



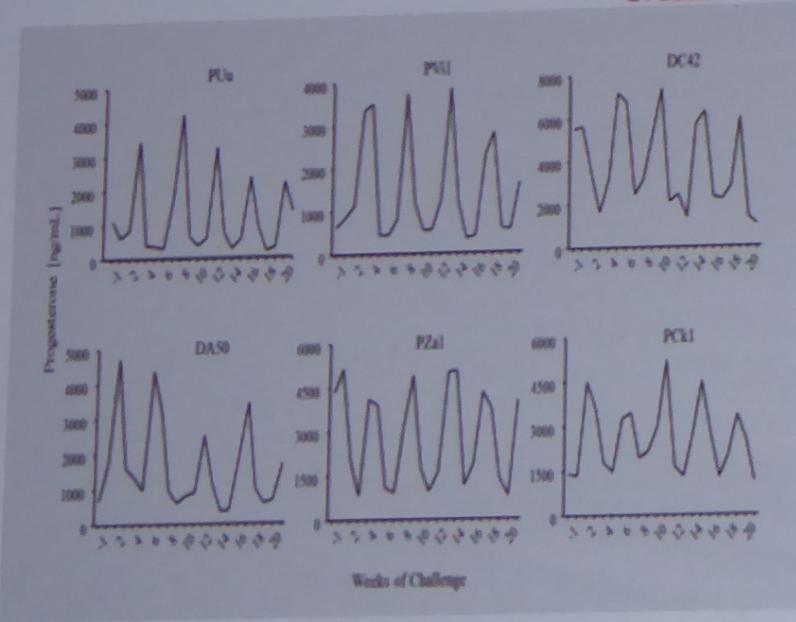
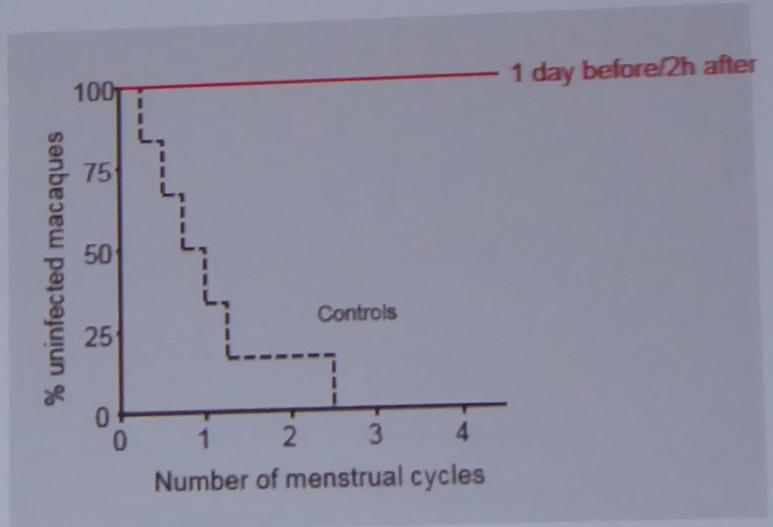
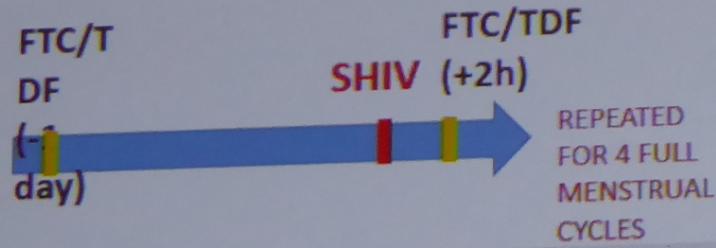
Quelle PrEP pour quels PrEPeurs ?

Dr Jade GHOSN

Situation (1)

- Femme, 26 ans
- Vient de commencer à se prostituer
- Dit que la plupart de ses clients demandent, voire « exigent » des rapports sans préservatif
- Information et explications données sur la PrEP en continu
- Très déstabilisée par la période de 21 jours avant d'être « protégée » par la PrEP

