



One Pill a Day?

Alternative Approaches for Pre-Exposure Prophylaxis





Christopher B. Hurt, MD, FIDSA

Associate Professor of Medicine

Director, North Carolina HIV Training & Education Center

Director, Inpatient General ID Consultation Services

Site PI, Ryan White HIV/AIDS Program Part D, UNC ID Clinic

Institute for Global Health & Infectious Diseases

University of North Carolina at Chapel Hill

School of Medicine

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The views expressed are not necessarily those of HRSA or NIH.

Objectives

- Name the currently available options for pre-exposure prophylaxis (PrEP) in the United States.
- Outline the pre-clinical and clinical trials data supporting “on demand” PrEP.
- Identify candidates for on-demand PrEP according to current US guidance.
- Describe data behind the long-acting, injectable form of PrEP and when it is likely to be approved.

USPSTF recommends PrEP, June 2019



Final Recommendation Statement

Prevention of Human Immunodeficiency Virus (HIV) Infection: Preexposure Prophylaxis

June 11, 2019

Recommendations made by the USPSTF are independent of the U.S. government. They should not be construed as an official position of the Agency for Healthcare Research and Quality or the U.S. Department of Health and Human Services.



Recommendation Summary

Population	Recommendation	Grade
Persons at high risk of HIV acquisition	The USPSTF recommends that clinicians offer preexposure prophylaxis (PrEP) with effective antiretroviral therapy to persons who are at high risk of HIV acquisition. See the Clinical Considerations section for information about identification of persons at high risk and selection of effective antiretroviral therapy.	A

What impact does USPSTF have on costs?

“A key provision of the Affordable Care Act (ACA) is ... private insurance plans cover recommended preventive services without any patient cost-sharing. ...

Insurers now must cover evidence-based services for adults that have a rating of “A” or “B” in the current recommendations of the [USPSTF]”

August 2015 | Fact Sheet

Preventive Services Covered by Private Insurance under the Affordable Care Act

A key provision of the Affordable Care Act (ACA) is the requirement that private insurance plans cover recommended preventive services without any patient cost-sharing.¹ Research has shown that evidence-based preventive services can save lives and improve health by identifying illnesses earlier, managing them more effectively, and treating them before they develop into more complicated, debilitating conditions, and that some services are also cost-effective.² However, costs do prevent some individuals from obtaining preventive services (Figure 1). The coverage requirement aims to remove cost barriers.

Figure 1
Cost barriers to preventive services for men

Gender	Insurance Status	FPL Category	Share of workers
Women	All	Less than 200% FPL	10%
	Insured	200% FPL or greater	15%
	Uninsured	200% FPL or greater	25%
Men	All	Less than 200% FPL	10%
	Insured	200% FPL or greater	15%
	Uninsured	200% FPL or greater	25%

NOTE: Among women and men, the share of workers with cost barriers is statistically significantly different.
SOURCE: Kaiser Family Foundation

ACA REQUIREMENTS FOR COVERAGE OF PREVENTIVE SERVICES

Under Section 2713 of the ACA, private health plans must cover recommended preventive services and may not impose cost-sharing (such as copayments, deductibles, or coinsurance) for these services.³ These requirements apply to all private health plans, including self-insured plans in which employers contract with third-party administrators, with the exception of those plans that maintain “grandfathered” status. “Grandfathered” plans must have been in existence prior to March 23, 2010, and must not have made changes to their coverage (for example, increasing patient cost-sharing, cutting benefits, or reducing employer contributions). In 2014, 26% of workers covered in employer sponsored plans were still in grandfathered plans,⁴ and it is expected that over time almost all plans will lose their grandfathered status.

The Biden admin removed ambiguity in July '21

<https://www.nastad.org/resource/nastad-prep-coverage-brief-prep-services-covered-no-cost-sharing>



NASTAD PrEP Coverage Brief: PrEP Services Covered with No Cost-Sharing July 2021

Pre-exposure prophylaxis (PrEP) – a once daily antiretroviral medication taken to prevent HIV – is an incredibly effective HIV prevention tool. In light of its effectiveness and safety, in June, 2019, the US Preventive Services Task Force (USPSTF) gave PrEP an “A” grade recommendation, noting that “the USPSTF concludes with high certainty that the net benefit of the use of PrEP to reduce the risk of acquisition of HIV infection in persons at high risk of HIV infection is substantial.” This fact sheet will walk through the coverage and cost-sharing requirements for public and private payers that come with this USPSTF Grade A recommendation.

What Does a USPSTF Grade A Recommendation Mean for Coverage and Cost Sharing?

The Affordable Care Act (ACA) requires commercial health plans and Medicaid expansion programs to cover select preventive services – including any service with a Grade A or B from the USPSTF – without cost-sharing, which means that these services must be covered before any deductible and without coinsurance or a copayment.¹ Now that PrEP has a Grade A recommendation from USPSTF, most commercial health plans and Medicaid expansion programs must cover PrEP without cost sharing as of January 1, 2021.

Preventive Services

The list of preventive services that must be covered without cost-sharing is based on the recommendations of several expert bodies, including the [USPSTF](#), which is an independent, volunteer panel of national experts in prevention and evidence-based medicine. The USPSTF works to improve the health of all Americans by making evidence-based [recommendations](#) about clinical preventive services such as screenings, counseling services, and preventive medications. In addition to PrEP, there are other sexual health services that have a USPSTF A or B grade, including screening for HIV, chlamydia, gonorrhea, HBV, HCV, and Syphilis. A list of preventive services is available at healthcare.gov/preventive-care-benefits

What Plans Must Cover PrEP without Cost Sharing?

All non-grandfathered commercial health plans are required to cover PrEP services without cost sharing. This includes individual marketplace plans, and small and large group employer-sponsored plans. In addition, state Medicaid expansion coverage programs, including Basic Health Plans, must also cover PrEP without cost sharing.

¹ A summary of Section 2713 in the context of HIV, hepatitis, and STI prevention is available at cdc.gov/nchhsto/highqualitycare/preventiveservices

By 17 September 2021, non-grandfathered health plans were required to cover PrEP services without cost-sharing (before deductible and without coinsurance or copayment).

- Marketplace plans
- Employer-sponsored plans
- Medicaid
- Medicare provider & lab services

PrEP is defined as the service, not the drug

<https://www.nastad.org/resource/nastad-prep-coverage-brief-prep-services-covered-no-cost-sharing>



NASTAD PrEP Coverage Brief: PrEP Services Covered with No Cost-Sharing

July 2021

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What’s covered?

- HIV testing every 3 months
- Baseline hepatitis B screening
- Baseline and periodic hepatitis C screening
- Creatinine assessments
- Pregnancy testing
- STI screening from exposed anatomical sites
- Adherence counseling
- Medications approved for PrEP

One extra step is needed: modifier 33

<https://www.nastad.org/resource/nastad-prep-coverage-brief-prep-services-covered-no-cost-sharing>



NASTAD PrEP Coverage Brief: PrEP Services Covered with No Cost-Sharing July 2021

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Just to be on the safe side, append modifier 33 to these encounters!

“When the primary purpose of the service is the delivery of an evidence-based service in accordance with a [USPSTF] A or B rating in effect and other preventive services identified in preventive services mandates ... the service may be identified by adding 33 to the procedure.”

Two approved options for daily use



Truvada^{TDF}

emtricitabine / tenofovir disoproxil fumarate

Approved in 2012

Proven to protect people during:

Injection drug use

Insertive vaginal sex

Insertive anal sex (topping)

Receptive vaginal sex

Receptive anal sex (bottoming)

Descovy^{TAF}

emtricitabine / tenofovir alafenamide fumarate

Approved in 2019

Proven to protect people during:

~~Injection drug use~~

~~Insertive vaginal sex~~

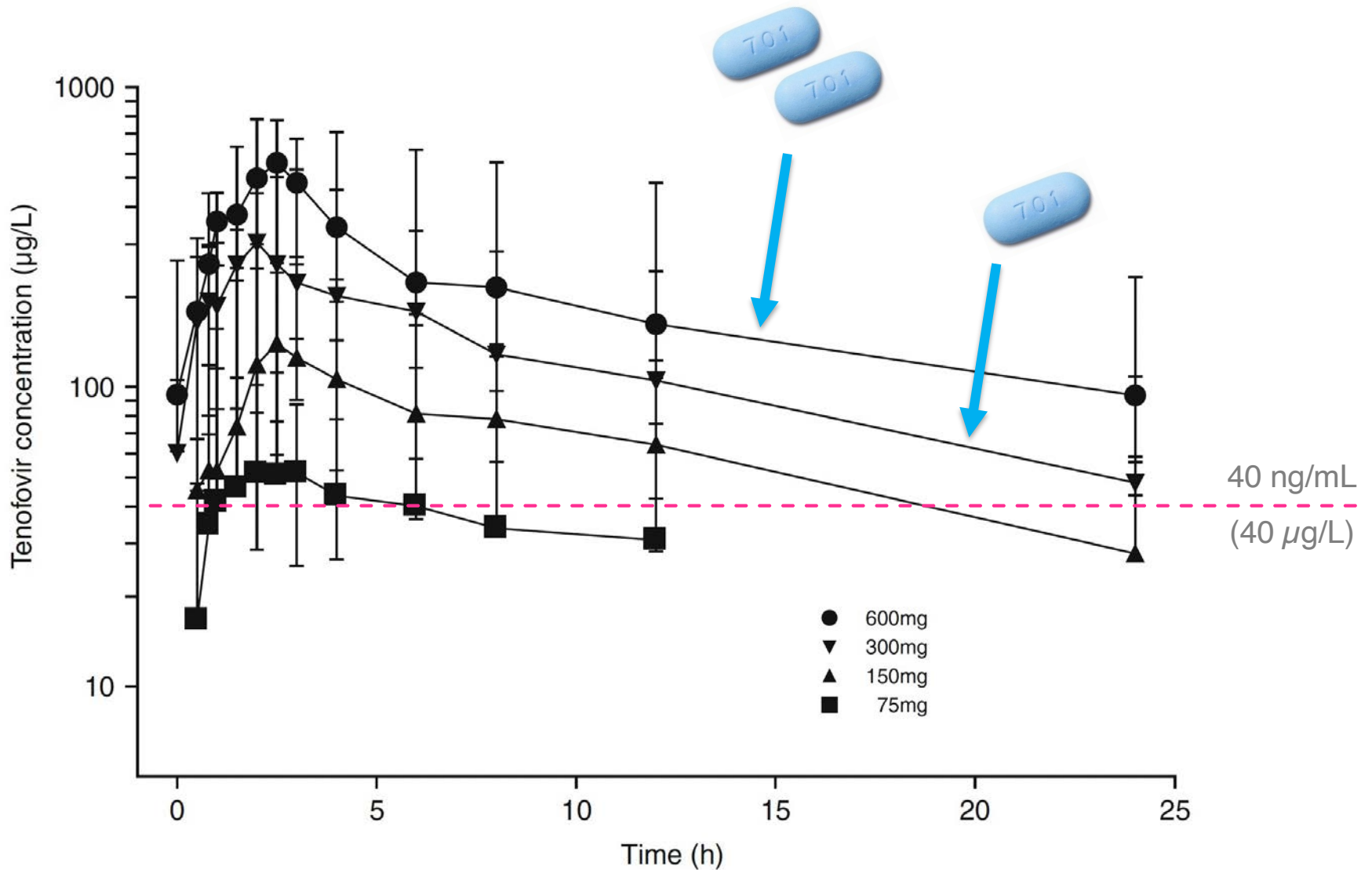
Insertive anal sex (topping)

