



Treatment as Prevention – From Research Hypothesis to Global Policy and Beyond
Prof. Julio Montaner, University of British Columbia
A Webber Training Teleclass








Treatment as Prevention®

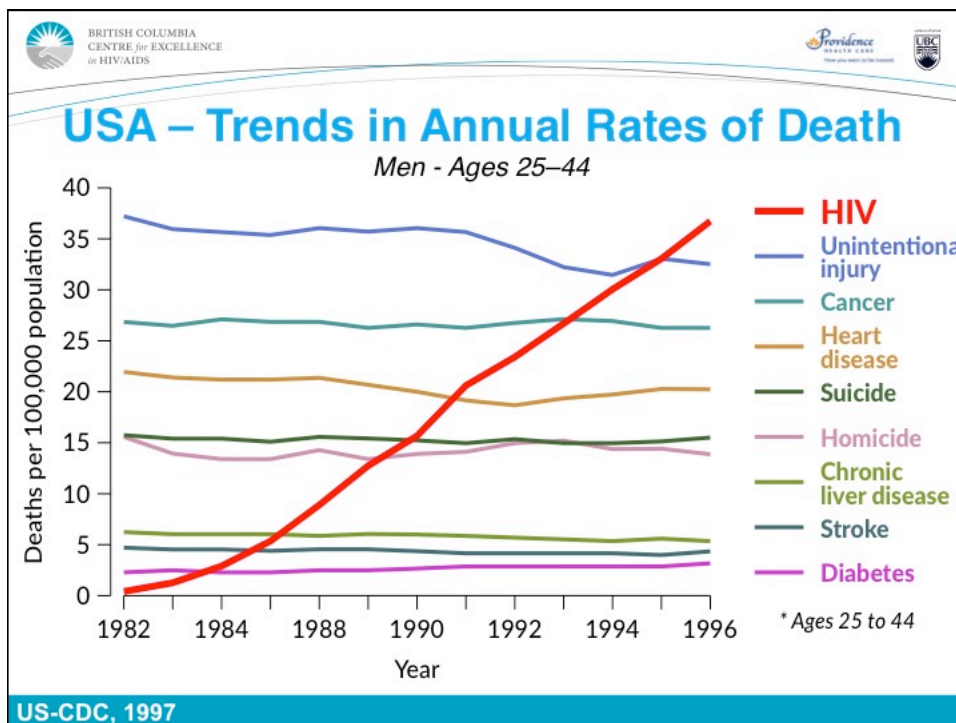
From Research Hypothesis to Global Policy and Beyond

Julio Montaner, OC, OBC, MD
 Professor of Medicine and Head, Division of AIDS, University of British Columbia
 Director, BC Centre for Excellence in HIV/AIDS at Providence Health Care
 UNAIDS Special Advisor on HIV Therapeutics

Hosted by Bruce Gamage
 Provincial Infection Control Network of BC

www.webbertraining.com December 3, 2015

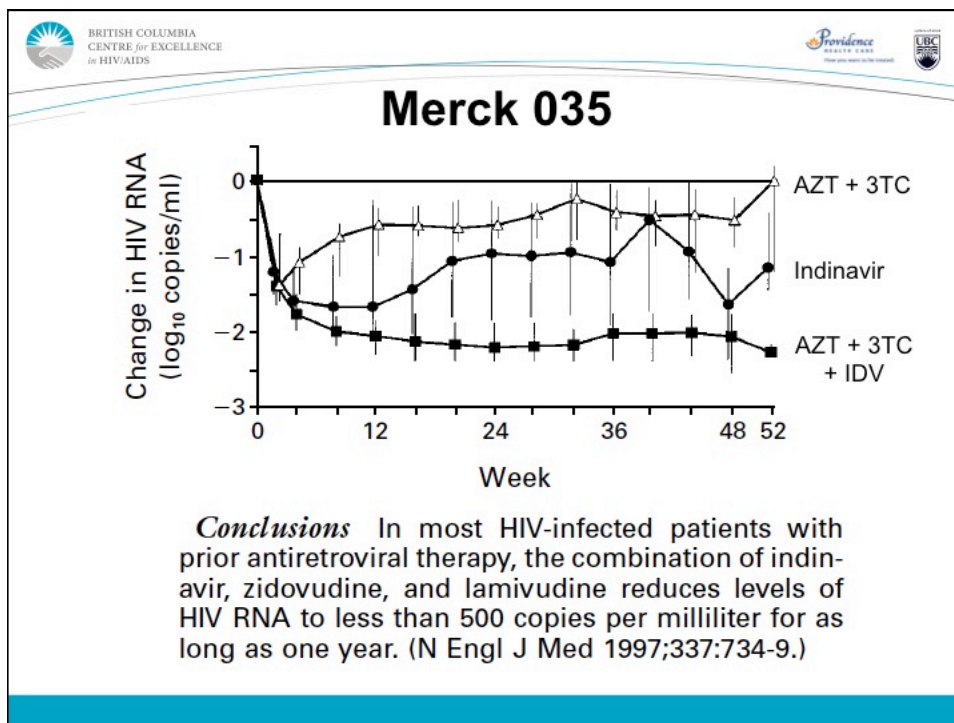
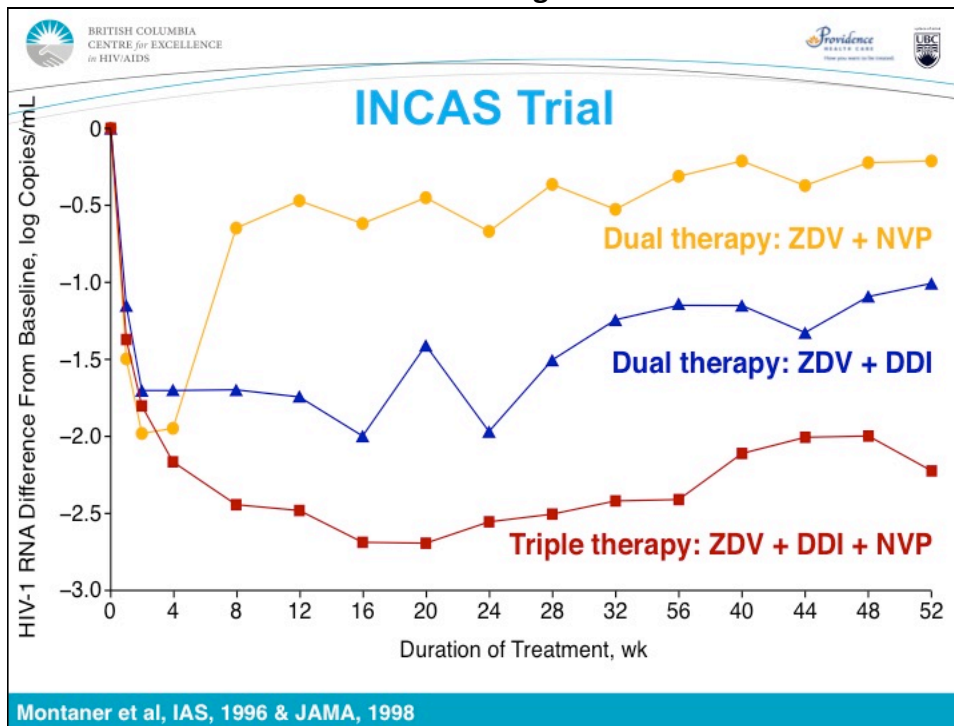


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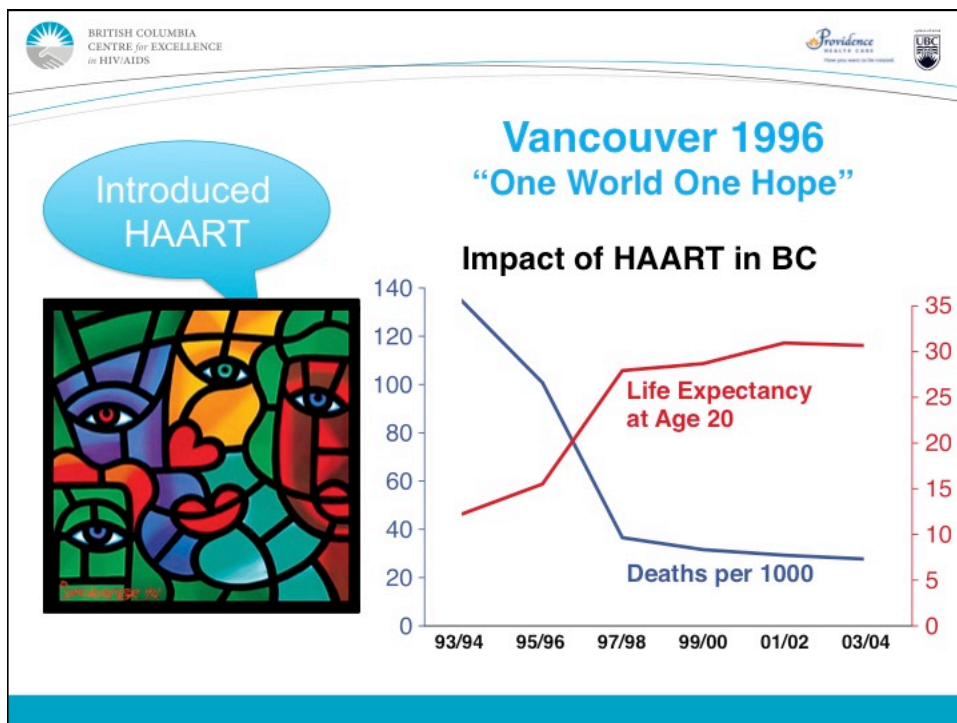
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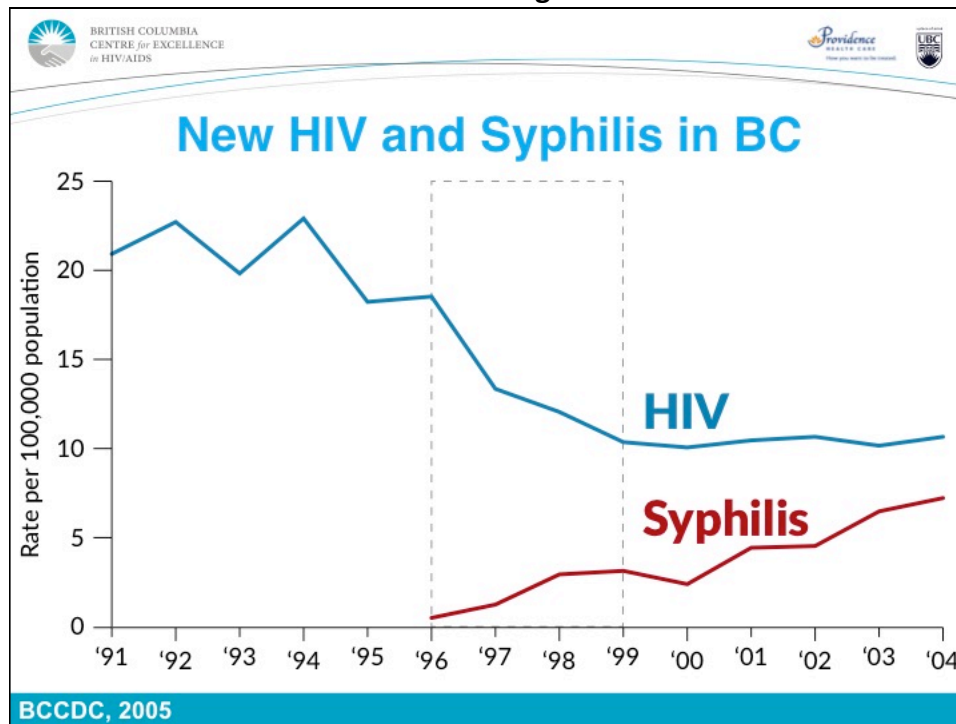
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THE LANCET

