

HIV care cascade

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Sputum positive TB



- Diagnose early
- Start treatment as soon as possible
- Ensure compliance to treatment



HPTN 052



- Can ART prevent prevent sexual transmission of HIV among HIV serodiscordant couples?
- Randomised multi centre trial 1763 HIV serodiscordant couples
- HIV positive partner started on ART immediately ('early' arm of the study) or later ('delayed' arm)
- In 2011 96% reduction of HIV transmission in the early arm
- After that all were offered ART
- In 2015 after 5 years on trial 93% reduction of HIV transmission with ART



HPTN 052

- Only 8 cases of HIV transmission after starting ART
- 4/8 HIV transmission occurred soon after ART initiation before HIV suppression
- 4/8 HIV transmission occurred when the HIV infected partner had detectable HIV viral load – due to treatment failure

HIV viral load suppressed = non infective





- 1166 serodicordant couples from 14 European countries
- Undetectable viral load, not always using condoms
- How long on ART?
 - 4.8 years (IQR: 1.9 to 11.4) for gay men.
 - 7.5 years (IQR: 3.3 to 14.2) for straight women.
 - 10.6 years for straight men (IQR: 4.3 to 15.6).
- How long sex without condoms
 - 1.5 years for gay couples (IQR: 0.5 to 3.5).
 - 2.8 years for straight couples where the woman was HIV+ (IQR: 0.6 to 7.5).
 - 3.6 years (IQR: 0.7 to 11.4) for straight couples where the man was HIV+

After 58,000 sexual acts without condoms



transmissions

Rodger AJ et al., JAMA. 2016;316(2):171-181.



Based on experience in British Columbia, Canada

"for every 1% increase in the number of individuals suppressed on HAART, the estimated HIV incidence also decreased by 1%"

Julio S.G. Montaner et al., PLoS ONE 2014; 9(2): e87872

Changing trend of HIV transmission mode, Malaysia 2000-2015

HIV Care, USA 2012

Share of all people with HIV at this stage

The steps involved in achieving virological suppression

HIV care cascade

"Seek, Test, Treat & Retain"

Australia 2014

Snapshot of HIV infection – Malaysia - 2015

Data courtesy of Dr Anita Suleiman

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Treatment cascade - Malaysia 2016

Data courtesy of Dr Anita Suleiman

HIV care cascade

"Seek, Test, Treat & Retain"

Why come so late?

- 111 consecutive patients presenting for the first time with Cd4 count < 200
- Median Cd4 count 32 (IQR 12, 85)

Late entry into care: HIV first positive to date of first presentation - > 6 months

Late Diagnosis: HIV first positive to date of first presentation - < 6 months

REASONS FOR LATE PRESENTATION WITH ADVANCED HUMAN IMMUNODEFIENCY VIRUS (HIV): HOSPITAL SUNGAI BULOH EXPERIENCE Late Study)

Abdullah Hashim SH, Kumar S. Lee C. Infectious Diseases Unit, Hospital Sungai Buloh

O HOSPITAL

Why come so late?

Mode of transmission	
MSM	44%
Heterosexuals	24%
IDU	17%

Need to promote more testing among key populatons

Doctors have to test more, especially among those at highest risk of getting HIV

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"Seek, Test, Treat & Retain"

Recommendation 1: When to start ART among people living with HIV			
Target population	Specific recommendation	Strength of the recommendation	Quality of the evidence
Adultsª (>19 years)	ART should be initiated in all adults living with HIV at any CD4 cell count	Strong	Moderate NEW
	As a priority, ART should be initiated in all adults with severe or advanced HIV clinical disease (WHO clinical stage 3 or 4) and individuals with CD4 count ≤350 cells/mm ³	Strong	Moderate
Pregnant and breastfeeding women	ART should be initiated in all pregnant and breastfeeding women living with HIV at any CD4 cell count and continued lifelong	Strong	Moderate
			Name of Street o

Draft MASHM guidelines 2017 available at www.mashm.net.my

HIV care cascade

"Seek, Test, Treat & Retain"

"Seek, Test, Treat & Retain"

Intention to treat analysis (missing = failure)

*Transfer outs excluded from analysis

On treatment analysis

*all missing values excluded from analysis

Structural barriers

<u>Structural barriers</u> sten	n from material conditions of life	e in resource-limited settings
Unmet needs	Conflicting demands	Prison/incarceration
Transportation costs	Work responsibilities	
No money	Child care commitments	
Too far	Family accident	
	Pregnancy, childbirth	

Treatment as Prevention

Engagement as Prevention

How to Stay Connected

- Keep all of your scheduled clinic appointments.
- Work as a team with your health care providers.
- Talk openly and honestly with your health care team.
- Ask questions that are important to you.

Why Is It Important to Keep All of Your Clinic Appointments?

Your Health Depends on It!

At your appointments

- We can check your health and make changes to your treatment plan if needed.
- We can give you the best medical care.
- · You can take control of your health.

In one large study, people with HIV who attended all of their clinic appointments lived longer. Source: Clinical Infectious Diseases, 2007.

Remember—it is important to come to all of your clinic appointments whether you feel sick or feel well.

Ways to Remember Your Clinic Appointments

- Write all of your appointments in a calendar.
- Put reminders or alerts in your cell phone.
- Put your reminder card in a place where you will see it often.
- Make sure we have your correct telephone number and address.
- Let us know right away if your telephone number or address changes.

If something comes up and you can't keep a clinic appointment, please call us at least 2 days in advance. It is important to reschedule if you miss an appointment.

Come to All of Your Clinic Appointments

Take Control of Your Health

Research shows that keeping your regular clinic appointments can improve your health and help you live longer.

Gardner, Clin Infect Dis. 2012 Oct;55(8):1124-34

Data courtesy of Dr Anita Suleiman

A Toolkit for Health Facilities Differentiated Care For HIV and Tuberculosis

November 2015 Geneva, Switzerland

The levers of tiered care

Task shifting

congratulations/

You are now a member of **ID Wellness Clinic**

What is ID Wellness Clinic ?

Clinic? Cardiovascular disease screening & prevention

> Optimize sugar & cholesterol level

Cancer screening

Healthy lifestyle promotion

"Seek, Test, Treat & Retain"

Thank you