~~Receptive vaginal sex~~

Receptive anal sex (bottoming)

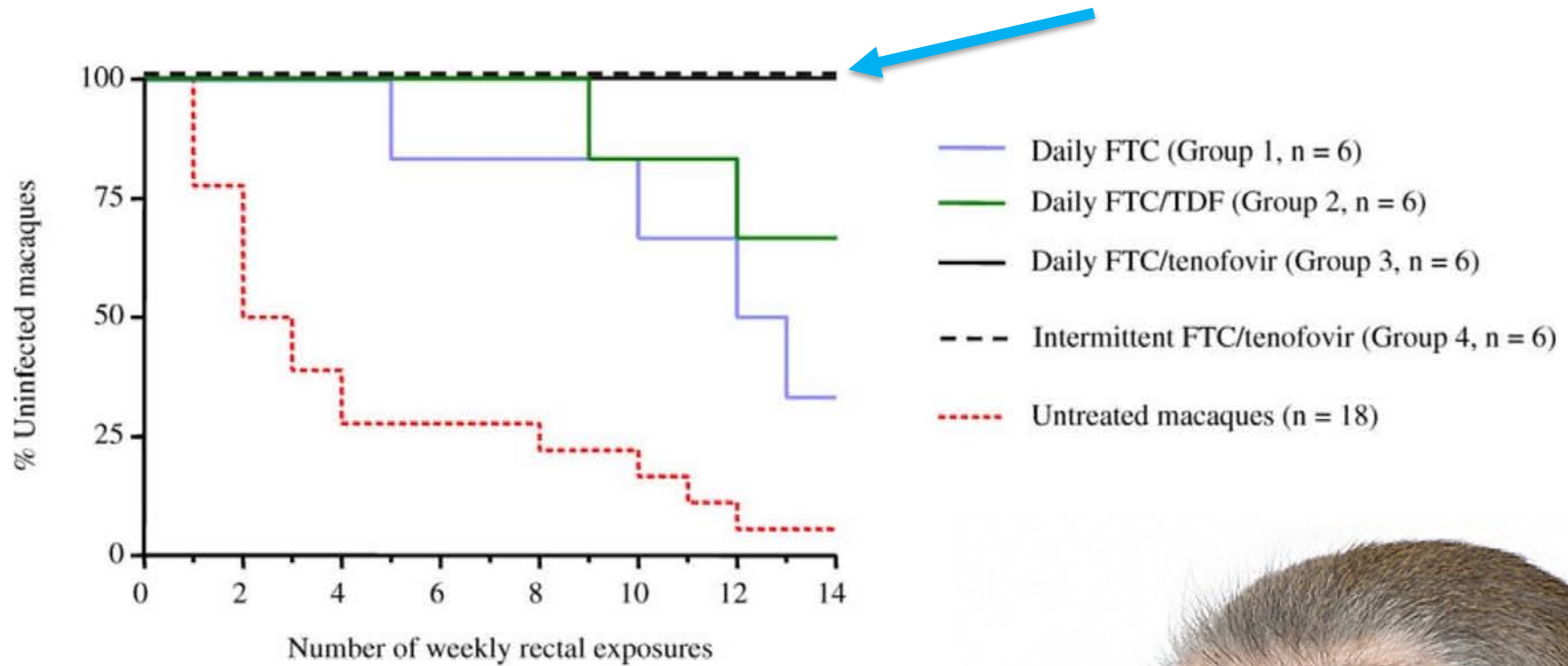
**What's the evidence
suggesting less frequent
dosing could work?**

Rapid rise to protective level, sustained over time



Conc'n published in → Barditch-Crovo P, et al. *Antimicrob Agents Chemother.* 2001;45(10):2733-2739
Figure from → Kearney BP, et al. *Clin Pharmacokinet.* 2004;43(9):595-612
40 ng/mL protective threshold from → Donnell D, et al. *JAIDS.* 2014;66(3):340-348

Rectal challenge studies showed promise



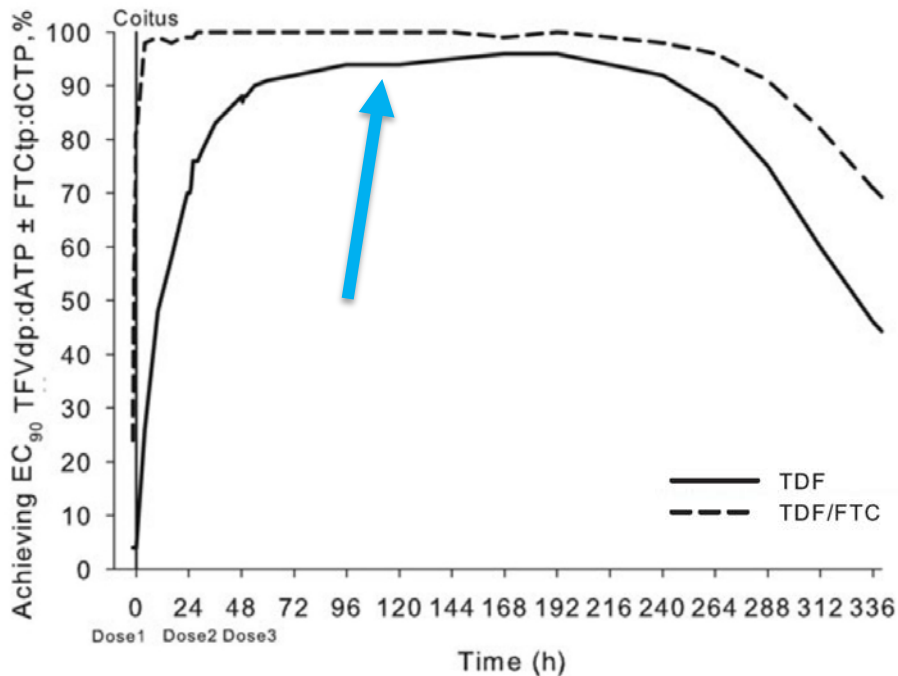
Intermittent = 2h before and 24h after each weekly virus challenge



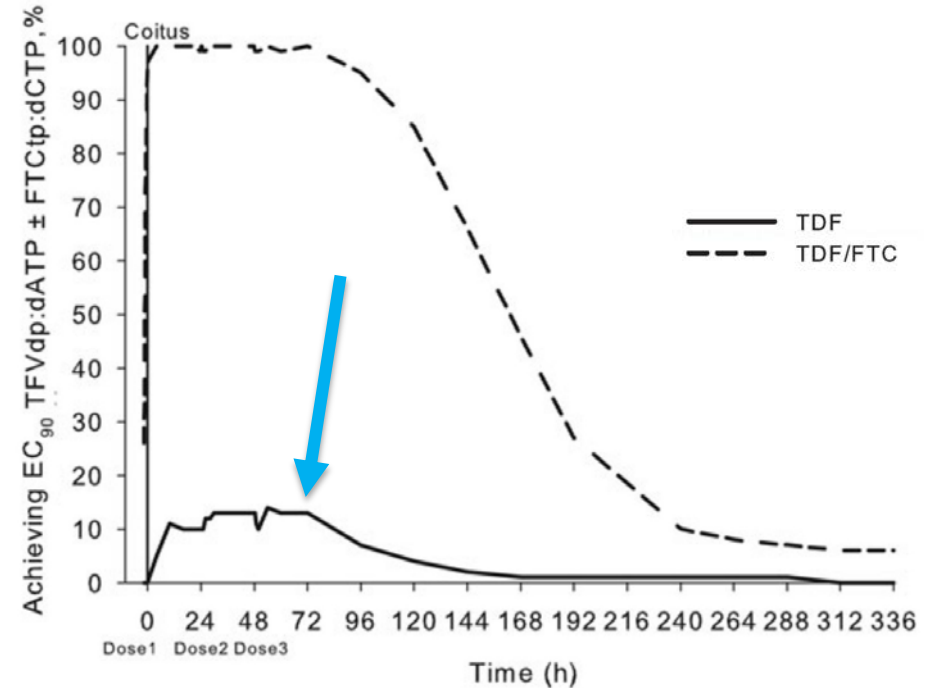
Protection differs markedly by tissue type

Two FTC/TDF tablets 2h before sex (600 mg TDF)
Third tablet 24h after first two
Fourth tablet 24h after third