Viewpoint

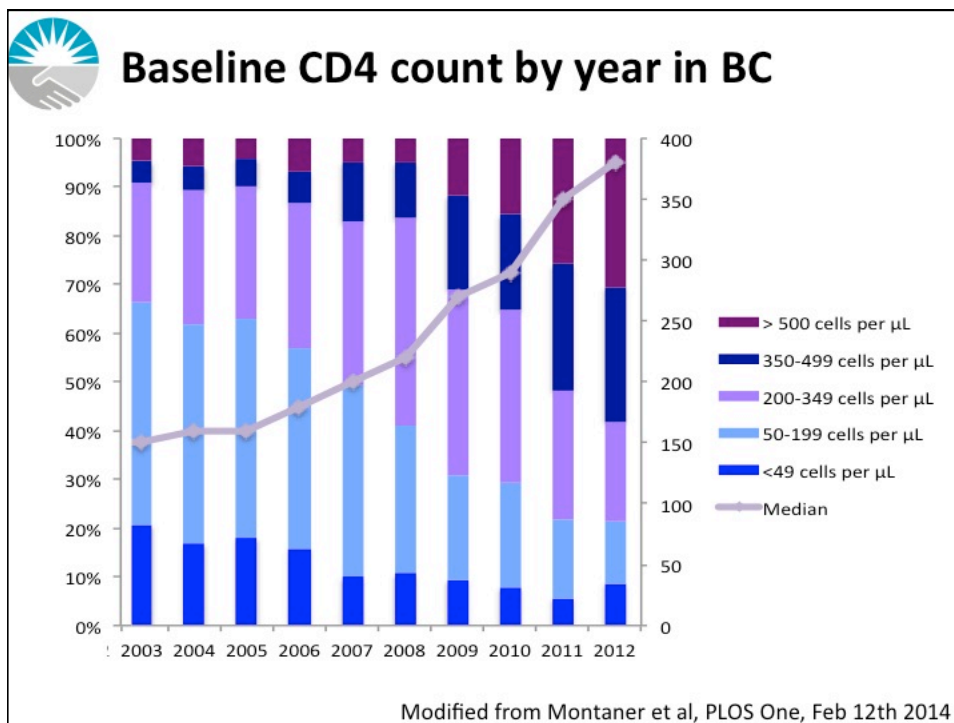
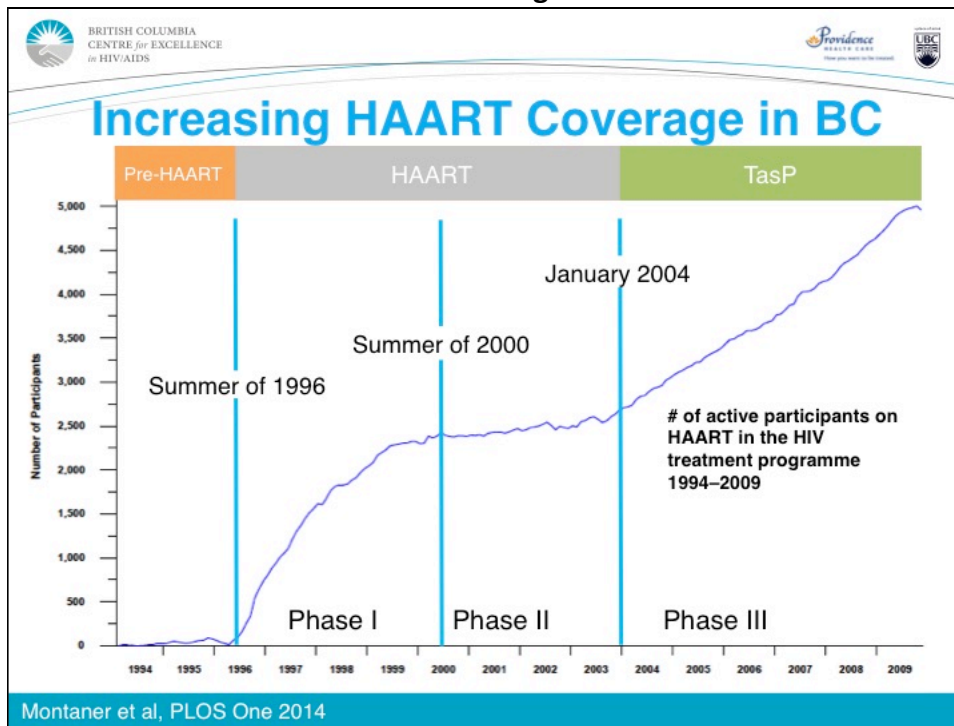
The case for expanding access to highly active antiretroviral therapy to curb the growth of the HIV epidemic

Julio S G Montaner, Robert Hogg, Evan Wood, Thomas Kerr, Mark Tyndall, Adrian R Levy, P Richard Harrigan

Lancet 2006; 368: 531-36

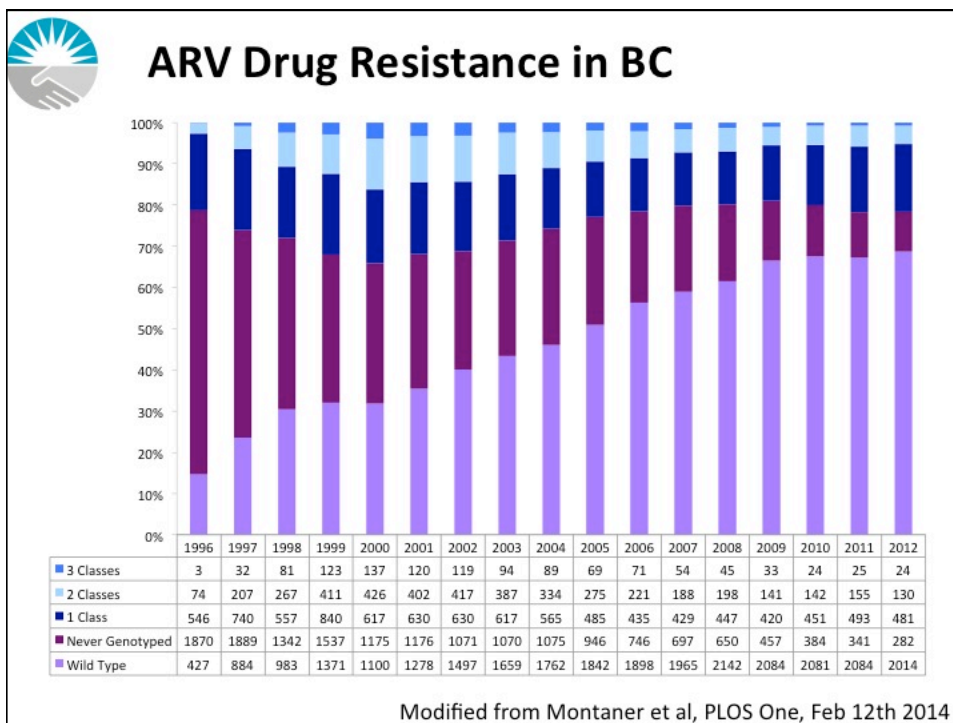
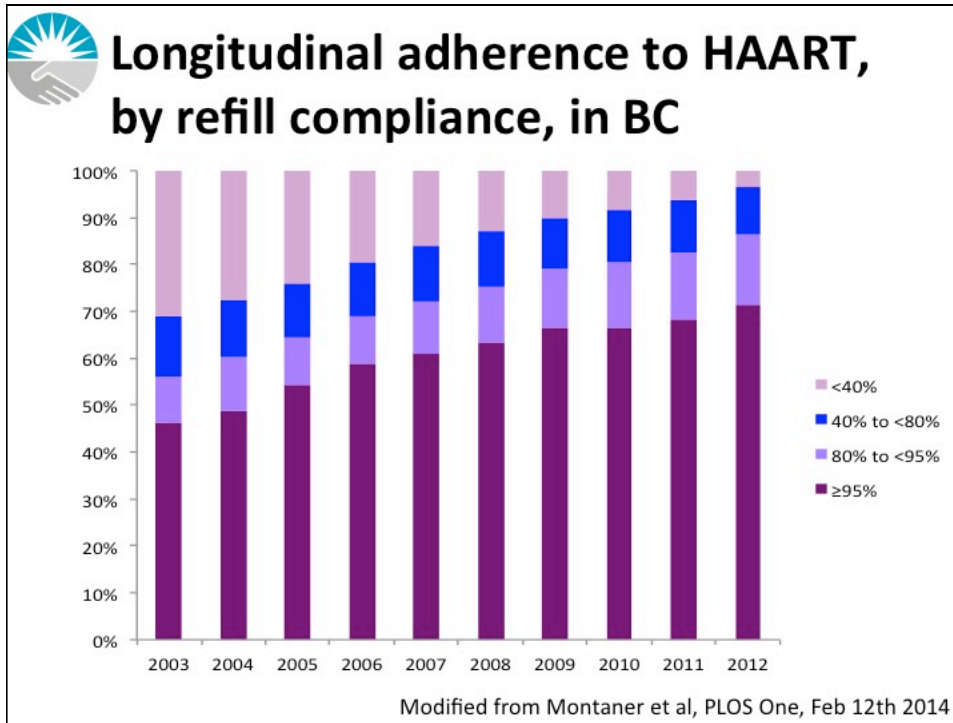
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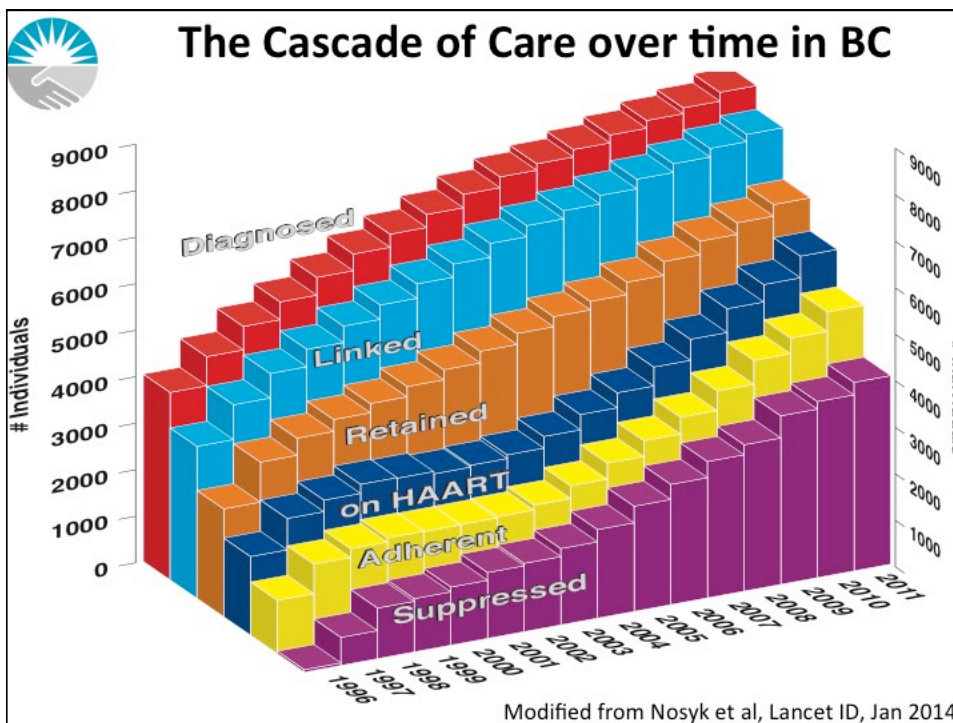
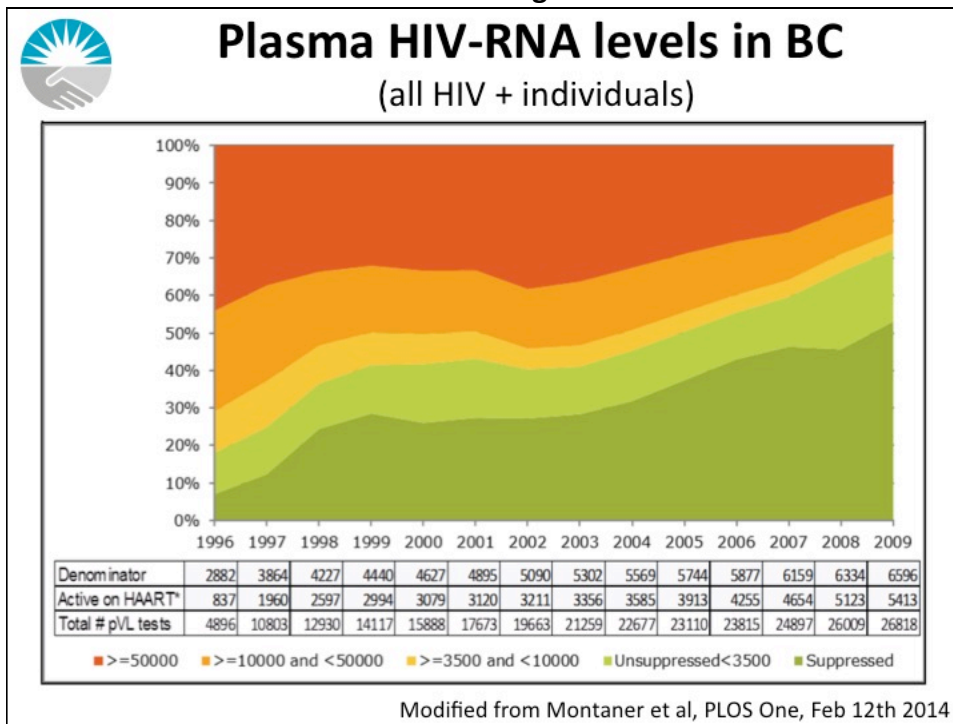


