



## BHIVA Satellite Symposium

*Tougher Times: Adapting to Increasing Demand with Declining Resources*

Monday 24 July 2017



# **Prevention: Supporting Generic PrEP Access and Offering Monitoring – Legalities and Practicalities Efficiencies Viewed Through 90:90:90**

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Speaker Name	Disclosure Statement
<b>Dr Nneka Nwokolo</b>	Dr Nwokolo has received speaker fees, honororaria and support for attendance at conferences from Gilead Sciences, Viiv, GSK, Janssen
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# 90-90-90

An ambitious treatment target  
to help end the AIDS epidemic

- By 2020, 90% of all people living with HIV will know their HIV status
- By 2020, 90% of all people with diagnosed HIV infection will receive sustained antiretroviral therapy
- By 2020, 90% of all people receiving antiretroviral therapy will have viral suppression



# To end the AIDS epidemic

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- Diagnose undiagnosed
- Treat diagnosed
- Prevent infection in those at risk

# Combination prevention is key

- UNAIDS (2010) provides the following definition of combination HIV prevention:
- “The strategic, simultaneous use of different classes of prevention activities (biomedical, behavioral, social/structural) that operate on multiple levels (individual, relationship, community, societal), to respond to the specific needs of particular audiences and modes of HIV transmission, and to make efficient use of resources through prioritizing, partnership, and engagement of affected communities”

# Combination prevention

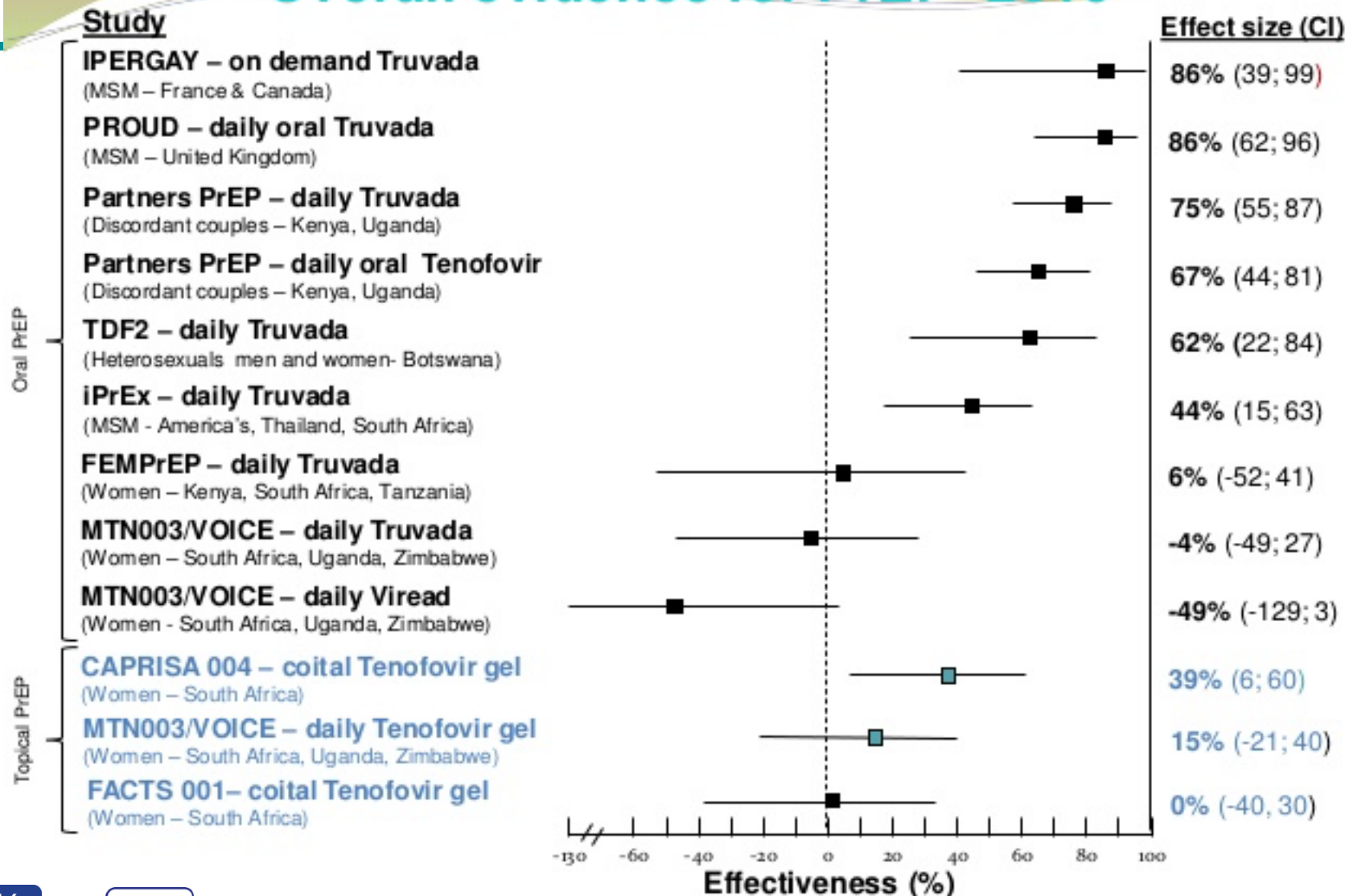
- Biomedical – e.g. male circumcision, PrEP, TasP
- Behavioural – e.g. testing, condom use, delayed coitarche, serosorting, safe injecting practices
- Structural – e.g. programmes or frameworks to enable or encourage safe behaviour, create safe environments and facilitate access to testing, treatment or other interventions