Rectal tissue



Cervicovaginal tissue



Very promising for protection during anal sex, but not during vaginal sex

ANRS IPERGAY

Montréal & multiple sites in France

Feb 2012 – Jan 2015



400

At-risk men
who have sex
with men

50%

On-Demand
Placebo
(n=201)

50%

On-Demand
FTC/TDF
(n=199)

35

median age at
study entry
(IQR 29-43)

8

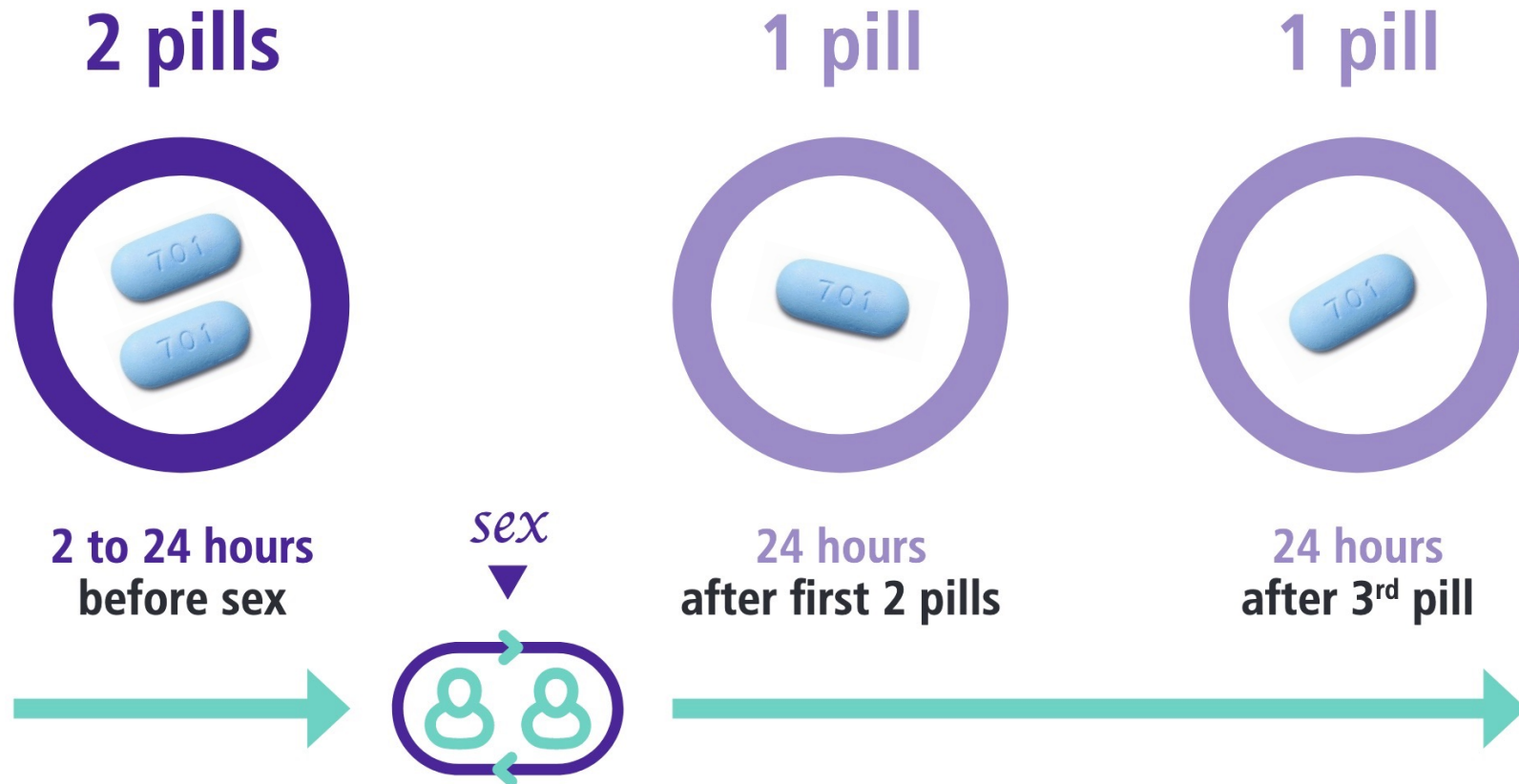
median partners
in prior 2 months
(IQR 5-17)

10

median episodes of
sex in prior 4 weeks
(IQR 6-18)

ANRS IPERGAY

On-demand oral **FTC/TDF versus placebo**



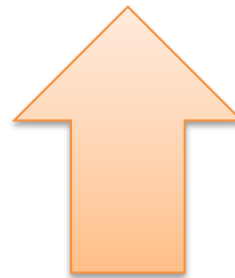
Molina JM, et al. *NEJM*. 2015;373(23):2237-46
Molina JM, et al. AIDS 2016, Durban, South Africa. Abstract WEAC0102
Graphic modified from <https://www.who.int/hiv/pub/prep/211/en/>

ANRS IPERGAY

Montréal & multiple sites in France



Study Phase	N	Total F/U (PY)	Median Pills/ Month	HIV Incidence / 100 PY		Risk Reduced (%)	P
				FTC/TDF	Placebo		
Placebo controlled RCT ^[1]	400	431.3	15	0.91	6.60	86	.002
Open-label extension ^[2]	361	518	18	0.19	6.60	97	NR



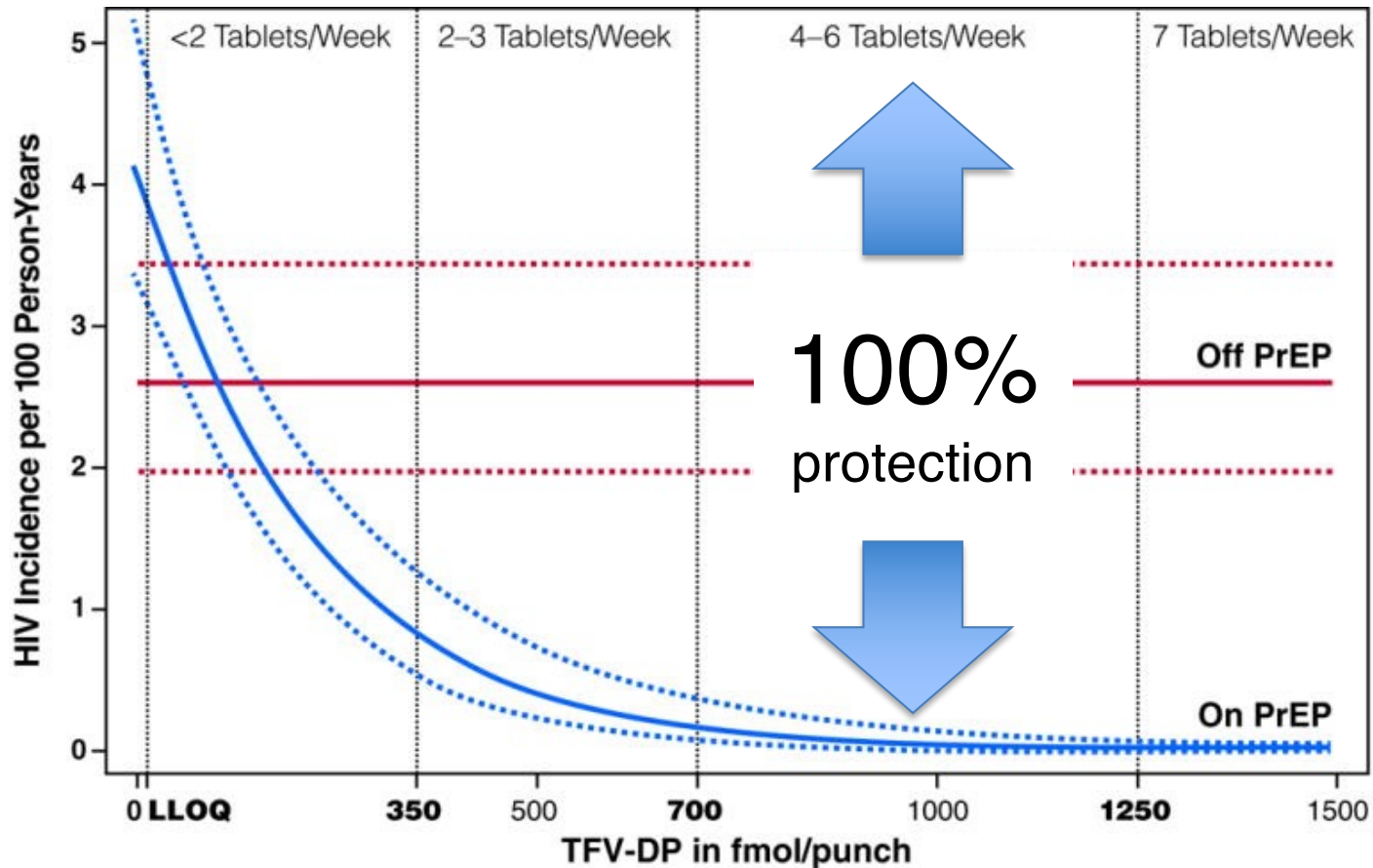
Adapted from slide by
clinicaloptions.com

1. Molina JM, et al. N Engl J Med. 2015;373:2237-2246.
2. Molina JM, et al. Lancet HIV. 2017;4:e402-e410.
3. Antoni G, et al. Lancet HIV. 2020 Feb;7(2):e113-e120.

16 pills per month = 4 per week...