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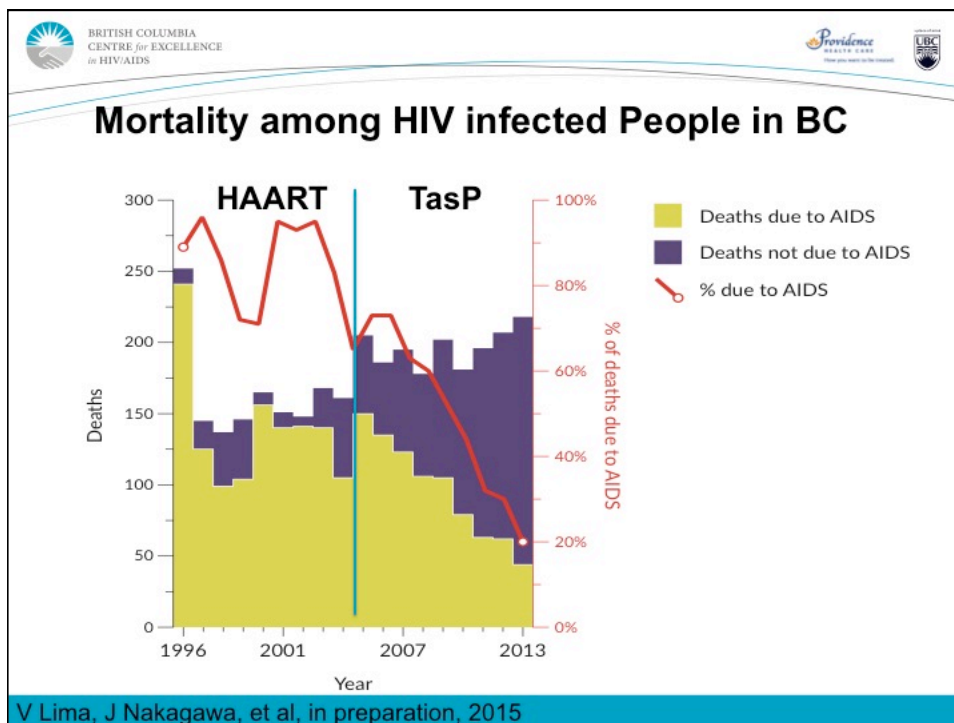
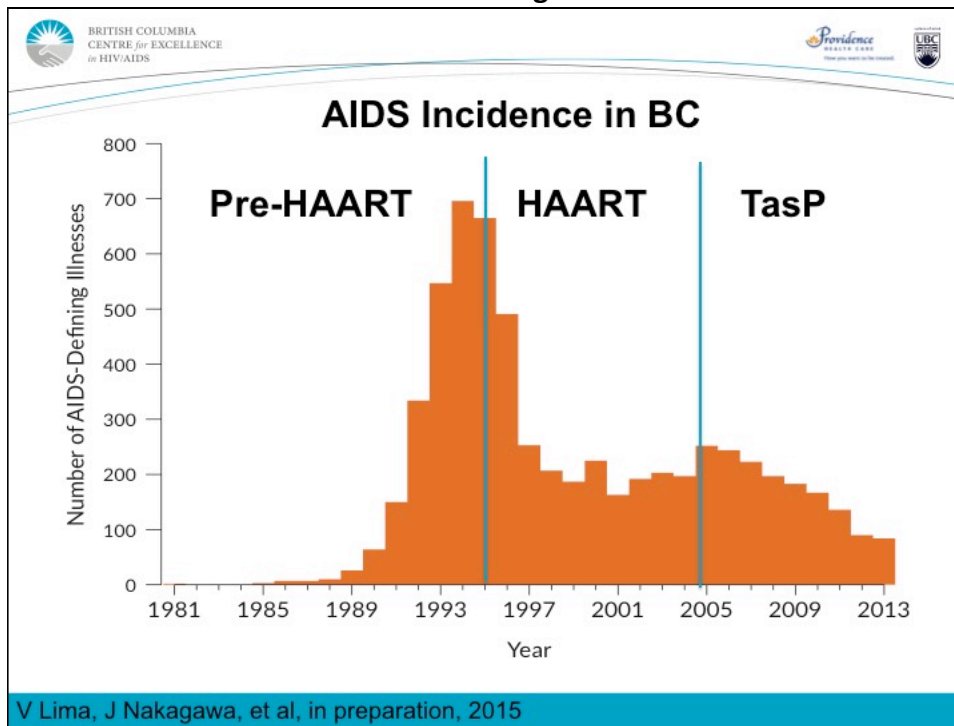
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Mortality & Life Expectancy in BC

	Mortality rate (95%CI) per 1000 person-years	Life expectancy at age 20 years (standard error)
2003 - 2005	33.76 (29.41 – 38.57)	28.82 (1.82)
2009 - 2012	18.22 (14.57 – 22.50)	49.81 (1.69)

V Lima, J Nakagawa, et al, in preparation, 2015



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BRITISH COLUMBIA CENTRE for EXCELLENCE in HIV/AIDS