# Exactly how important is PrEP?

- Condoms – cornerstone of HIV prevention for decades
- Consistent condom use impossible in 100% of people 100% of the time
- No single intervention has provided as dramatic a reduction in HIV transmission as PrEP



# Overall evidence for PrEP- 2015

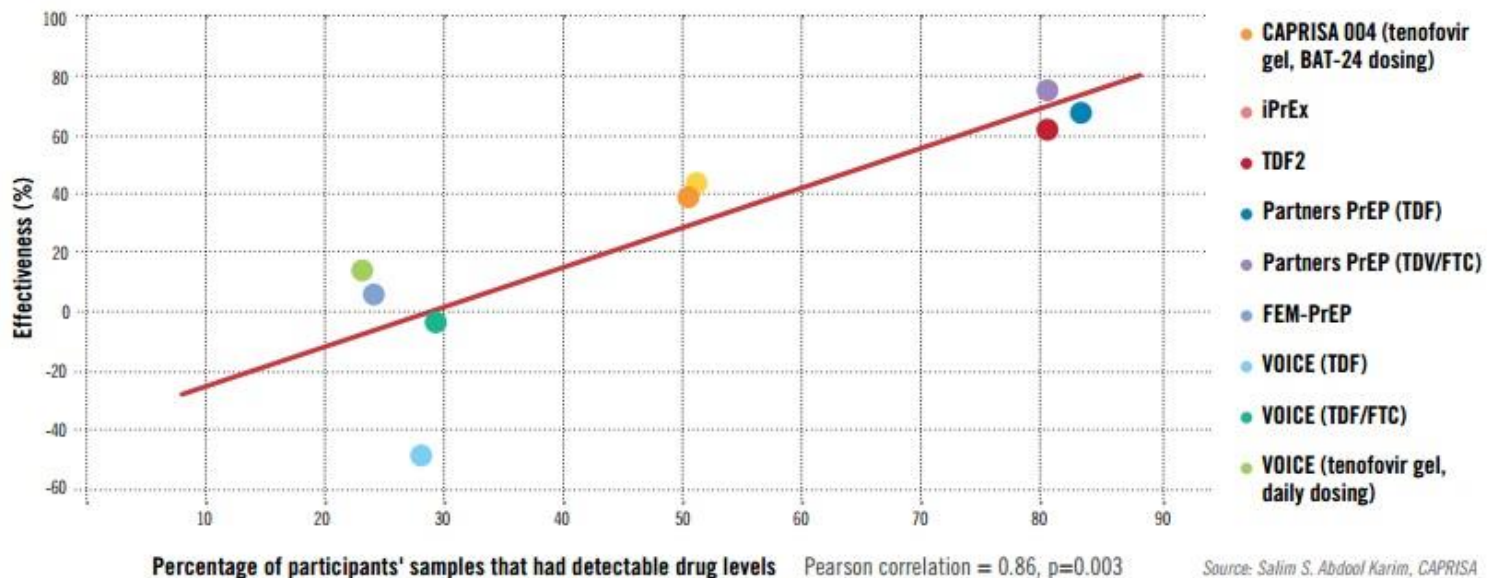


# Summary of PrEP trials

## PrEP Works if You Take It — Effectiveness and Adherence in Trials of Oral and Topical Tenofovir-Based Prevention

Trials of oral and topical tenofovir-based PrEP show that these strategies reduce risk of HIV infection if they are used correctly and consistently. Higher adherence is directly linked to greater levels of protection.

Calculations based on analyses involving a subset of total trial participants.



# Where has PrEP been approved?

- Australia
- Belgium
- Canada
- France
- Kenya
- Norway
- Peru
