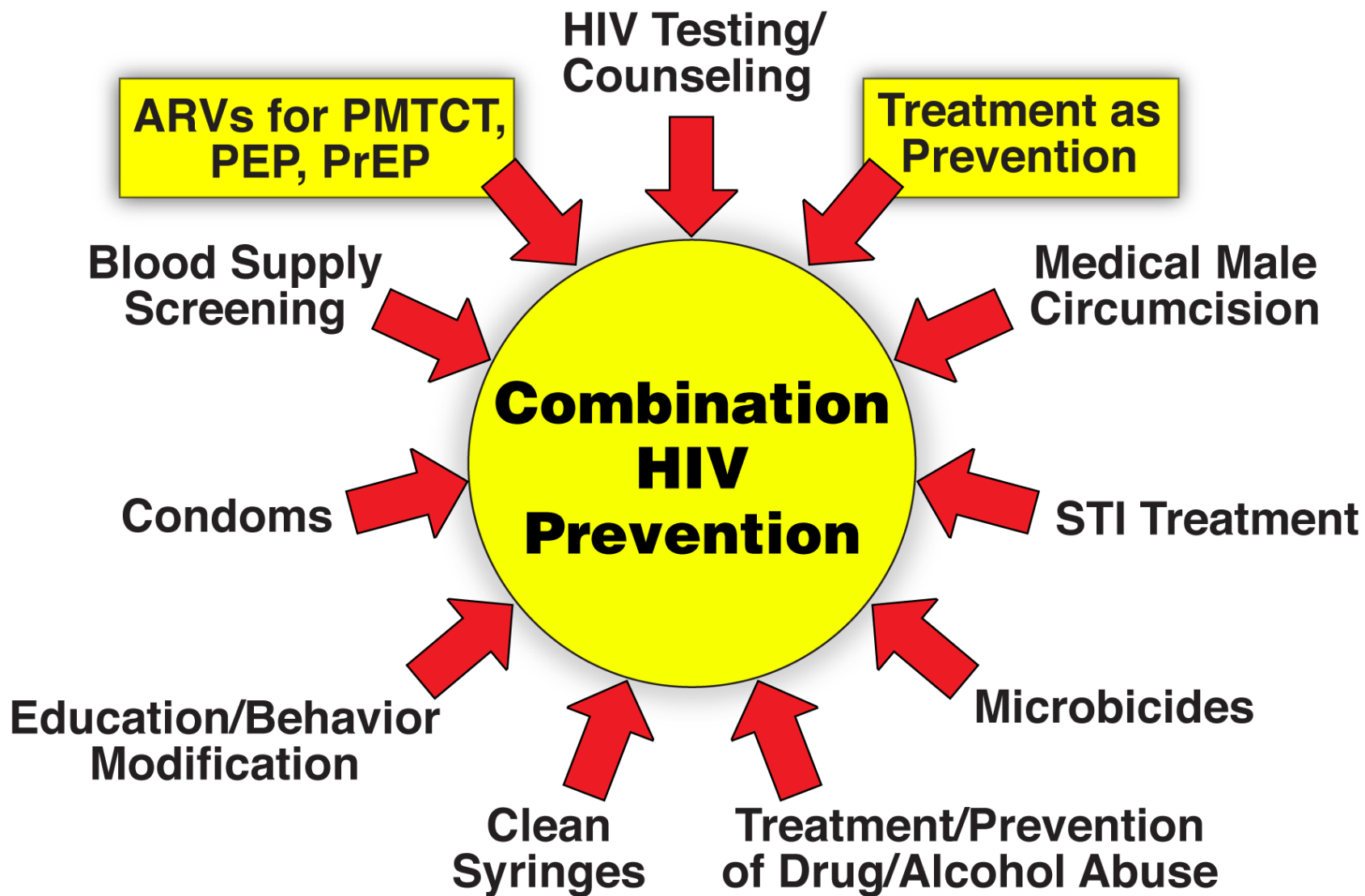
**Treat All People Living with
HIV, Offer Antiretrovirals as
Additional Prevention
Choice for People at
Substantial Risk**

PrEP Access in Asia-Pacific



- No country in region is providing PrEP as part of national health
- Thailand has approved Truvada for PrEP and conducting pilots
- India and China have demonstration projects
- Australia has demonstrations and some large scale studies that allowing access at state level
- Hong Kong strategy calls for PrEP demonstrations
- *Efficacy of PrEP for MSM shown in 2011*





How to improve chemoprophylaxis effectiveness?