Post-hoc analysis from iPrEx OLE

June 2011 - June 2012



TFV-DP in DBS	(fmol/punch)	BLQ	LLOQ to <350	≥350 to <700	≥700 to <1250	≥1250
Estimated Dosing	(Tablets/Week)	None	<2	2-3	4-6	7
Follow-up	(% of Visits)	25%	26%	12%	21%	12%
HIV Infections		18	9	1	0	0
Person Years		384	399	179	316	181
HIV Incidence Rate	(95% CI)	4.70 (2.99-7.76)	2.25 (1.19-4.79)	0.56 (0-2.50)	0 (0-0.61)	0 (0-1.06)

ANRS IPERGAY

Montréal & multiple sites in France



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				FTC/TDF	Placebo		
Placebo controlled RCT ^[1]	400	431.3	15	0.91	6.60	86	.002
Open-label extension ^[2]	361	518	18	0.19	6.60	97	NR
Substudy (men with less frequent sex) ^[3]	269	134	9.5	0	9.3	100	NR



Adapted from slide by
clinicaloptions.com

1. Molina JM, et al. N Engl J Med. 2015;373:2237-2246.
2. Molina JM, et al. Lancet HIV. 2017;4:e402-e410.
3. Antoni G, et al. Lancet HIV. 2020 Feb;7(2):e113-e120.

ANRS Prévenir

Multicenter, open-label cohort study in Paris



May 2017 – Sept 2020

3067

At-risk persons
(target N = 3000)

98.5% MSM

51%

Daily
FTC/TDF
(n=1544; 8769 acts)

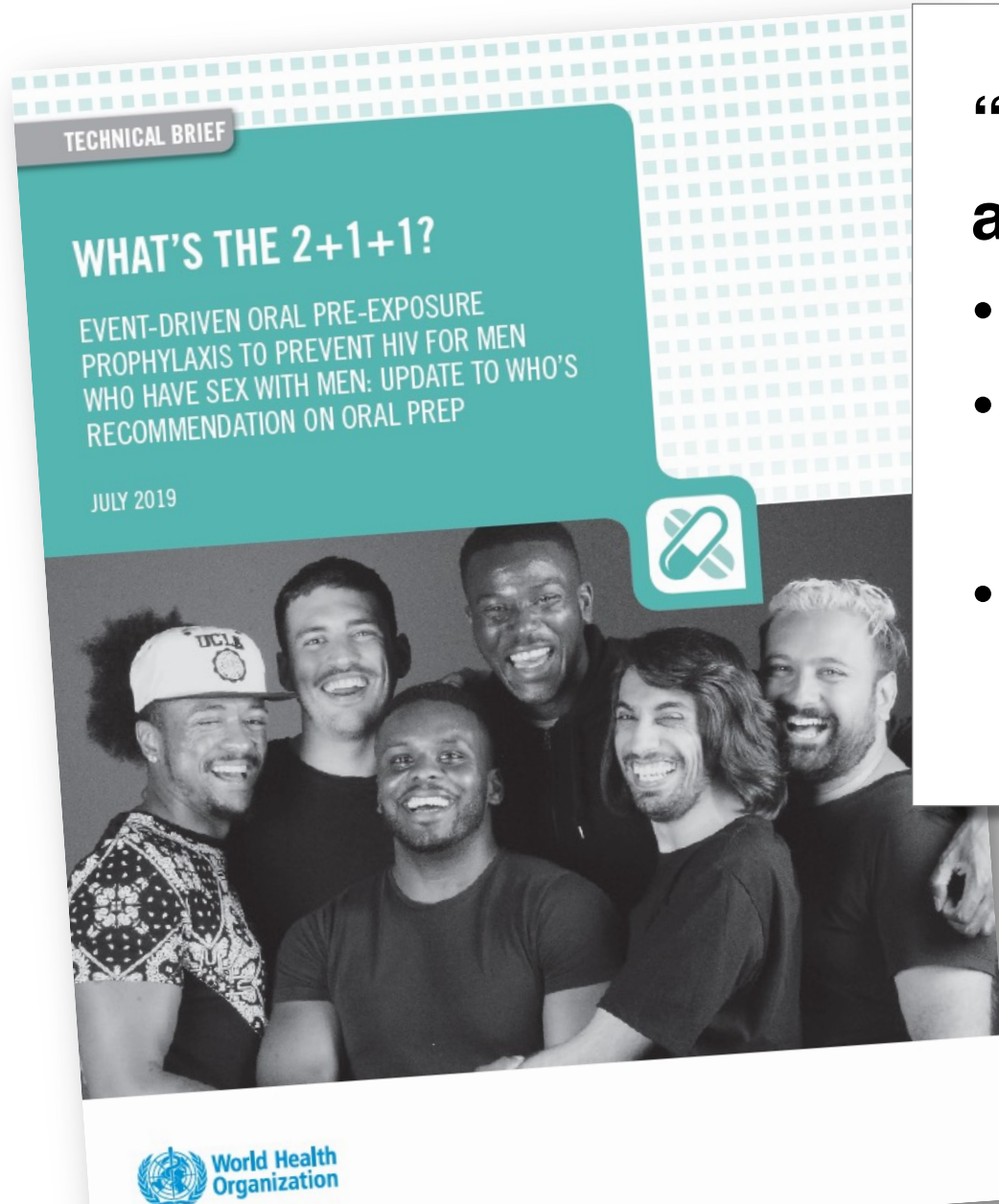
49%

On-Demand
FTC/TDF
(n=1515; 8507 acts)

3 new HIV infections
on daily PrEP arm
(all had stopped PrEP)

3 new HIV infections
on-demand arm
(all had stopped PrEP)

2+1+1 with FTC/TDF* works for MSM...



“Event-driven” PrEP is appropriate for MSM who:

- have infrequent sex
- are able to plan for sex at least 2h in advance
- can delay sex for at least 2h [to allow for dosing]

* Truvada, NOT Descovy

There are NO EFFICACY DATA on Descovy for on-demand PrEP

<https://www.who.int/hiv/pub/prep/211/en/>

...and American HIV experts concur...



“On-demand” PrEP is appropriate for MSM who:

- have infrequent sex
- are able to plan for sex at least 2h in advance
- do NOT have active hepatitis B infection

* Truvada, NOT Descovy

There are NO EFFICACY DATA on Descovy for on-demand PrEP

Saag MS, et al. JAMA. 2018;320(4):379-96

...but it's NOT recommended in the US

Do not use other than daily dosing (e.g., intermittent, episodic [pre/post sex only], or other discontinuous dosing)

US Public Health Service

**PREEXPOSURE PROPHYLAXIS FOR
THE PREVENTION OF HIV
INFECTION IN THE UNITED STATES
– 2017 UPDATE**

A CLINICAL PRACTICE GUIDELINE



<https://www.cdc.gov/hiv/pdf/risk/prep/cdc-hiv-prep-guidelines-2017.pdf>

...but it's **NOT** recommended in the US

^
yet

Draft for Public Comment

US Public Health Service

**PREEXPOSURE PROPHYLAXIS FOR
THE PREVENTION OF HIV
INFECTION IN THE UNITED
STATES-2021 UPDATE**

A Clinical Practice Guideline



DRAFT May 2021

“While not an FDA-approved regimen... [IPERGAY & Prébenir studies demonstrated] the HIV prevention efficacy of 2-1-1 dosing only with F/TDF and only for MSM.”

...but it's **NOT** recommended in the US

^
yet

Guidance for off-label
prescribing is
provided for clinicians
who choose to offer
2-1-1 with FTC/TDF
to eligible MSM...