- **Scotland**
- South Africa
- USA
- Zimbabwe
- Brazil, Thailand in process of approval

# But most countries DON'T have PrEP programmes!

- As a result people are forced to purchase Truvada at significant cost (£400/month)
- “Clinic hopping” for PEP
- Using their HIV+ friends’ Truvada
- Smuggling PrEP into countries
- Purchasing generic TDF/FTC online

# Producers of generic PrEP

- Pharmaceutical companies whom Gilead has given the licence to produce generic TDF/TFC for use in HIV treatment programmes in the developing world

e.g.

- Cipla – India: Tenvir: EM
- Mylan – US/Netherlands: Ricovir EM
- Emcure – India: Tavin EM

# Fears about counterfeit TDF/FTC have not been borne out

Figure 2: Time-dependent plasma TDF concentrations following consumption of oral PrEP

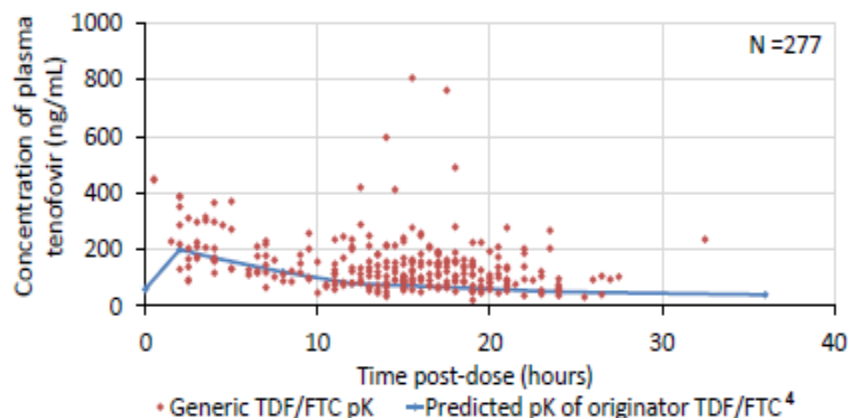
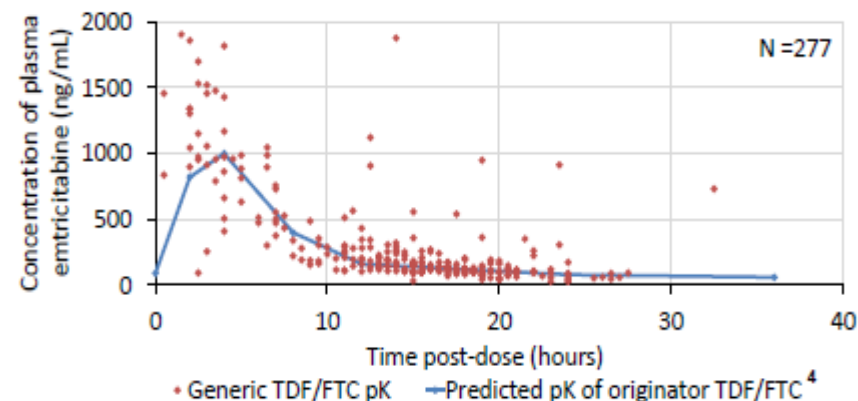