Providence HEALTH CARE

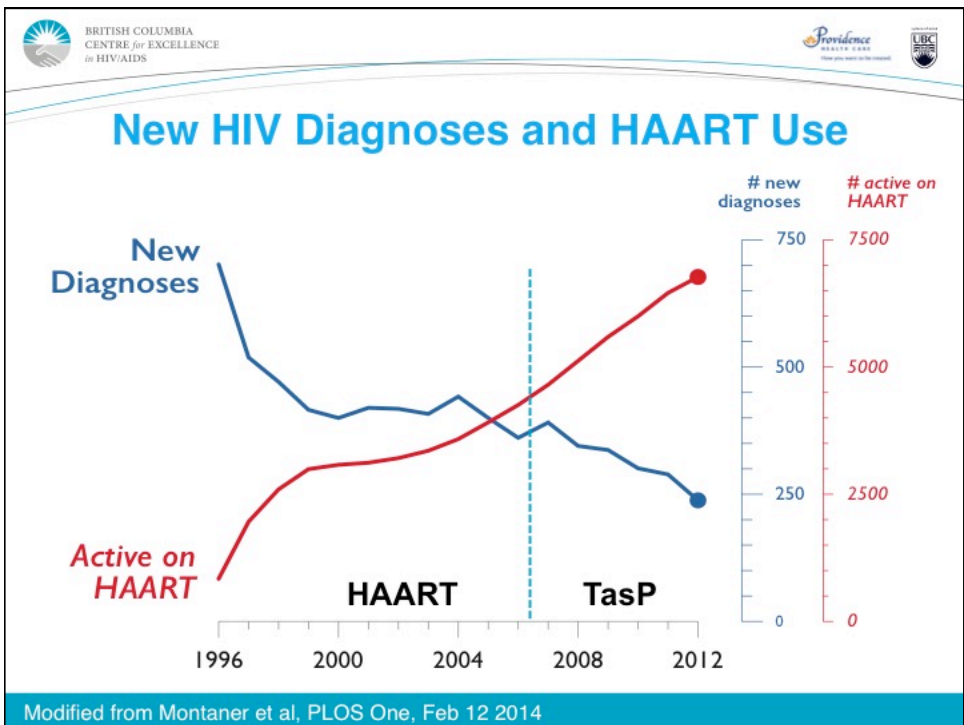
UBC

Mother to Child Transmission (MTCT)

ART is virtually **100% effective** at preventing MTCT

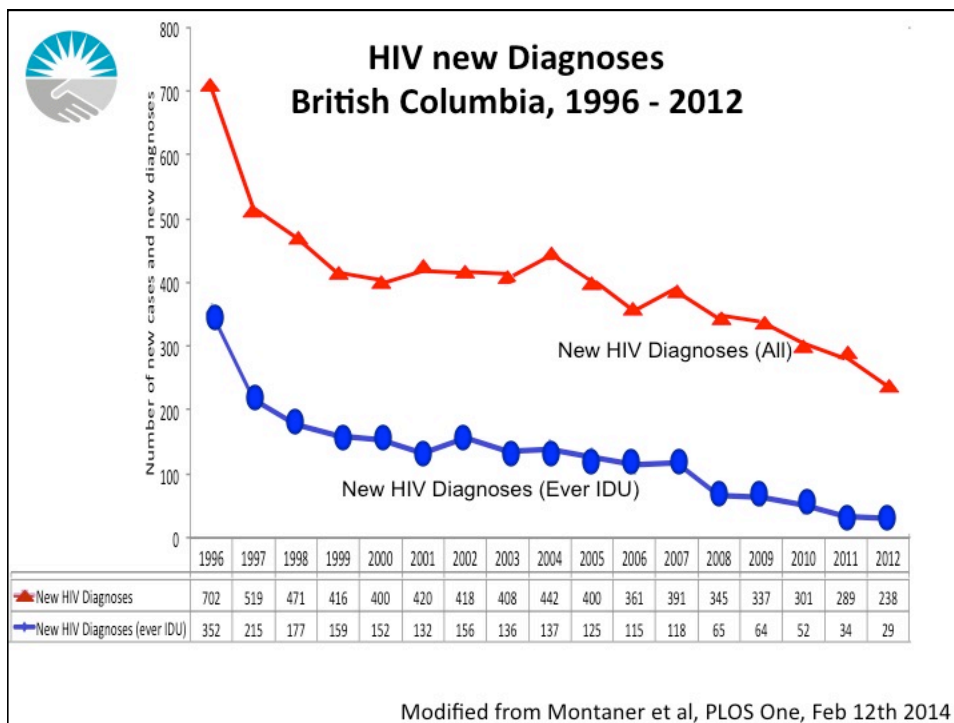
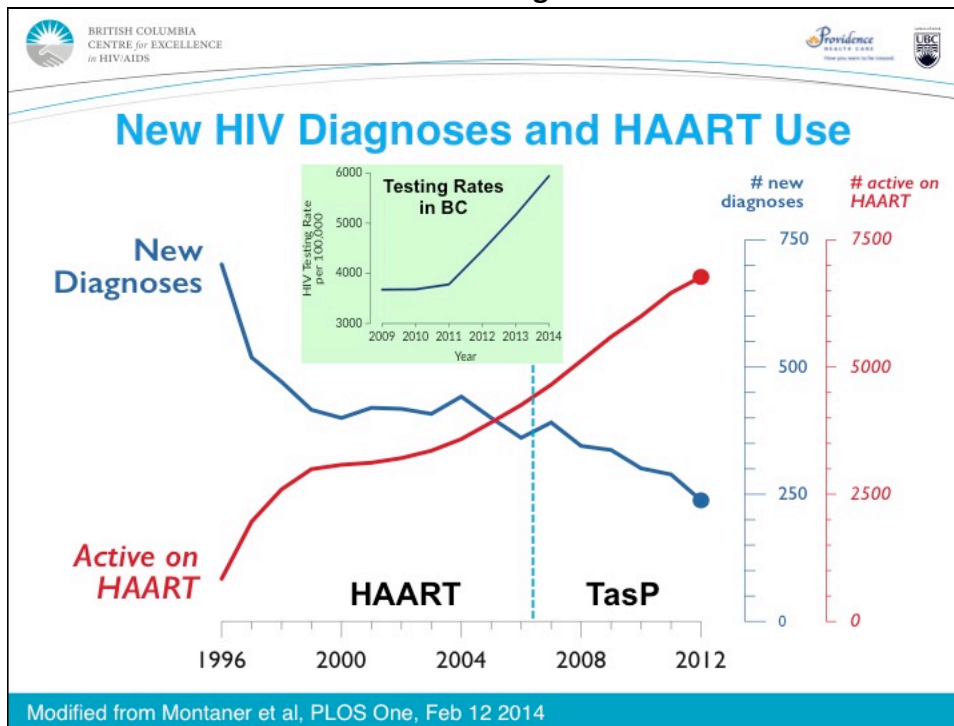
Over the last 15 years, with the widespread use of ART, MTCT has been virtually eliminated in BC

- 2 HIV+ newborns in 300 HIV+ pregnancies
- Both cases failed to use ART (**diagnosed at labour**)
- Expected with no HAART > 30 cases



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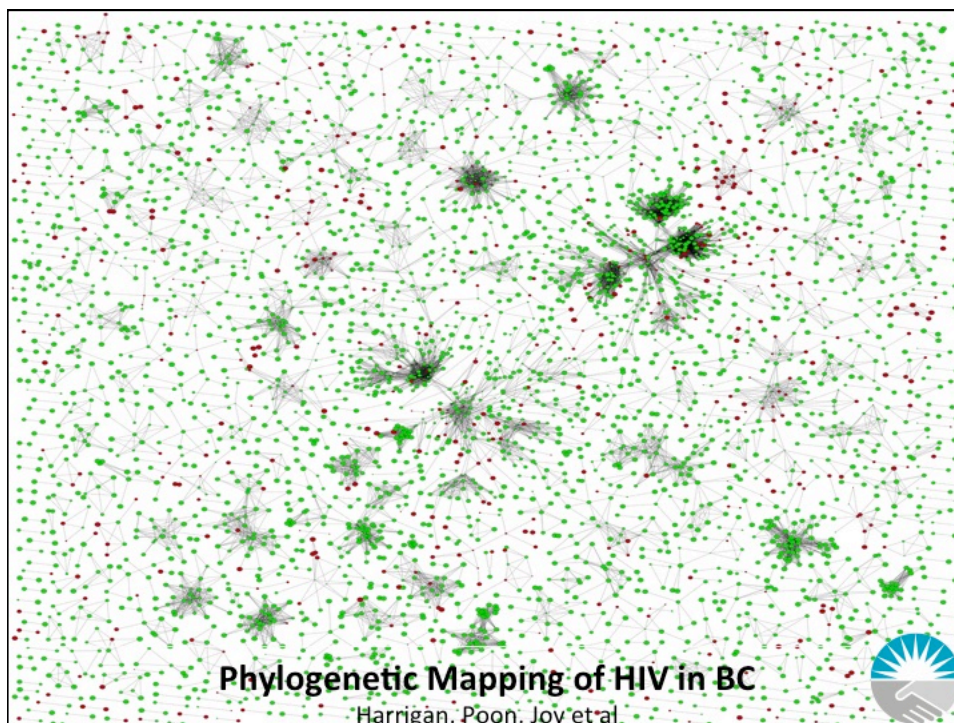
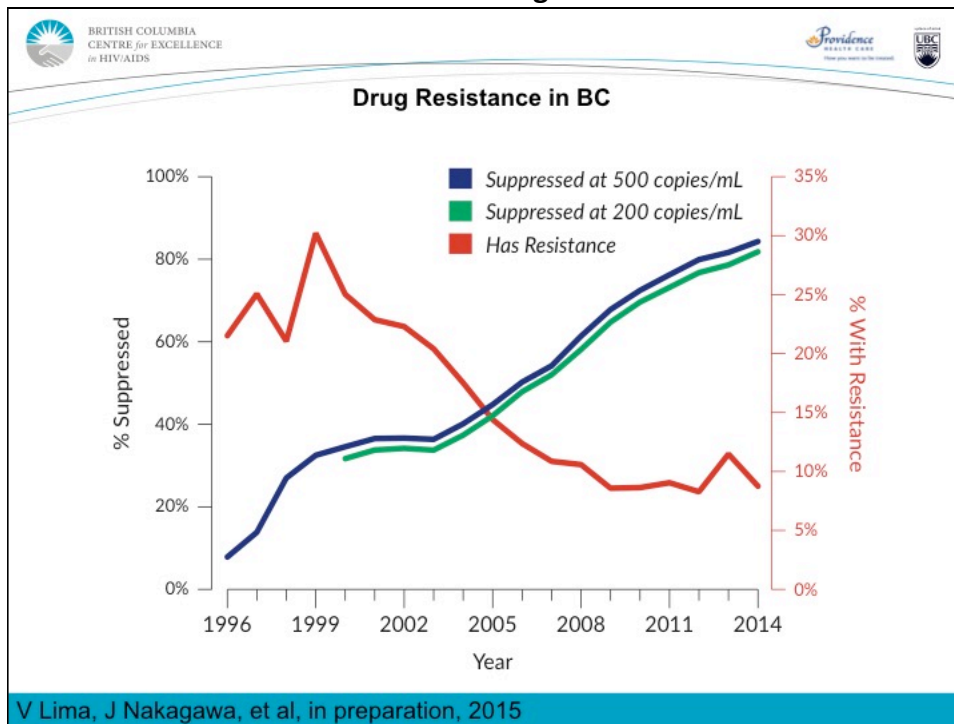
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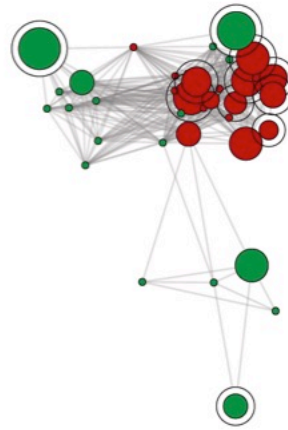