Draft for Public Comment

US Public Health Service

PREEXPOSURE PROPHYLAXIS FOR
THE PREVENTION OF HIV
INFECTION IN THE UNITED
STATES-2021 UPDATE

A Clinical Practice Guideline



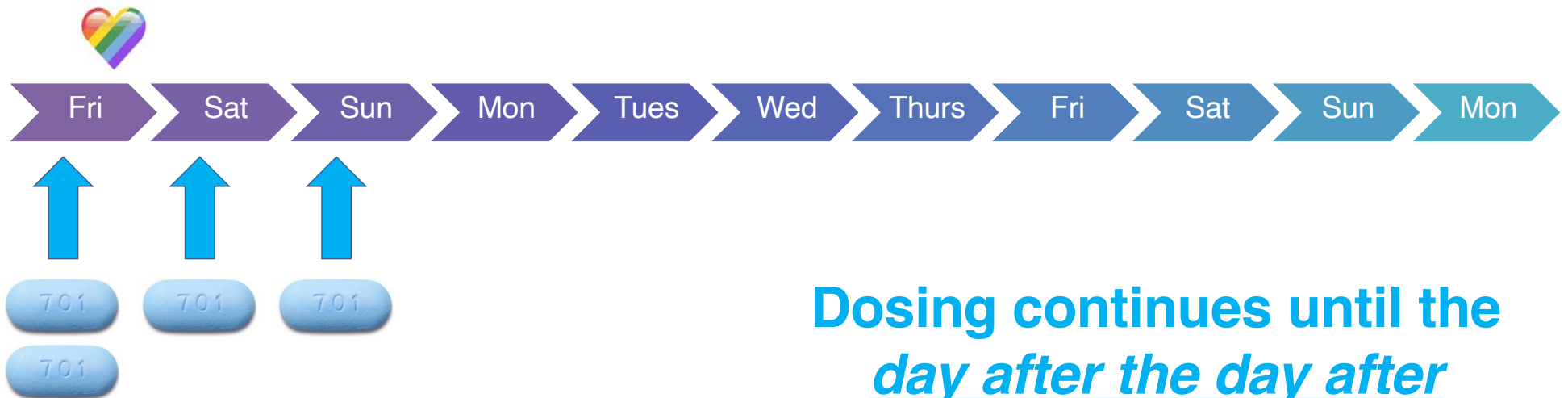
DRAFT May 2021

A big date on Friday night

Two FTC/TDF tablets 2-24h before sex

One FTC/TDF tablet 24h after first two tablets

One FTC/TDF tablet 48h after first two tablets



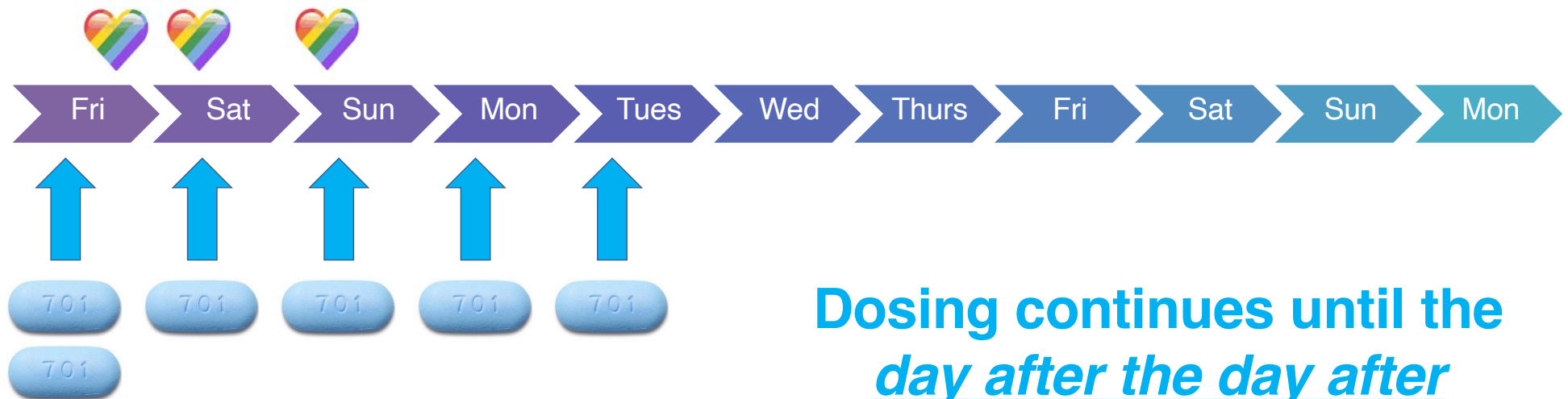
Things go really well Friday night

Two FTC/TDF tablets 2-24h before sex

One FTC/TDF tablet 24h after first two tablets

One FTC/TDF tablet 48h after first two tablets

**Continue taking one tablet every 24h until
until 2 days have passed since last “sex day”**



**Dosing continues until the
day after the day after
the last “sex day”**

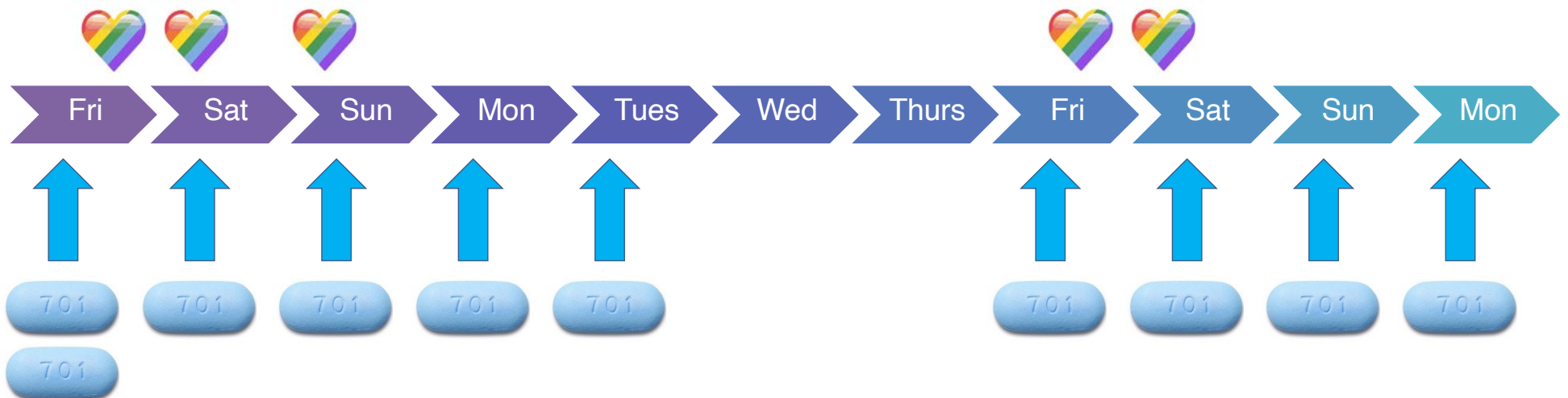
Less than 7d? One tab, not two!

Two FTC/TDF tablets 2-24h before sex

One FTC/TDF tablet 24h after first two tablets

One FTC/TDF tablet 48h after first two tablets

If less than 7 days elapse between end of one dosing period and start of next, ONE tablet to restart



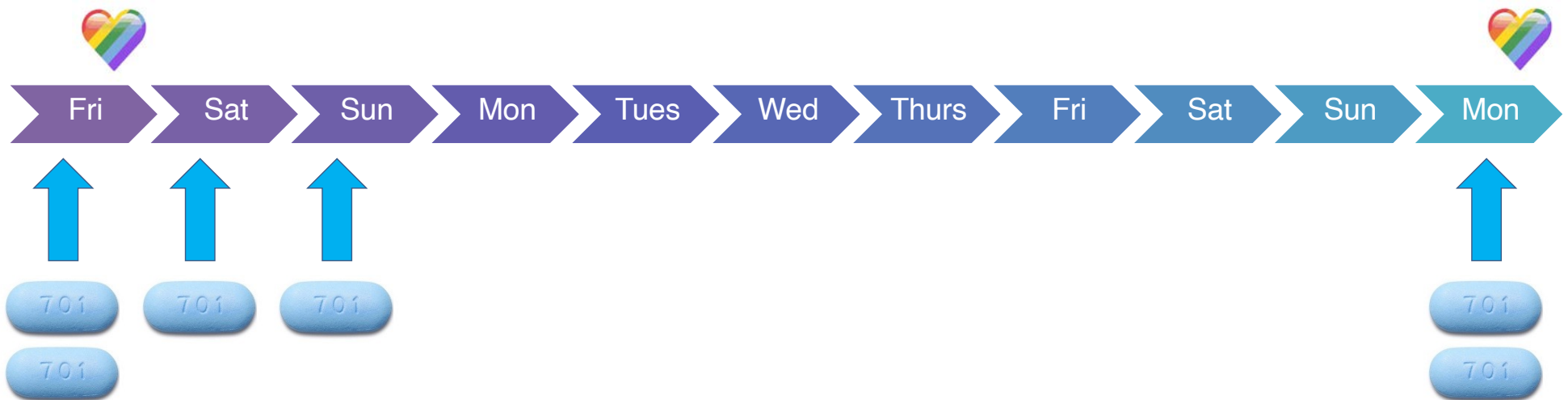
More than 7d? Start 2-1-1 over!

Two FTC/TDF tablets 2-24h before sex

One FTC/TDF tablet 24h after first two tablets

One FTC/TDF tablet 48h after first two tablets

If less than 7 days elapse between end of one dosing period and start of next, ONE tablet to restart



If more than 7 days elapse between end of one dosing period and start of next, TWO tablets to restart

Summary

- Daily PrEP is the default for most patients.
- Pharmacologically, on-demand PrEP is only an option for protection during anal sex.
- On-demand PrEP is a viable option that is as effective as daily PrEP for MSM at risk.
- **ONLY FTC/TDF CAN BE USED FOR 2-1-1!**
We have no data with FTC/TAF (Descovy).
- On-demand PrEP can get complicated fast.
It's not bad to be selective with recommending it.

Pregnancy Prevention

HIV Prevention

Education & behavior modification

Education & behavior modification

Condoms



Condoms

Rings



Rings

Birth control pill & injection



PrEP (oral & injectable)

“Morning-after pill”



Post-exposure prophylaxis

Spermicide



Topical microbicides

Implantable birth control



Broadly neutralizing Abs
Implantables

Vasectomy
Tubal Ligation

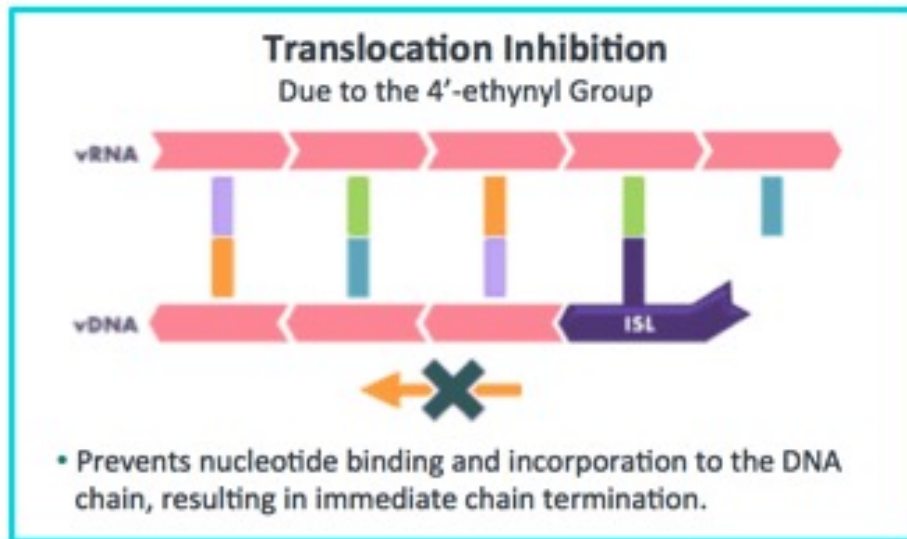
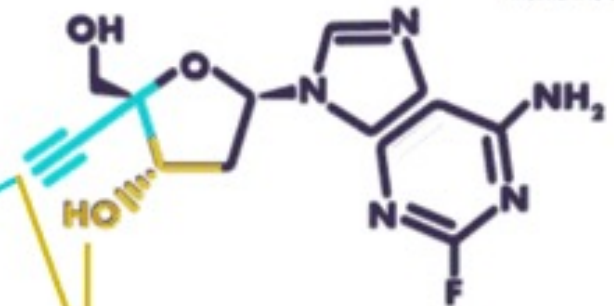