Figure 3: Time-dependent plasma FTC concentrations following consumption of oral PrEP





## Buy PrEP Now

### Where to buy PrEP online, now, in the UK

So far we have independently verified 4 different companies who reliably sell PrEP that you can trust. For full details on our independent verification process, [click here](#).

[United Pharmacies UK](#) (£44 per month)

Buy Now



United Pharmacies UK is our personally recommended supplier of PrEP, you do not need to upload a prescription after purchasing and they have some of the cheapest prices on the internet. In addition to independently verifying their product, we also use United Pharmacies to buy PrEP ourselves. The only minor issue is that due to running out of stock, orders occasionally have a delay of around 1 - 2 weeks.

1 months supply = £45.79 per month.

3 months supply = £41.69 per month, (£125.07 in total).

Delivery to the UK costs £6.75 and takes 7 - 14 business days



# But is it legal to purchase PrEP online?

- In many countries, it is illegal to purchase medicines online
- In the UK medicines can be purchased online if:
  - They are for personal use (3 months or less)
  - They are not illegal or restricted drugs e.g. narcotics
- MHRA – be careful



# What about ethics?

- UK General Medical Council
  - Clinicians have a duty of care to individuals at risk of acquiring HIV
  - Doctors should give patients the information they want and need about options for treating and managing their condition, the potential benefits, burdens and risks for each option, and any treatments that they think have greater potential benefit for the patient than they or their organization can offer

# Practicalities

- September 2015 56 Dean Street set up service to enable people to purchase Truvada at NHS list price with monitoring (HIV testing, STI screening, renal function testing) on the NHS)
- Rapidly found that people were purchasing PrEP online and coming to the clinic for monitoring
- February 2016, set up PrEP monitoring in general sexual health service
- Other London clinics also started to do the same

# PrEP assessment and monitoring

- Patients see doctor or nurse for discussion
- Identification and management of high risk behaviour e.g. chemsex
- Offering other risk reduction interventions – Dean Street PRIME (Just us; Condoms +; Take a Break; PrEP; Total Bareback)



# Monitoring

Before starting	3 monthly	Yearly
Assessment	Assessment	
HIV 4 <sup>th</sup> generation test (retest if still in window)	HIV 4 <sup>th</sup> generation test	
STI screen	STI screen	
Urine dipstick	Urine Dipstick	
U&E		U&E
Hepatitis B		