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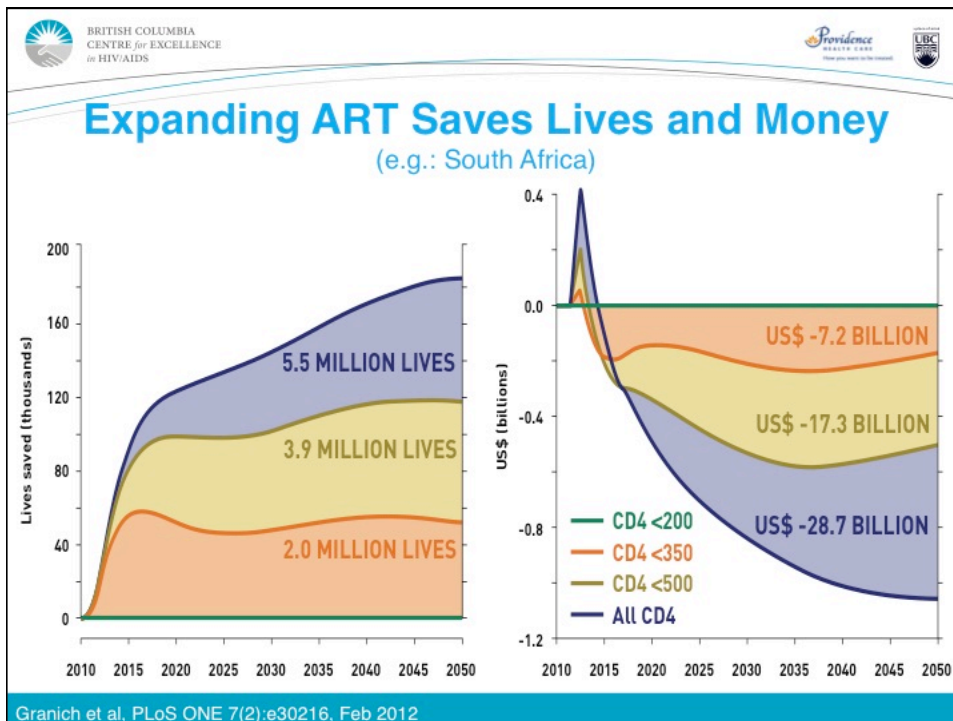
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An 'actionable' cluster

- ▶ Detected growth of a cluster by 11 new cases in 3 months.
- ▶ 8 new cases carried transmitted HIV drug resistance* (TDR).
- ▶ Prompted a formal outbreak investigation by provincial health agency.

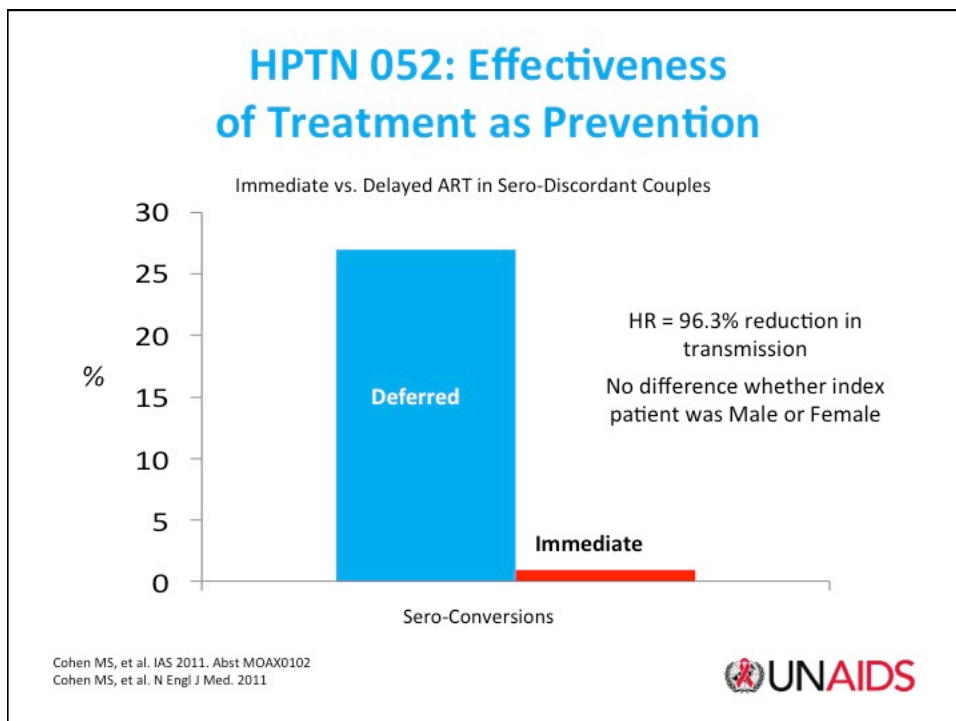


*K103N, NNRTI resistance



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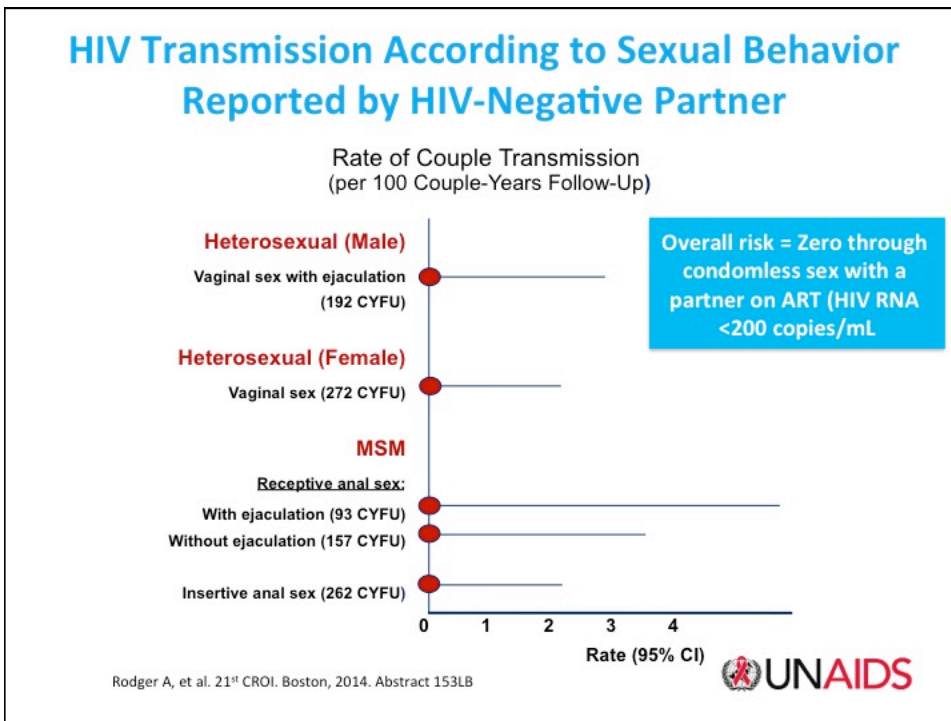
BRITISH COLUMBIA CENTRE for EXCELLENCE in HIV/AIDS

Providence HEALTH CARE UBC

HPTN 052: SUSTAINABILITY OF TasP

- **No linked HIV transmissions when index participant stably suppressed on ART**
- **8 linked HIV infections diagnosed after seropositive pt started ART**
 - 4 infections likely occurred before, or soon after, ART initiation, and 4 infections occurred after ART failure in seropositive pt
- **Unlinked partner infection rates similar between study arms**

Cohen MS, et al. IAS 2015. Abstract MOAC0101LB.



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BRITISH COLUMBIA CENTRE for EXCELLENCE in HIV/AIDS | Providence HEALTH CARE | UBC

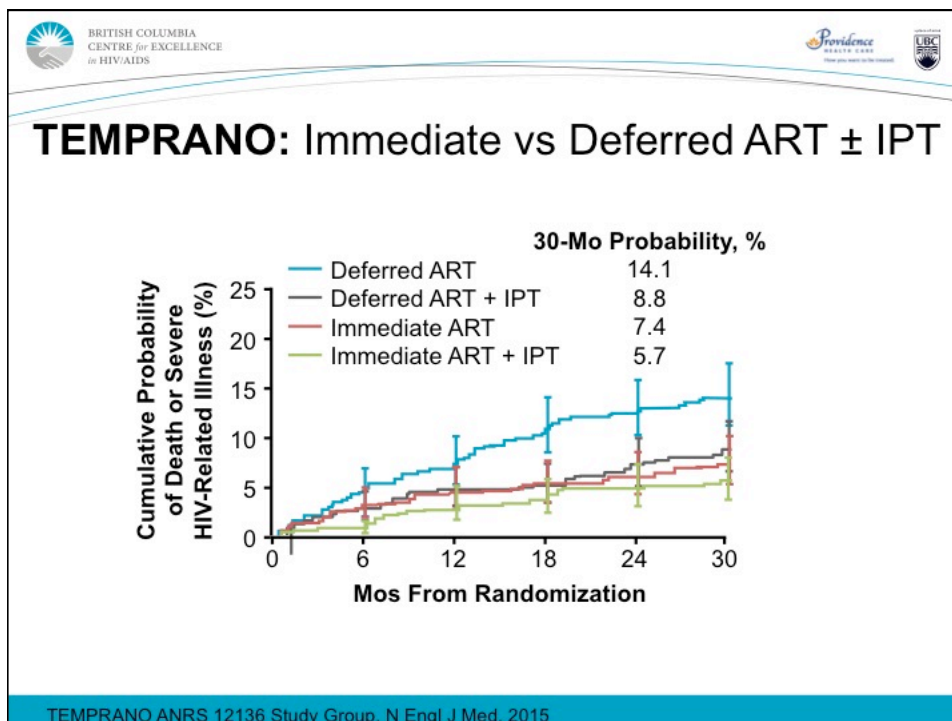
A Trial of Early Antiretrovirals and Isoniazid Preventive Therapy in Africa