U=U / TasP
Vaccination

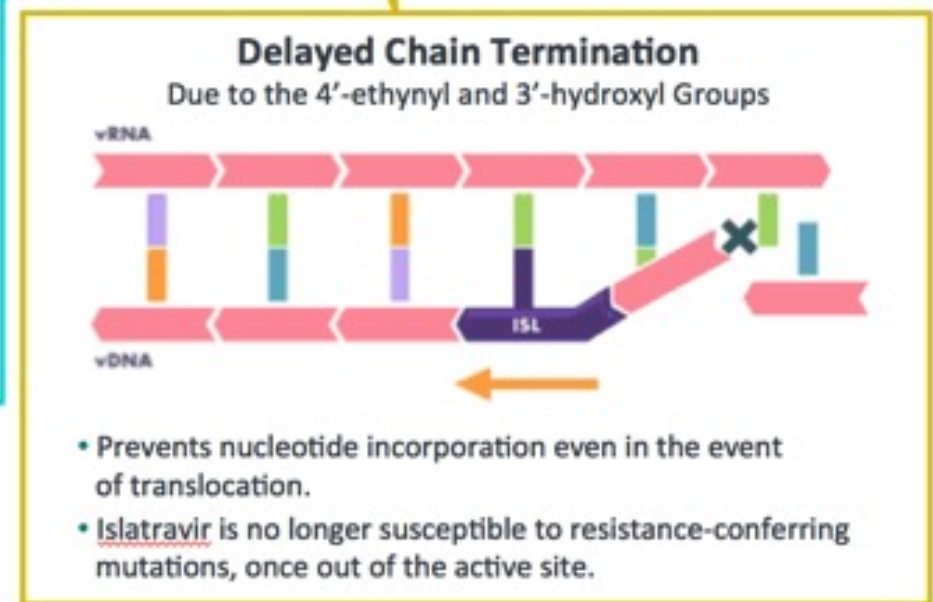
Islatravir

First-in-class nucleoside reverse transcriptase **translocation** inhibitor **NRTTI**
Formerly known as MK-8591 or EFdA

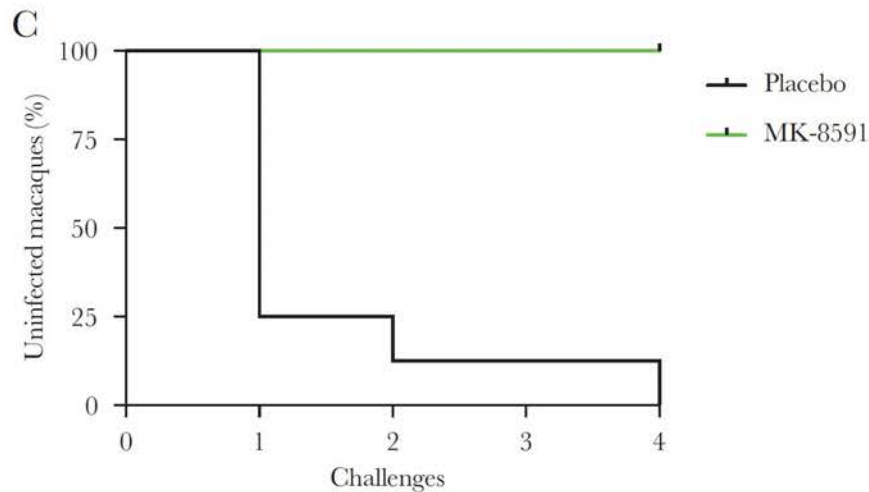
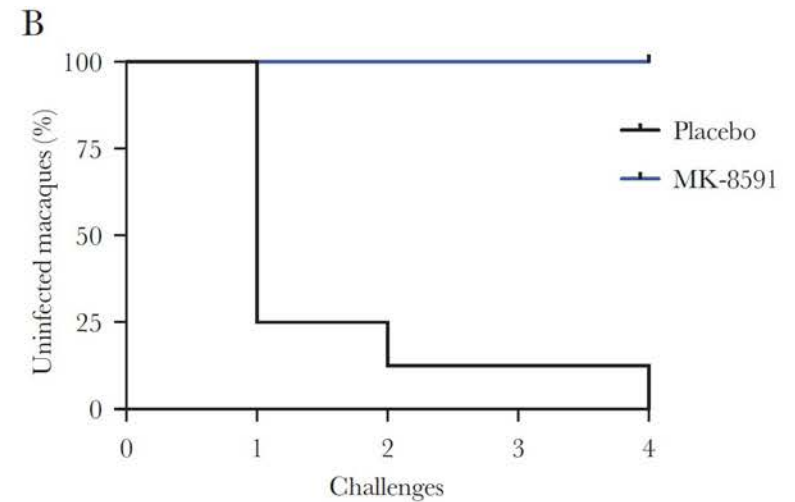
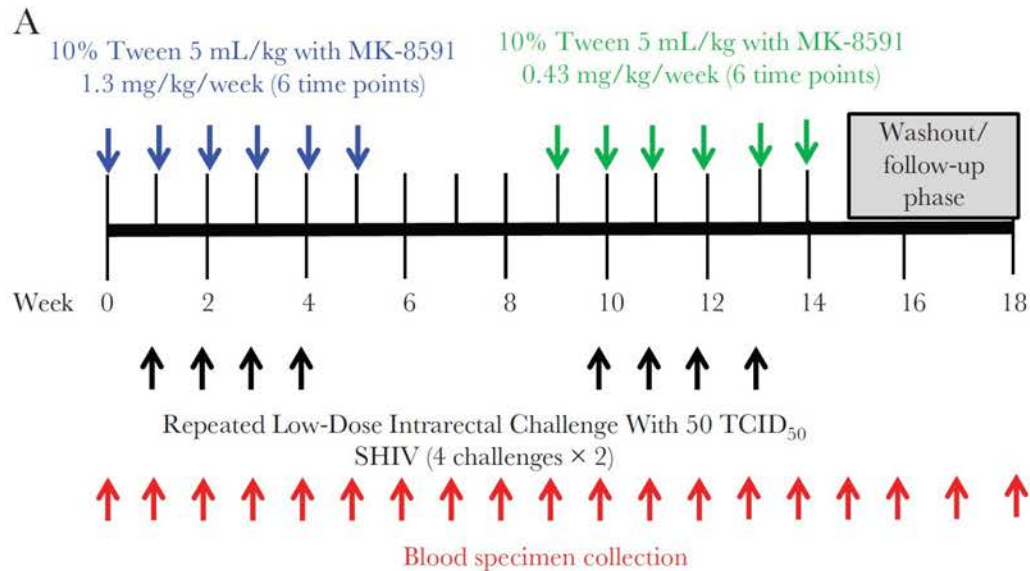
Two mechanisms of action



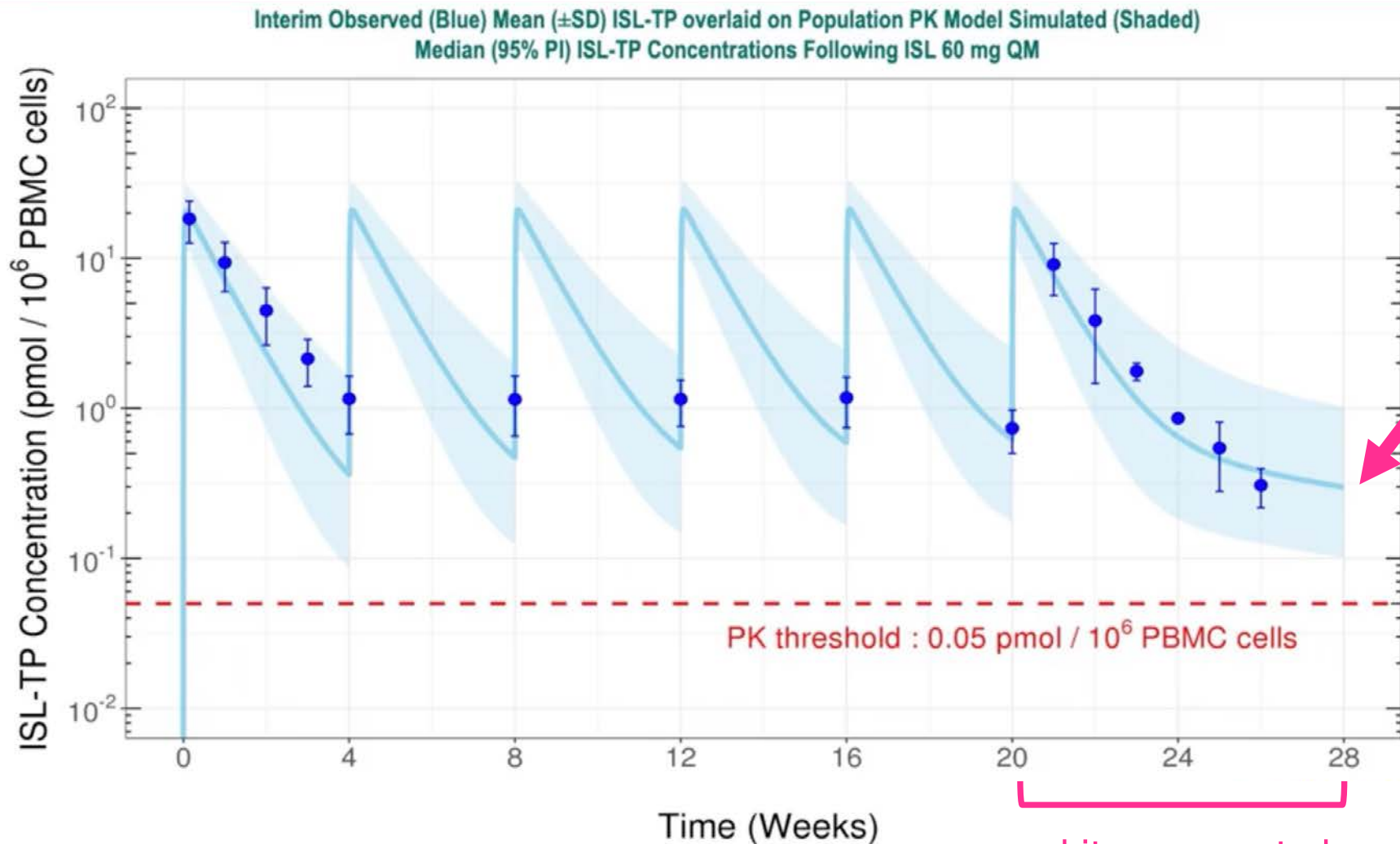
Essentially, it's "sticky" and once incorporated, it keeps the entire RT "machine" from ratcheting forward (strong interaction with dNTP binding site of RT)