New oral PrEP drugs and dosing strategies



Vaginal & Rectal
Microbicides
(MTN 017)



Intravaginal rings
(Dapivirine, Tenofovir
+/- Contraception)



Alternative delivery systems and formulations

Novel adherence strategies

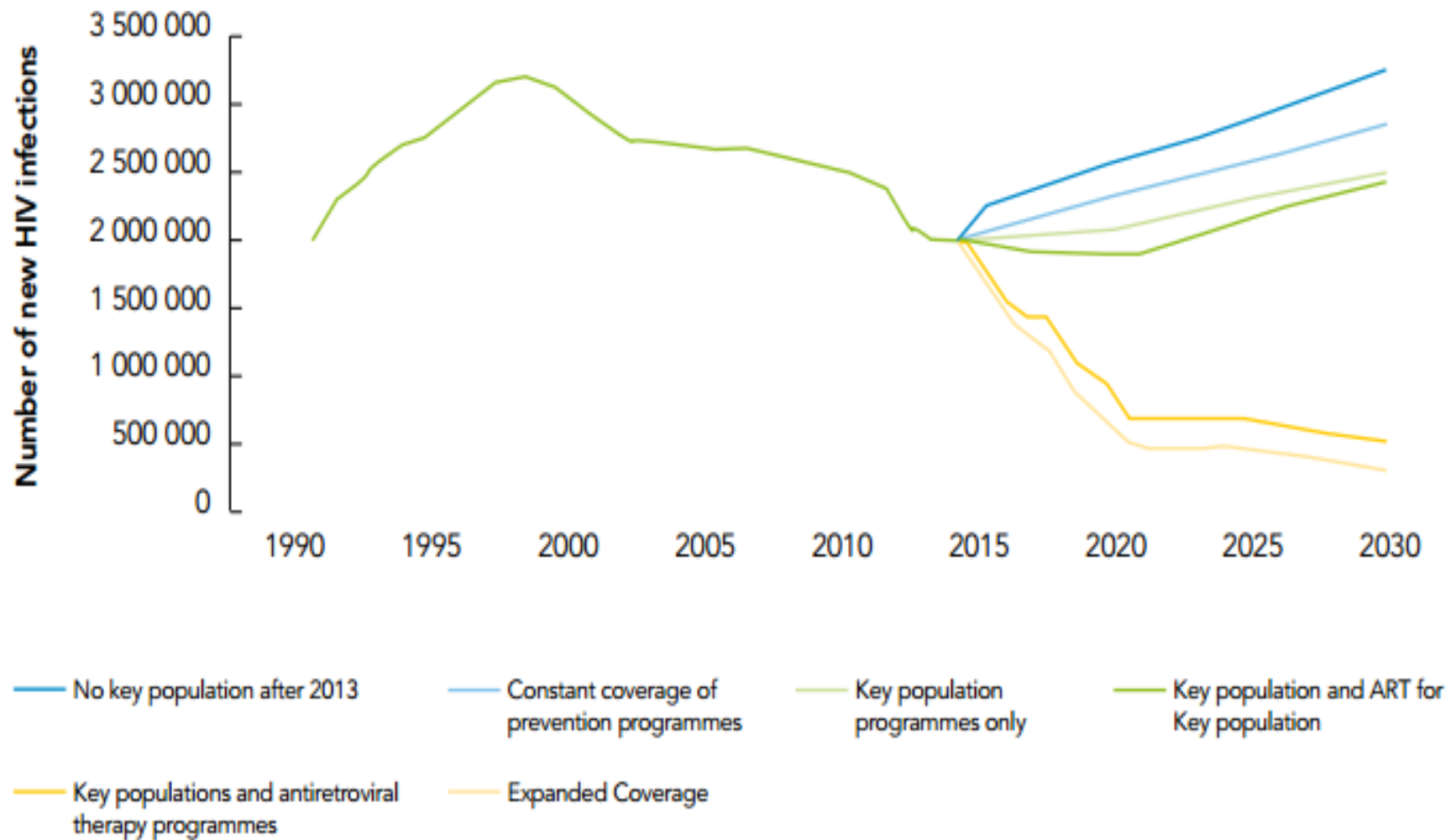


Hard-to-reach populations; PWUD



Injectables:
ARVs and mAbs
(Cabotegravir,
VRC01)