The TEMPRANO ANRS 12136 Study Group*

Baseline Characteristics

CD4+ count — cells/mm ³				
Median	460	459	467	466
Interquartile range	359–560	364–575	369–584	394–572
CD4+ count stratum — no. (%)				
≥500 cells/mm ³	201 (39)	212 (41)	222 (43)	214 (41)
350–499 cells/mm ³	189 (37)	193 (38)	188 (37)	211 (41)
<350 cells/mm ³	121 (24)	107 (21)	105 (20)	93 (18)
Plasma HIV-1 RNA — log ₁₀ copies/ml				
Median	4.6	4.6	4.7	4.7
Interquartile range	4.0–5.2	4.0–5.3	4.0–5.3	4.0–5.3

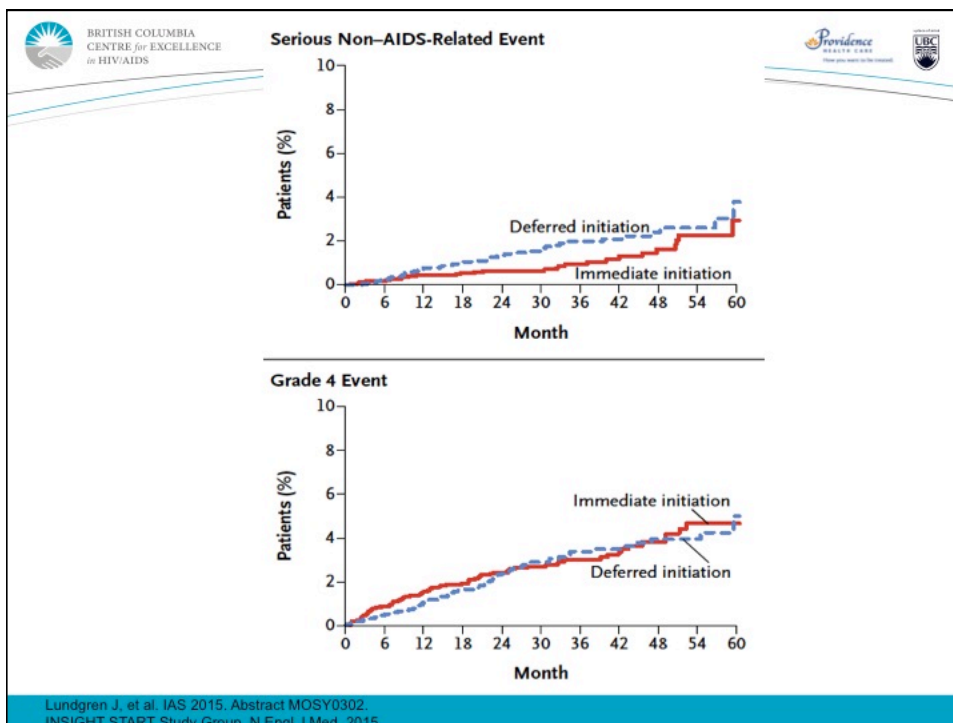
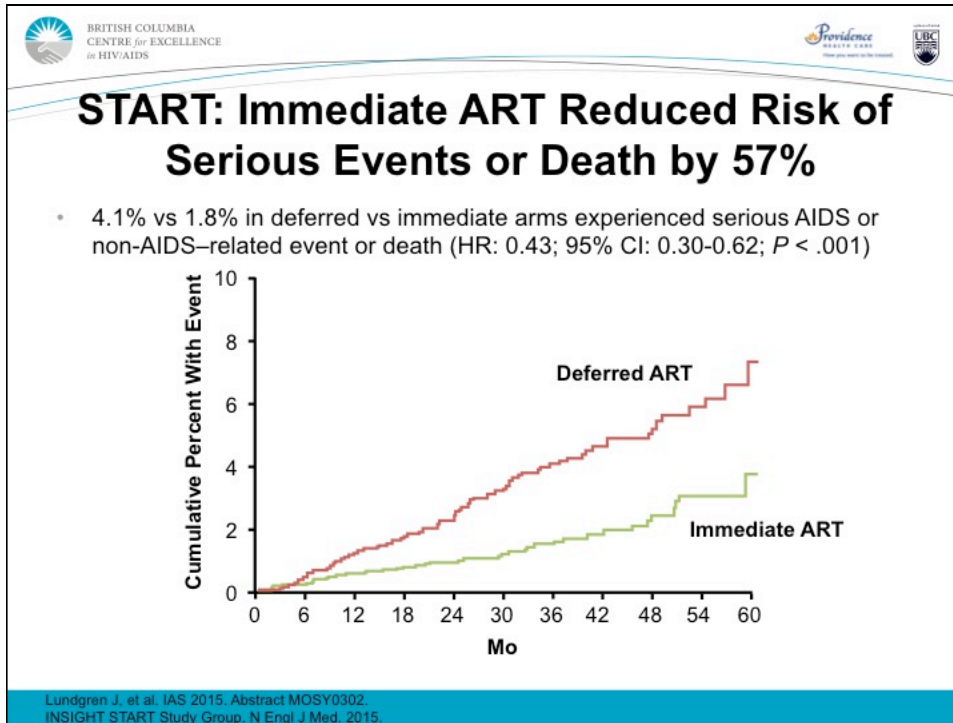
TEMPRANO ANRS 12136 Study Group, N Engl J Med. 2015



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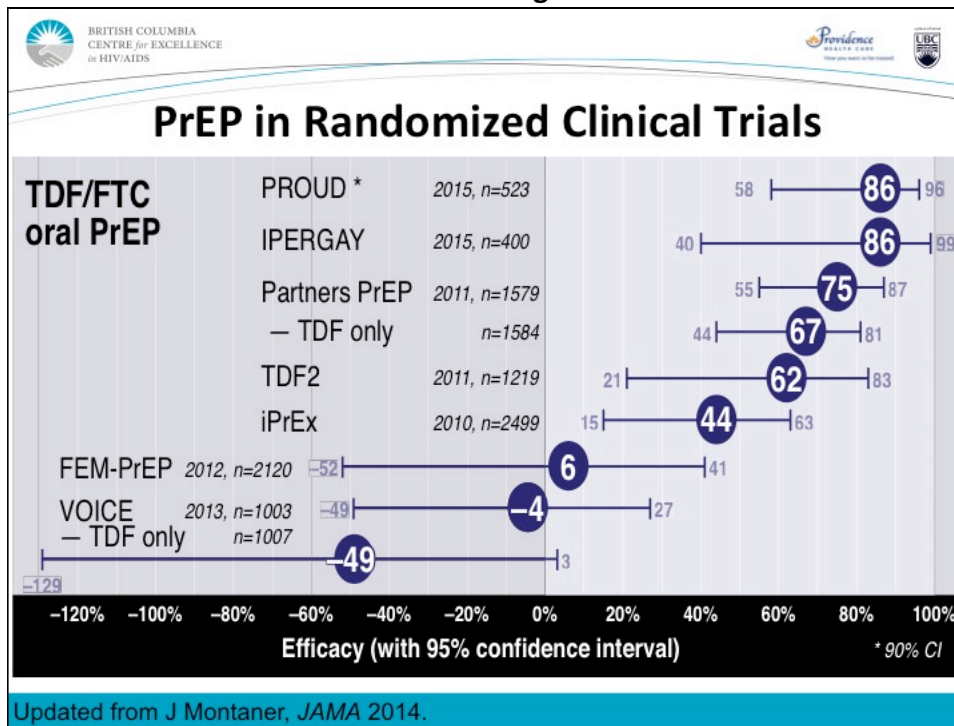
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HIV TREATMENT



New Directions in the 2015 Consolidated ARV Guidelines Update




Meg Doherty, MD, PhD, MPH
 19 July 2015
 WHO Satellite
 Vancouver – IAS 2015



World Health Organization

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World Health Organization

GUIDELINES

GUIDELINE ON WHEN TO START ANTIRETROVIRAL THERAPY AND ON PRE-EXPOSURE PROPHYLAXIS FOR HIV

SEPTEMBER 2015

antiretroviral therapy (ART) should be initiated in everyone living with HIV at any CD4 cell count. Second, the use of daily oral pre-exposure prophylaxis (PrEP) is recommended as a prevention choice for people at substantial risk of HIV infection



Julio Montaner appointed
UNAIDS Special Advisor on HIV Therapeutics



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a place of mind

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HEALTH CARE
How you want to be treated.

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AMBITIOUS TREATMENT TARGET

THE FINAL CHAPTER OF THE AIDS EPIDEMIC

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Ambitious Treatment Target by 2020

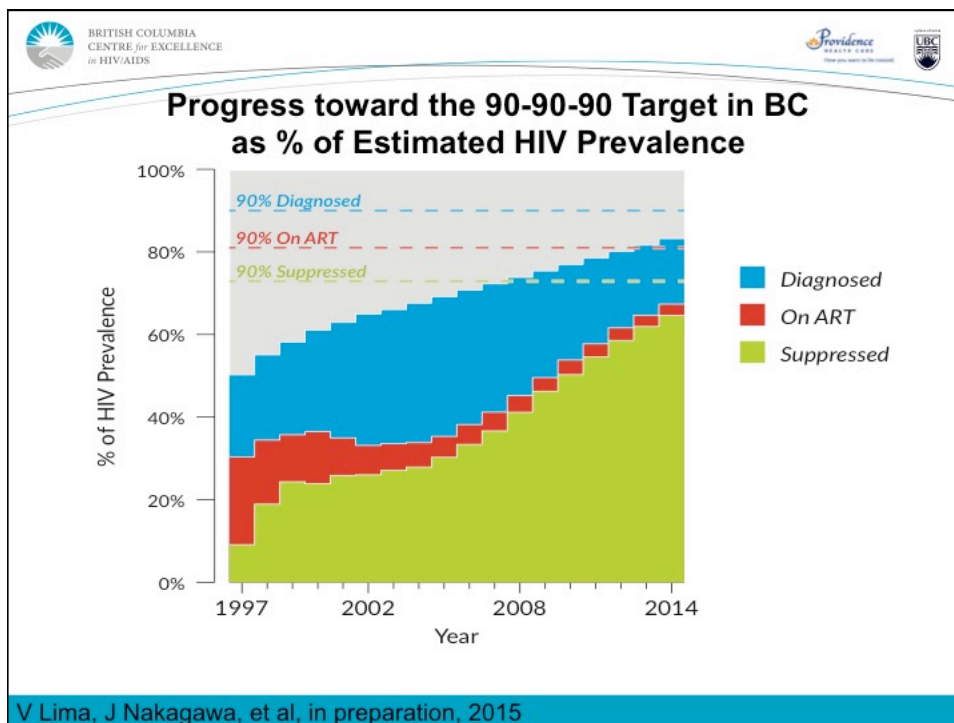
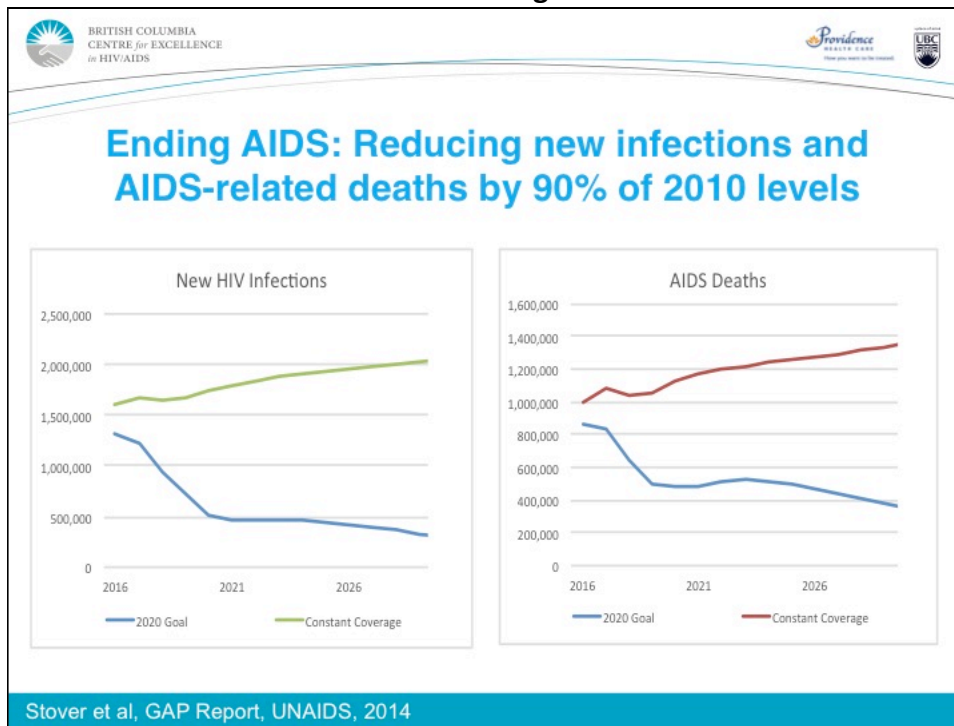
90%	90%	90%
diagnosed	on treatment	virally suppressed