## Hepatitis C testing according to risk



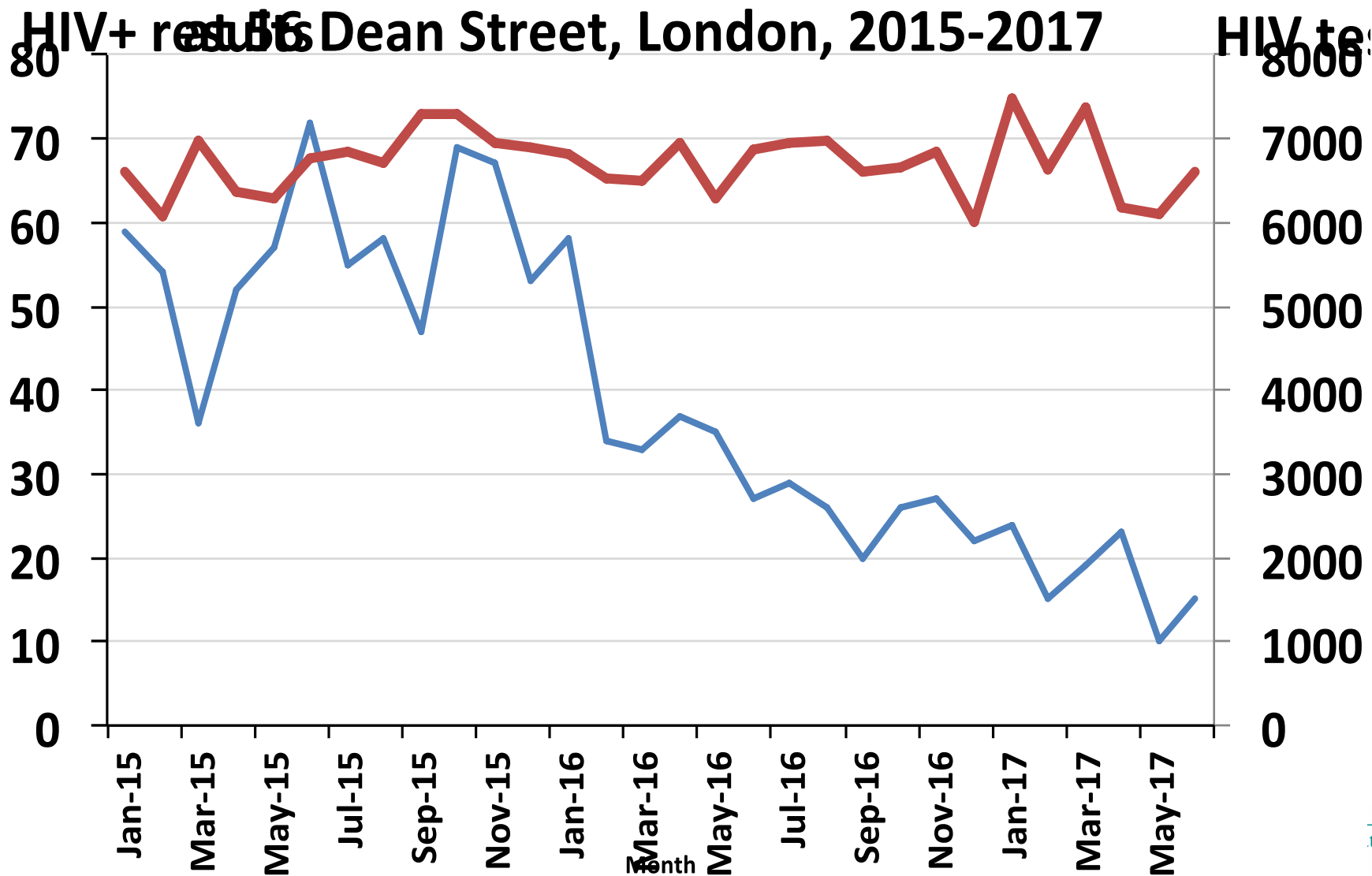
# Dramatic and unexpected result!



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NHS Foundation Trust



# Figure 1 - HIV tests and positive diagnoses



# Now what?



Chelsea and Westminster Hospital **NHS**  
NHS Foundation Trust



# While PrEP not nationally available

- Identify individuals at risk
- Provide information
  - [www.iwantprepnnow.co.uk](http://www.iwantprepnnow.co.uk)
  - [www.prepster.info](http://www.prepster.info)
  - [www.eatg.org](http://www.eatg.org) - PrEP access in Europe



# Risk factors for HIV acquisition

- MSM/trans woman
  - Condomless anal sex with partner of unknown HIV status or not on treatment
  - Bacterial rectal STI
  - Syphilis
- HIV - partner of HIV + person with detectable VL
- Anyone clinically assessed to be at similar risk to individuals above

# Challenges

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- Ensuring that individuals accessing PrEP online access monitoring
- Identifying non-MSM individuals at risk and promoting PrEP to them
- Creating capacity in sexual health clinics
- Controlling STIs



# Thank you

