

Thank you for arranging this virtual workshop - it will be very informal - lots of time for questions and discussions.

#### **Overview**

- Introductions
- A strategy for U=U in Nepal
- First questions
- Example leaflet and poster form UK
- Studies that prove U=U is a FACT
- Other community responses

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U=U Nepal Trans and MSM group, May 2021



Having a stragey for the next year might include some of these things.



U=U Nepal Trans and MSM group, May 2021

Here is a leaflet we did in the UK that was translated for other countries



i-Base put resources online and printer leaflets and post cards.



Here is the i-Bse website page

Talk is from a perspective of a community advocate for the last 20+ years.

As an introduction I will say a little about my organization and recent work.

I will briefly outline the evidence that convinced me to support U=U.

And I will talk about the different community and professional ways that U=U has been adopted in the UK

# **First questions**

- What is U=U?
- What does U=U involve?
- How can someone not be infectious?
- Does U=U work for everyone?
- Does this work with all HIV drugs?
- Does U=U work for all types of sex?
- Does this mean I can stop using condoms?

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The leaflet started with these questions



i-Base also produced posters for clinics that cold be adapted to you doctors and HIV positive people from each clinic.



HIV Scotland had a similar campaign in Scotland to raise awareness in gay bars and at Gay Pride.



THT is the largest and best know HIV-based charity - now focused on sexual health.

The first THT "cant pass it on' campaign was launched in Summer 2017 for Pride in London and used on social media – and continued each year in 2018 and 2019



This is just because I like the photo and that U=U switching switch bus routes in Brighton

One side of the bus says :Towards zero HIV" and the other "HIV isn't scarey anymore".

## **More questions**

- My partner is HIV+ and wants to use condoms
- My partner is HIV– and wants to use condoms
- Is U=U now widely believed?
- Do STIs affect the risk?
- Will my doctor know about this?
- How for viral load take to be undetectable?
- What if I forget my meds?

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Here are a other set of questions that are answered in the leaflet



U=U was a difficult fthing for many people to accept and believe.

## **UK Combination prevention**

3,500

3,000

• Significant HIV drop for last 3 years (even though more testing and less condoms).

- · Regular HIV testing, more often.
- · Early ART (within a week).
- Nice clinics, free PrEP



All new HIV diago Gay and bisexu

and bisexual me

· Lock down/COVID: stopped most monitoring, PrEP continued etc

Public Health England. https://www.gov.uk/government/publications/hiv-in-the-united-kingdom

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It is also part of combination therapy that in the end reduced the numers of people being diagnosed every year.

94,000 are diagnosed (92%). Of these 98% are on ART and 97% are undetectable.

New diagnoses significantly fell over the last two years: combination of more frequent testing, early and universal ART, better ART and access to PrEP.

More clinics routinely start same-day ART – within a few days. Confirmatory HIV testing is not needed because false positive is so rare and viral load and resistance test results with be back within 1-2 weeks. Reduces loss to care.

Universal ART based on results from START study.

Late diagnosis is still a problem.

#### **Evidence and proof**

http://i-base.info/htb/32308

Different types of studies all showed U=U.

Expert opinion. Observational studies – just watching a group. Evidence review – of many different studies. Randomised studies (but still with condoms used) Large observational study without condoms and with diaries to calculate risk.

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Different types of studies all supported the evidence that U=U.

They all showed the same result - that HIV is not transmitted sexually when viral load is undetectable



A summary of the evidence is also probably useful as the plausibility of ART reduced the risk of transmission has been known for more than two decades.

The 1998 US DHHS treatment guidelines recommended early ART to reduce risks to partners back in 1998 – also Karen Beckerman's poster at IAS Conference in Geneva.

The Rakai cohort in Uganda in heterosexual couples before effective ART reported no transmissions between when viral load was < 400.

In 2008 the Swiss Statement suggested risk was zero based on evidence review of smaller studies – but also because they worked closely with the sperm-washing clinics and had samples from more than 600 serodifferent couples trying to conceive. The PARTNER study was planned to provide evidence to support the Swiss Statement.

HPTN-052 – again in serodifferent couples – reported only one transmission in the first weeks of ART when viral load would still have been high and detectable.

Then the large international PARTNER studies produced a large dataset showing the absence of transmission – in a study designed to actively look for such cases.

PARTNER 2 extended and expanded the number of gay male participants – where sexual risk form anal sex is highest – with zero transmissions after more than 77,000 sexual exposures.

The U=U campaign changed everything: from a scientific agenda to a mainstream public health campaign on an international stage. It is remarkable that within just a few years, it is now unthinkable to go back to pre-U=U time.



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Evidence 2011 http://i-base.info/htb/32308 2011 HPTN-052 <sup>[5]</sup>	1700 couples	
Large randomised study: Early ART vs late ART 1700 serodifferent couples	1/28 early with high VL	27/28 no ART
All transmission were in couples without ART. 5. Cohen et al, NEJM	96% reduction	

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HPTN052 early vs late ART in serodifferent couples



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It is worth reporting the top line results from PARTNER again.

These observational studies tracked tracked real exposures/risk, included STIs and low level blips (is <200 c/mL) and still couldn't find a single linked transmission.

## **Reverse challenge**

- Data now reverses the scientific challenge: Anyone suggesting transmission is possible should now provide evidence to support this hypothesis.
- No cases 11 years after the Swiss Statement.
- No cases in >100,000 times in PARTNER.

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The accumulated data supporting U=U now reverses the scientific challenge.

Anyone with a hypothesis that transmission might still occur with an undetectable viral load now faces a challenge to provide evidence to support this.

There is currently none – including the absence of case reports in the 11 years since the Swiss Statement.

The rest of my talk will look at was that we communicated this in the UK



As confidence grew in U=U it was quickly clear that this was something that needed to be widely publicised.

Community groups provided an early lead.

But the lead taken by professional organisations was equally essential.

U=U needed to be a clearly communicatied by all doctors to all patients.



Later campaigns used more diverse images and included billboards with online videos.



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Posters https://i-base.info/uequals-u-qa/

Sent to all HIV clinics. Included HIV positive people.



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I would like to thank the Japanese Society for AIDS Research for the honour of invitation to speak at this important and timely meeting

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