Islatravir PO once weekly protects macaques



Islatravir PO once monthly maintains levels

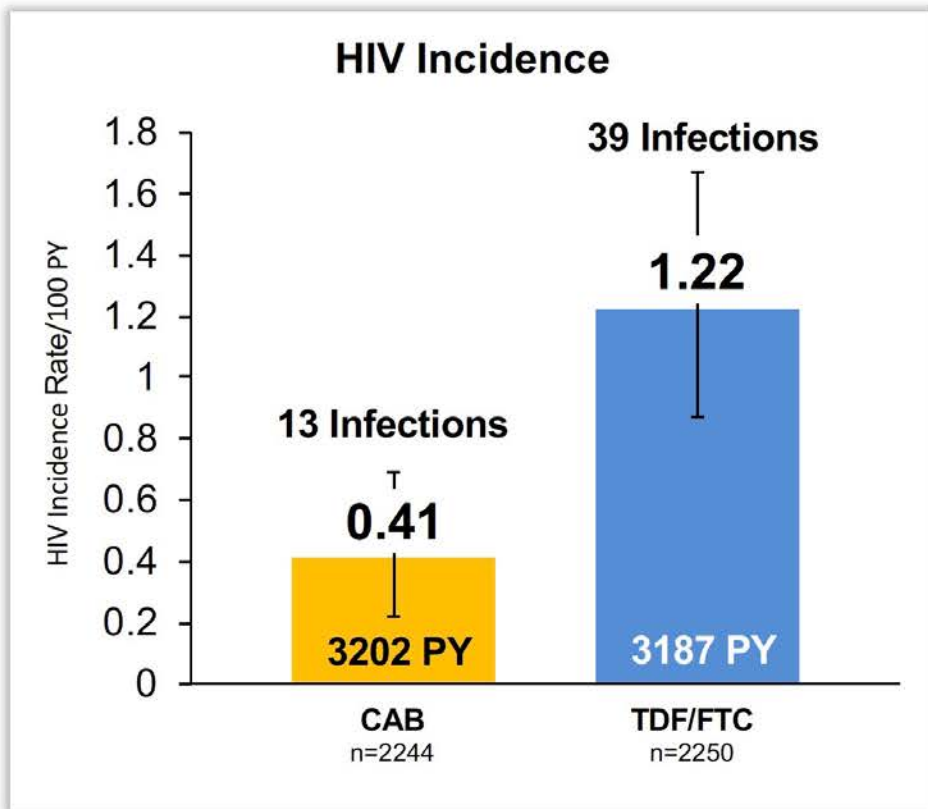


and it appears to be
“forgiving” in PK modeling



HPTN 083

Oral FTC/TDF vs Injectable CAB-LA for MSM & TGW



CI, confidence interval

52 infections
6389 PY of follow-up

Landovitz RJ, et al. AIDS 2020. Abstract OAXLB01

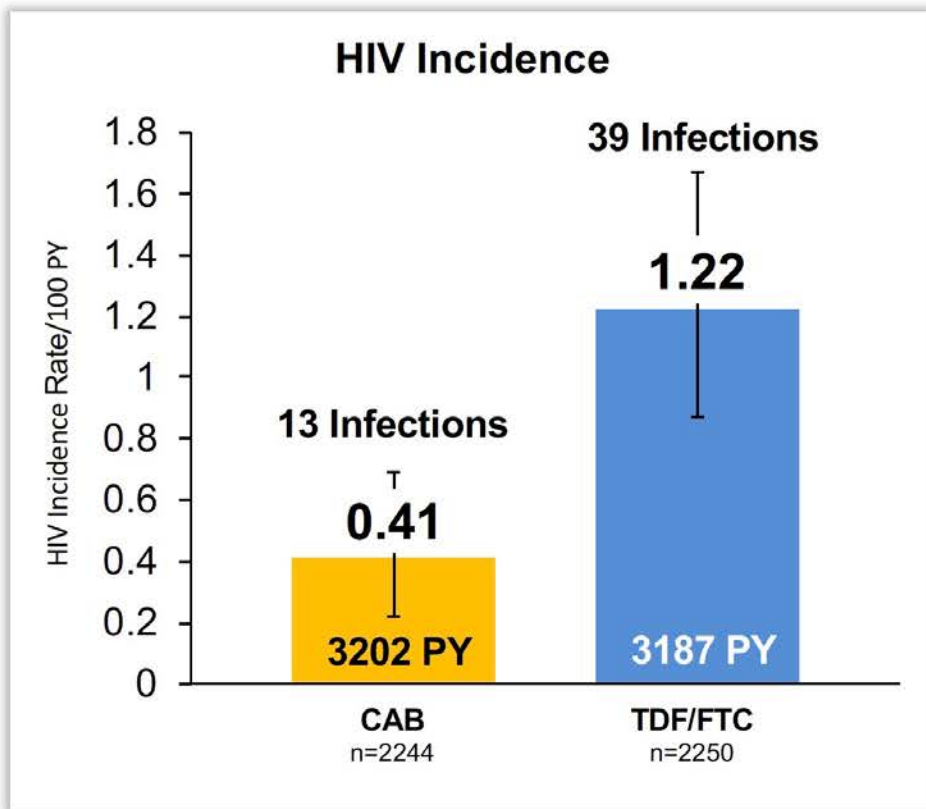
Landovitz RJ, et al. N Engl J Med. 2021 Aug 12;385(7):595-608

HPTN 083

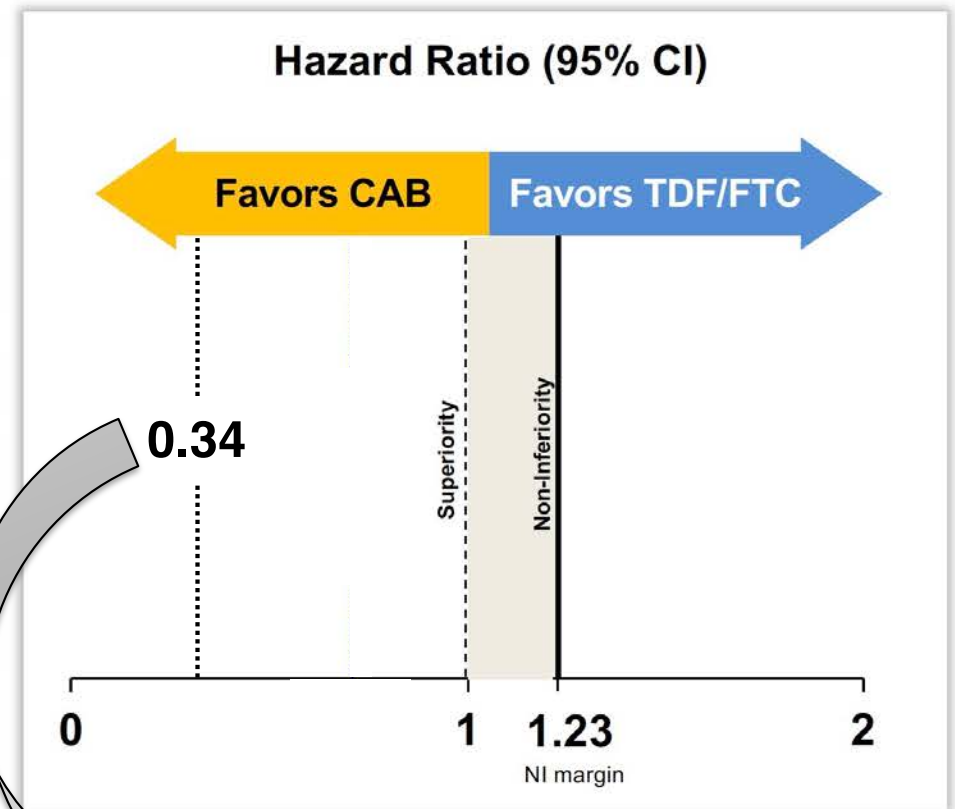
Oral FTC/TDF vs Injectable CAB-LA for MSM & TGW



IM CAB-LA was statistically superior to oral FTC/TDF for preventing HIV



CI, confidence interval



52 infections
6389 PY of follow-up

66%

reduced hazard of HIV among CAB recipients, compared with FTC/TDF (95%CI: 18%, 62%; p=0.0005)