Cost of inaction: number of new HIV infections (2010–2030, various scenarios)



Human Rights

Former UN SG Ban Ki-moon

Dec. 11, 2012



“The very first article of the Universal Declaration of Human Rights proclaims that, ‘All human beings are born free and equal in dignity and rights.’ **All human beings** – not some, not most, but all. No one gets to decide who is entitled to human rights and who is not.

Let me say this loud and clear: lesbian, gay, bisexual, and transgender people are entitled to the same rights as everyone else. They, too, are born free and equal.”

Philippines: Duterte's War on Drugs

Human Rights Watch: "License to Kill" March, 2017

- Since the inauguration of President Rodrigo Duterte on June 30, 2016, and his call for a "war on drugs," Philippine National Police officers and unidentified "vigilantes" have **killed over 7,000 people**.
- The anti-drug campaign dubbed "Operation Double Barrel" ... in practice **has been a campaign of extrajudicial execution in impoverished areas...**
- Duterte's outspoken endorsement of the campaign implicates him and other senior officials in possible incitement to violence, instigation of murder, and in command responsibility for crimes against humanity

QUEZON CITY: Protesters stage a "die-in" to dramatize the rising number of extra judicial killings related to Philippine President Rodrigo Duterte's "War on Drugs" yesterday in front of the Philippine National Police headquarters. —AFP (May 15, 2017)



Duterte's war and HIV



Duterte's War on Drugs not only violates human rights, it is also likely to have significant negative public health consequences...harsh drug enforcement can lead to drug users going underground away from critical health services.

This can fuel the transmission of HIV and Hepatitis C among people who used drugs and may discourage people with drug dependence from seeking effective treatment services.

Rights Violations: Chechnya 2017



“If there were such people in Chechnya, the law-enforcement organs wouldn’t need to have anything to do with them because their relatives would send them somewhere from which there is no returning.”

- Russian police round up LGBT activists demonstrating against persecution of gay men in Chechnya. [*Independent May 1, 2017*]
- More than 100 men have been rounded up and detained in secret prisons by authorities in recent weeks, with many beaten and tortured.
- At least four are alleged to have been killed.



Indonesia Police Arrest 141 Men Accused of Having Gay Sex Party

JON EMONT, NYT, MAY 22, 2017



Sharia court sentences gay men to public lashing in Indonesia

--Yosef Riadi and Juliet Perry, CNN May 17, 2017

Increasing intolerance in many communities in the region.

Stigma and fear reduce gay/MSM access to essential HIV services and can measurably increase HIV viral loads at community level. (Schwartz, et al, IAS 2015).

AMERICA LAST

How the 'Trump Effect' Is Endangering LGBT People
Worldwide International activists say the effects of the Trump administration's actions (and inactions) are already being felt.



The Daily Beast
Jay Michaelson
05.19.17 1:00 AM ET

Human Rights Undermined

“It’s not just liberal democracy in danger,”

“It’s the rule of law internationally. It’s the international system itself. It’s the notion that human rights are universal and sacred. That’s what’s at stake with the Trump administration.” --Jessica Stern, OutRight Action Intl.

First SOGI Independent Expert named for UN: Prof. Vitit Muntarbhorn

The United Nations was split almost down the middle in a vote on whether or not to keep the Independent Expert on Sexual Orientation and Gender Identity (SOGI)—the body's first-ever appointment tasked with monitoring human rights abuses against LGBTQ people.

[MARY EMILY O'HARA, NBC NEWS, 12/19/16]

Vitit Muntarbhorn, was appointed in September with a three-year mandate to investigate anti-LGBTQ abuses.



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Assoc. Thailand
APCOM