THE FINAL CHAPTER OF THE AIDS EPIDEMIC

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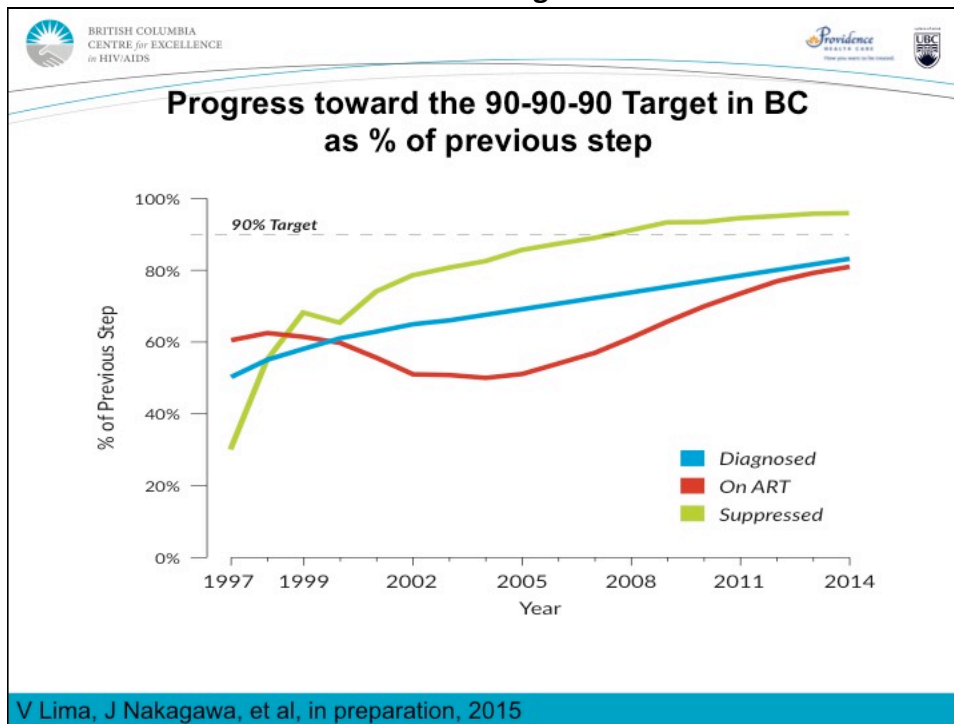
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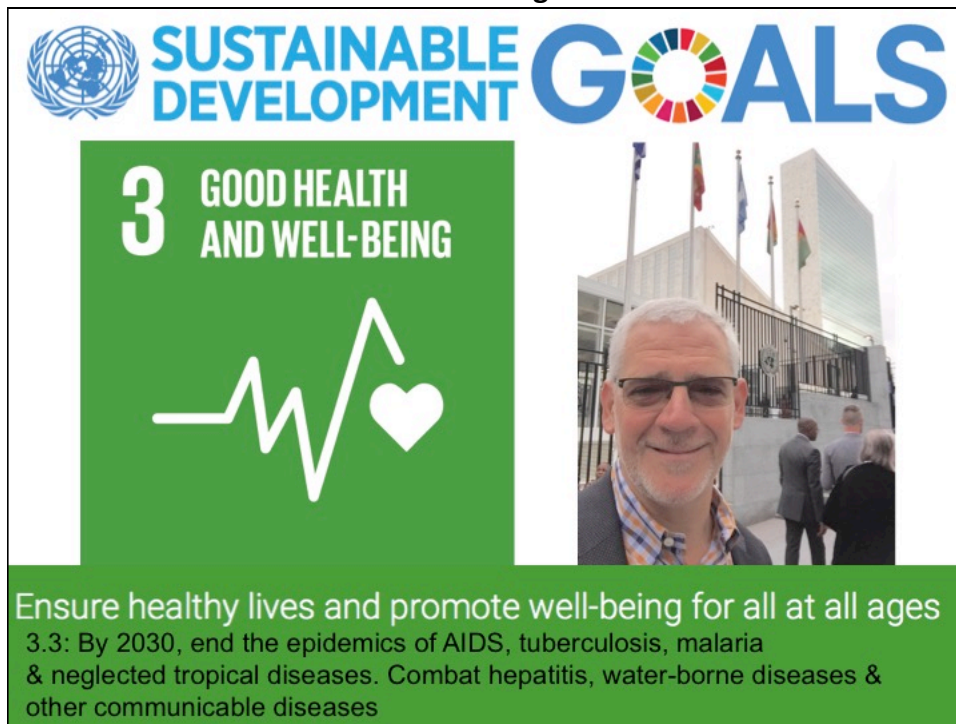


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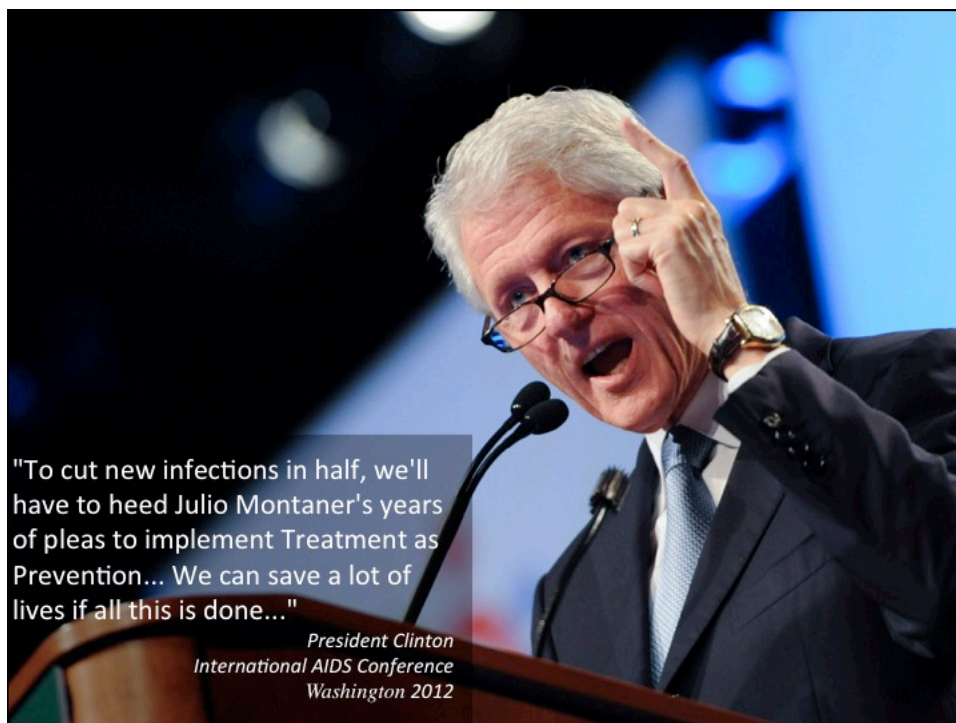


The graphic features the United Nations logo and the text "SUSTAINABLE DEVELOPMENT GOALS" at the top. Below this, a green box contains the number "3" and the text "GOOD HEALTH AND WELL-BEING" next to a white icon of a heartbeat line ending in a heart. To the right is a photograph of Prof. Julio Montaner in front of the UN building. At the bottom, a green banner contains the goal's description and target 3.3.

3 GOOD HEALTH AND WELL-BEING

Ensure healthy lives and promote well-being for all at all ages

3.3: By 2030, end the epidemics of AIDS, tuberculosis, malaria & neglected tropical diseases. Combat hepatitis, water-borne diseases & other communicable diseases



A photograph of President Bill Clinton speaking at a podium. He is wearing a dark suit, a light blue tie, and glasses. He has his right hand raised to his forehead. A text box is overlaid on the bottom left of the image.

"To cut new infections in half, we'll have to heed Julio Montaner's years of pleas to implement Treatment as Prevention... We can save a lot of lives if all this is done..."