Landovitz RJ, et al. AIDS 2020. Abstract OAXLB01

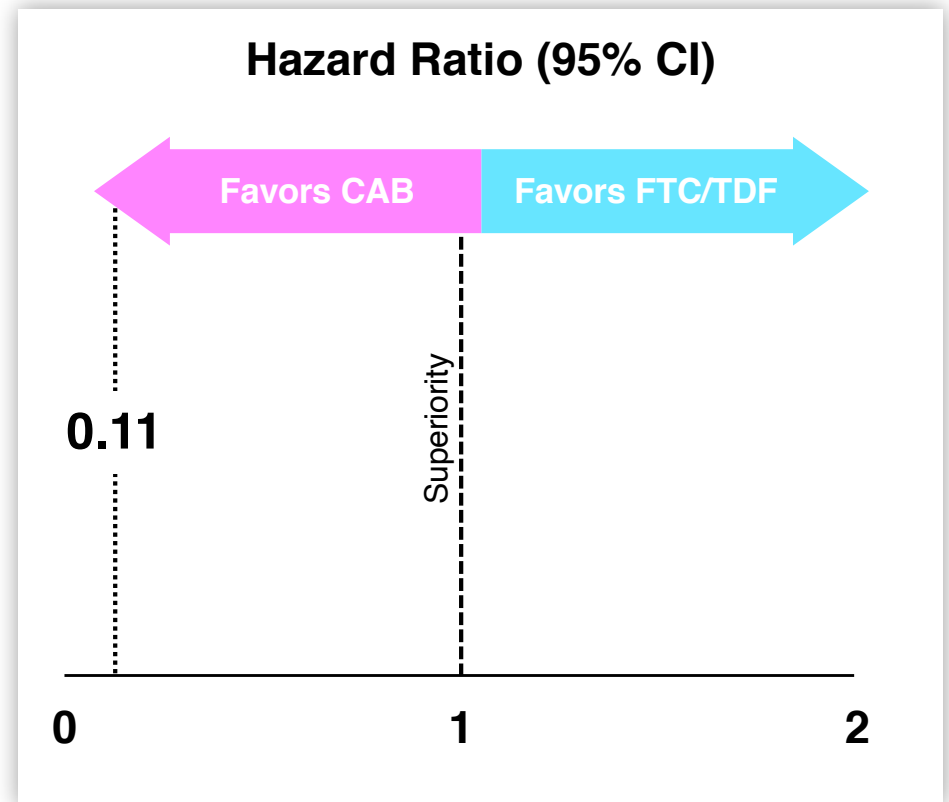
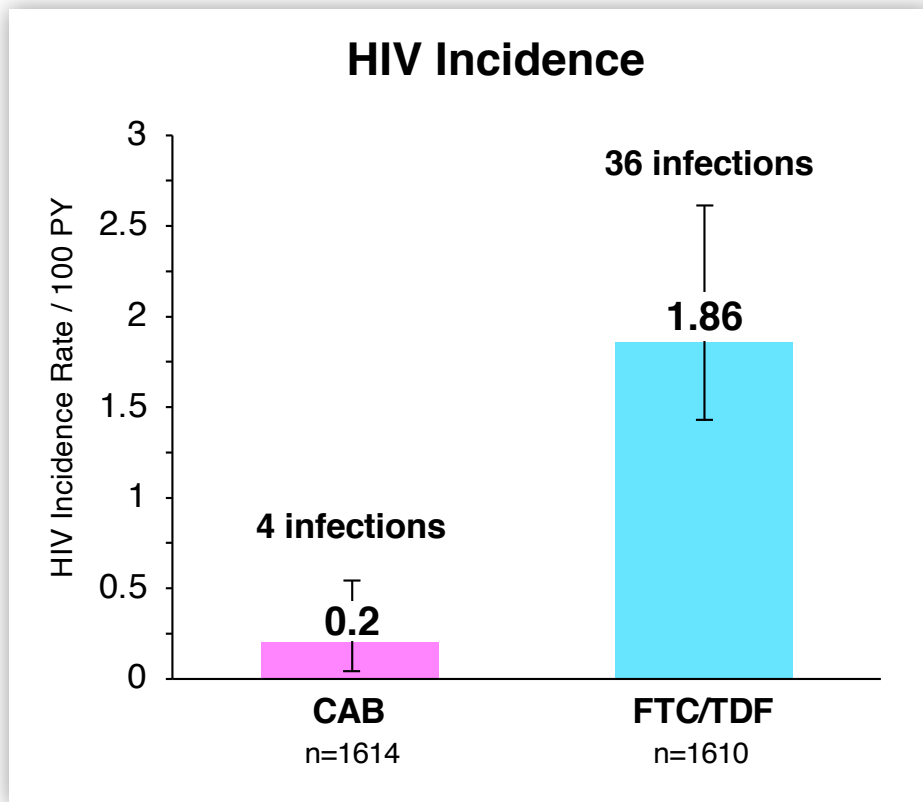
Landovitz RJ, et al. N Engl J Med. 2021 Aug 12;385(7):595-608

HPTN 084

Oral FTC/TDF vs Injectable CAB-LA for Cisgender Women



IM CAB-LA was statistically superior to oral FTC/TDF for preventing HIV



40 infections
3892 PY of follow-up

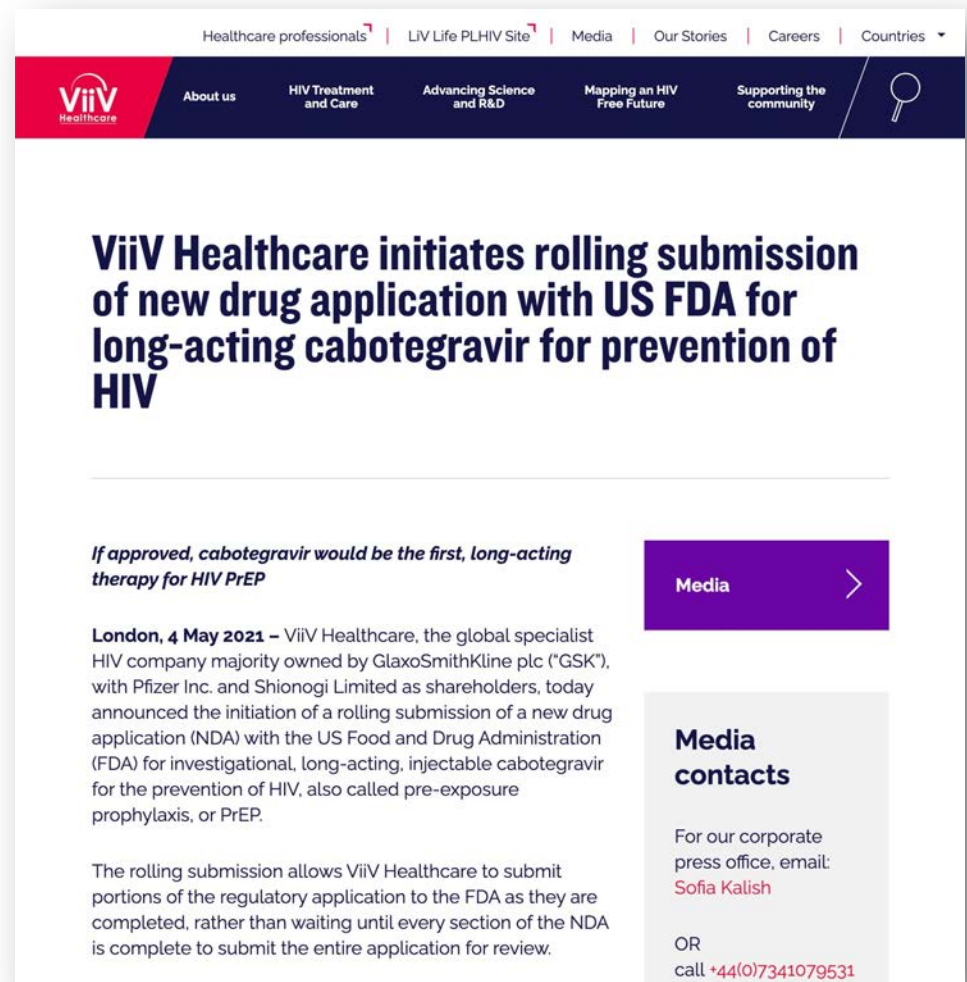
89%

reduced hazard of HIV among CAB recipients,
compared with FTC/TDF
(95%CI: 69%, 99%; p=0.000027)

Figures (re)constructed from data presented
in Delany-Moretlwe S, et al. R4P 2020. Abstract LB1479

What's the timeline for CAB?

- FDA submission opened May 2021
- Final elements submitted to FDA in summer 2021
- ViiV anticipates word from FDA by January 24, 2022
(but it could be December 2021)



The screenshot shows a news article on the ViiV Healthcare website. The header includes navigation links for 'Healthcare professionals', 'LIV Life PLHIV Site', 'Media', 'Our Stories', 'Careers', and 'Countries'. The main navigation bar features the ViiV Healthcare logo and links for 'About us', 'HIV Treatment and Care', 'Advancing Science and R&D', 'Mapping an HIV Free Future', and 'Supporting the community'. The article title is 'ViiV Healthcare initiates rolling submission of new drug application with US FDA for long-acting cabotegravir for prevention of HIV'. A sub-headline reads 'If approved, cabotegravir would be the first, long-acting therapy for HIV PrEP'. The main text, dated 'London, 4 May 2021', states that ViiV Healthcare, a global specialist HIV company majority owned by GlaxoSmithKline plc ('GSK'), with Pfizer Inc. and Shionogi Limited as shareholders, has announced the initiation of a rolling submission of a new drug application (NDA) with the US Food and Drug Administration (FDA) for investigational, long-acting, injectable cabotegravir for the prevention of HIV, also called pre-exposure prophylaxis, or PrEP. A 'Media' button with a right arrow is positioned to the right of the sub-headline. Below the main text, there is a 'Media contacts' section with the contact information for Sofia Kalish, including an email address and a phone number (+44(0)7341079531).

Healthcare professionals | LIV Life PLHIV Site | Media | Our Stories | Careers | Countries

ViiV Healthcare | About us | HIV Treatment and Care | Advancing Science and R&D | Mapping an HIV Free Future | Supporting the community

ViiV Healthcare initiates rolling submission of new drug application with US FDA for long-acting cabotegravir for prevention of HIV

If approved, cabotegravir would be the first, long-acting therapy for HIV PrEP

Media >

Media contacts

For our corporate press office, email: [Sofia Kalish](mailto:Sofia.Kalish@viiV.com)

OR
call [+44\(0\)7341079531](tel:+44(0)7341079531)



STOP AIDS

Questions?

Please email me!

Christopher Hurt, MD
churt@med.unc.edu