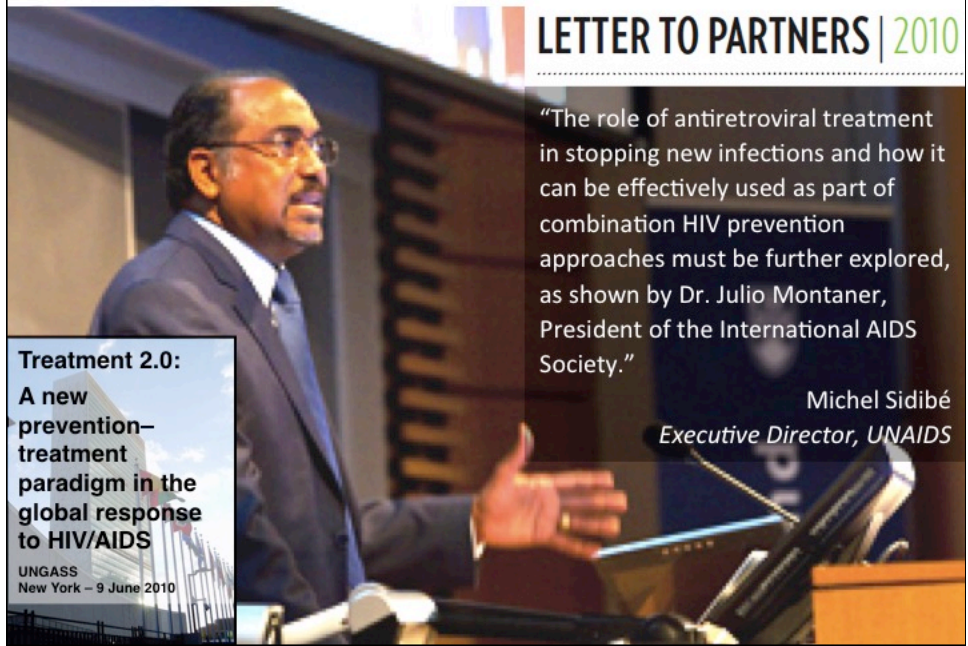
*President Clinton
International AIDS Conference
Washington 2012*

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ZERO NEW INFECTIONS—TREATMENT FOR EVERYONE WHO NEEDS IT

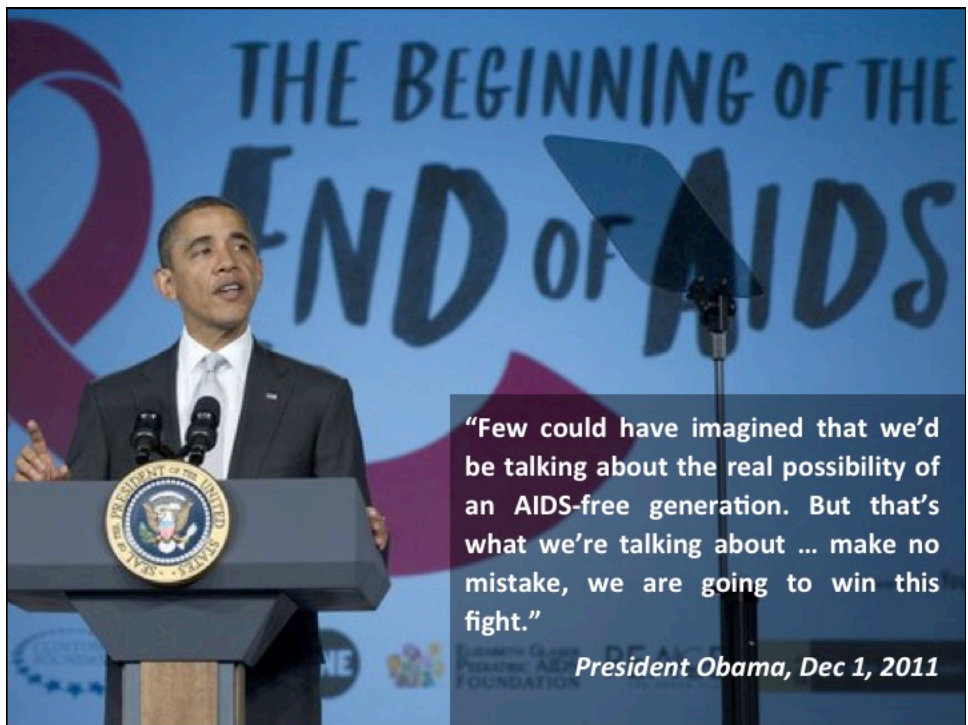
LETTER TO PARTNERS | 2010



“The role of antiretroviral treatment in stopping new infections and how it can be effectively used as part of combination HIV prevention approaches must be further explored, as shown by Dr. Julio Montaner, President of the International AIDS Society.”

Michel Sidibé
Executive Director, UNAIDS

**Treatment 2.0:
A new prevention-treatment paradigm in the global response to HIV/AIDS**
UNGASS
New York – 9 June 2010



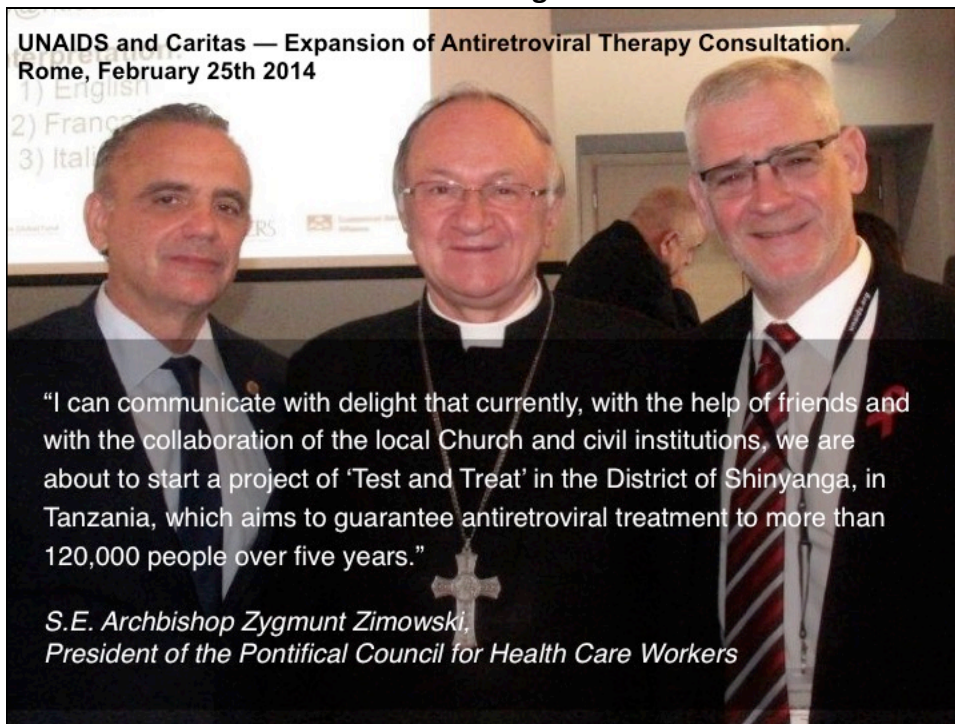
**THE BEGINNING OF THE
END OF AIDS**

“Few could have imagined that we’d be talking about the real possibility of an AIDS-free generation. But that’s what we’re talking about ... make no mistake, we are going to win this fight.”

President Obama, Dec 1, 2011

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SECRETARIAT OF STATE

No. 64.781 From the Vatican, 5 June 2015

Dear Dr Montaner,



His Holiness Pope Francis thanks you for informing him of the forthcoming International Conference on HIV/AIDS in Vancouver. He sends prayerful greetings to all taking part, and expresses his esteem for their work and the dedication it requires.

His Holiness is grateful for the many advances made in the prevention and treatment of HIV/AIDS, particularly through Highly Active Antiretroviral Therapy, and the promotion of "Treatment through Prevention". The lives that have been saved, both through the reduction in the number of new infections and the better health and longer lifespan of those already diagnosed, gives witness to the possibilities for beneficial outcomes when all sectors of society unite in common purpose. He hopes that further efforts may be made to make the fruits of research and medicine available to the world's poorest people, especially orphaned children, upon whom this scourge often places the heaviest burden. He likewise prays that all advances in pharmacology, treatment and research will be matched by a firm commitment to promote the integral development of each person as a beloved child of God. Upon all of you, the Holy Father invokes abundant divine blessings of wisdom and peace.

With every good wish, I am

Yours sincerely,

Pietro Lavino Pardini
Secretary of State



BRITISH COLUMBIA
CENTRE for EXCELLENCE
in HIV/AIDS



Liberal Party of Canada
350 Albert, Suite 920
Ottawa, Ontario K1P 6M8

Parti Libéral du Canada
350 rue Albert, Suite 920
Ottawa (Ontario) K1P 6M8



October 8, 2015

Dr. Julio S.G. Montaner
Professor and Head, UBC-Division of AIDS
UBC and St. Paul's Hospital Foundation Chair in AIDS Research
Faculty of Medicine, University of British Columbia;
Director, BC Centre for Excellence in HIV/AIDS, St. Paul's Hospital, Providence Healthcare;
UNAIDS Special Advisor on HIV Therapeutics;
Past-President, International AIDS Society.

Dear Dr. Montaner,

Thank you for taking the time to send me a copy of your letter to the Prime Minister regarding the British Columbia Centre for Excellence in HIV/AIDS' 90-90-90 Target to end AIDS by 2030. It was an absolute pleasure to sit down with you earlier this year to discuss how to combat this disease, and I sincerely appreciate your following up with me.

I, and the Liberal Party of Canada, are committed to achieving a future that is free of HIV and AIDS, and thank all the doctors and researchers who are taking the lead in the effort to find a cure against this deadly pandemic. Unfortunately, since taking office in 2006, the Harper Conservatives have been slow to either embrace or accept any scientific innovation, and have failed to consult with leading experts, such as yourself. Their actions have deprived many Canadians of universal access to proper treatment, as well as the care and support they need.

Should the Liberal Party of Canada form the next government, we are dedicated to taking aggressive action to combat both the disease, as well as the unfortunate stigma that continues to surround it. Our party supports the adoption of the 90-90-90 target, as embraced by both the United Nations and Ban Ki Moon. Canada must do more in the global fight against HIV/AIDS, and work to alleviate the burden of the disease on people around the world.

Dr. Montaner, thank you once again for taking the time to write to me and following up on this important issue. I wish you all the best in your continued efforts to bring about much-needed positive change and awareness for people living with HIV/AIDS.

Sincerely,

Justin Trudeau

Justin P.J. Trudeau
Leader of the Liberal Party of Canada

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December 10 **RIISING TO THE CHALLENGE OF MULTIDRUG-RESISTANT GRAM-NEGATIVE RODS (CRE & FRIENDS)**
Dr. Jonathan Otter, King's College, London

December 17 (*FREE Teleclass*)
EXAMINING THE "UNMENTIONABLES" = SANITATION AND THE GLOBAL AGENDA
Rose George, Author & Journalist

www.webbertraining.com/schedulep1.php



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