Efficacy of "on demand" oral PrEP against vaginal SHIV infection in macaques

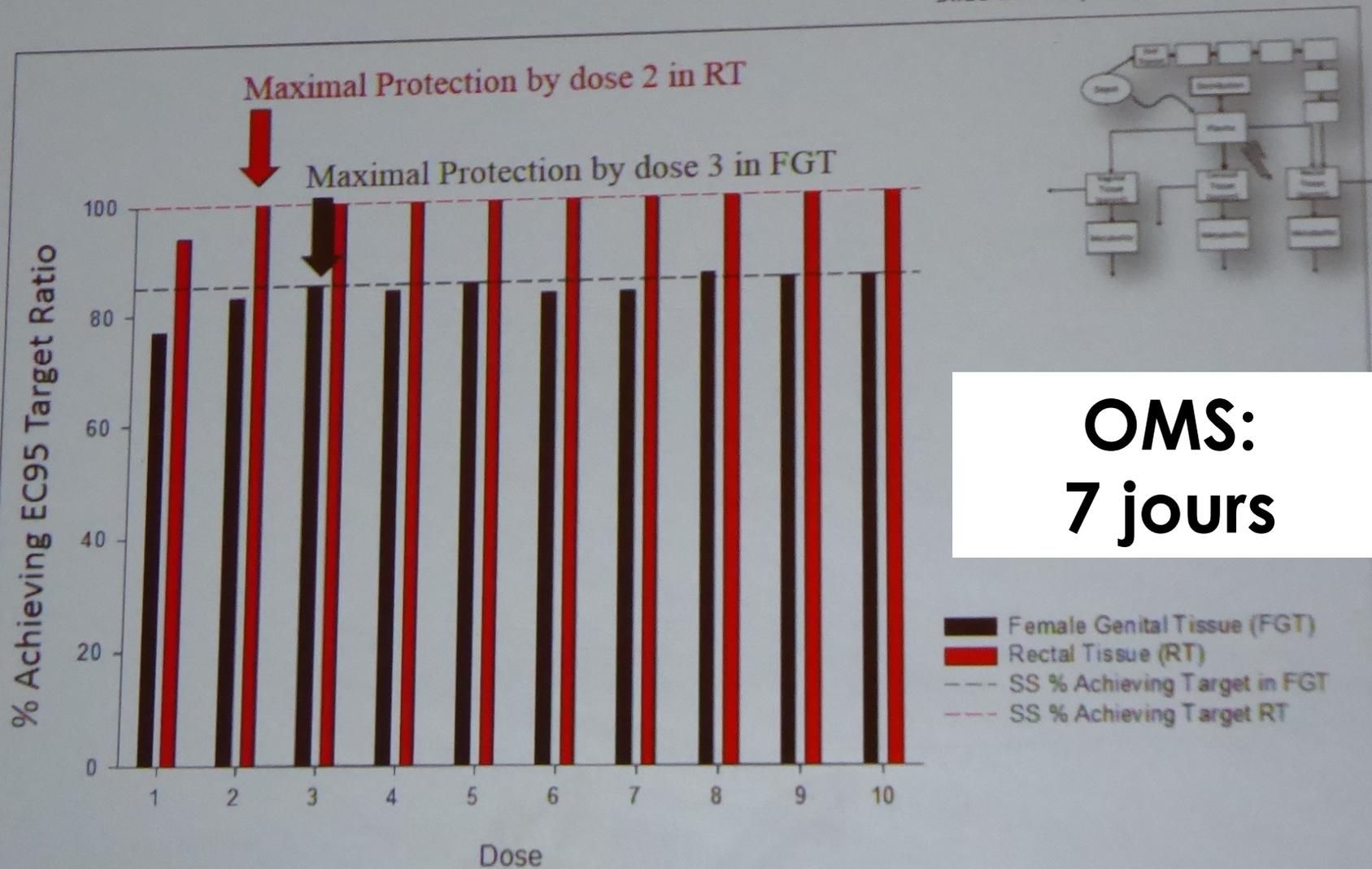


Radzio et al., PLoS One 2012

Steady state in Oral Truvada dosing

Time To Maximal Protection; Daily Dosing with Truvada®

Cottrell et al J Infect Dis. 2016 Jul 1;214(1):55
Slide courtesy: Angela Kashuba



**OMS:
7 jours**

Daily and non-daily pre-exposure prophylaxis in African women (HPTN 067/ADAPT Cape Town Trial): a randomised, open-label, phase 2 trial *Lancet HIV*. 2018 Feb;5(2):e68-e78. d

Clinda Cull Dalton, Susha Bawa, Claire Scherzer, Muzenda Taba, E Khosi Anzila, James P Douglas, Mark A Mbororo, Cindy W Hladik, Peter C Anderson, Marissa E Burns, Michael Terezi, James F Rooney, Lashia Pendergast-Manning, Susan D Callaway, Lameck M Kanyo, Muel G Jansen, Robert M Lurie, on behalf of the HPTN 067/ADAPT study team

Optimal Timing of PrEP For Women

TDF-FTC
Daily



vs time-driven (2x/wk + post sex)
vs event-driven (pre-post sex)

- Randomized 178 sero-negative women to oral daily (n=59), time-driven (twice weekly+post-sex) (n=59), or event-driven (pre-post sex) (n=60) PrEP.

	Daily PrEP	Time-driven PrEP	Event-driven PrEP
Coverage sex act	75%	56%	51%
Adherence	75%	65%	53%
TFV detected if sex reported past week	68%	58%	41%
Seroconversions	0	2	2

- **Daily dosing** resulted in good adherence (higher drug levels) & better **coverage** of sex acts, compared to intermittent use.

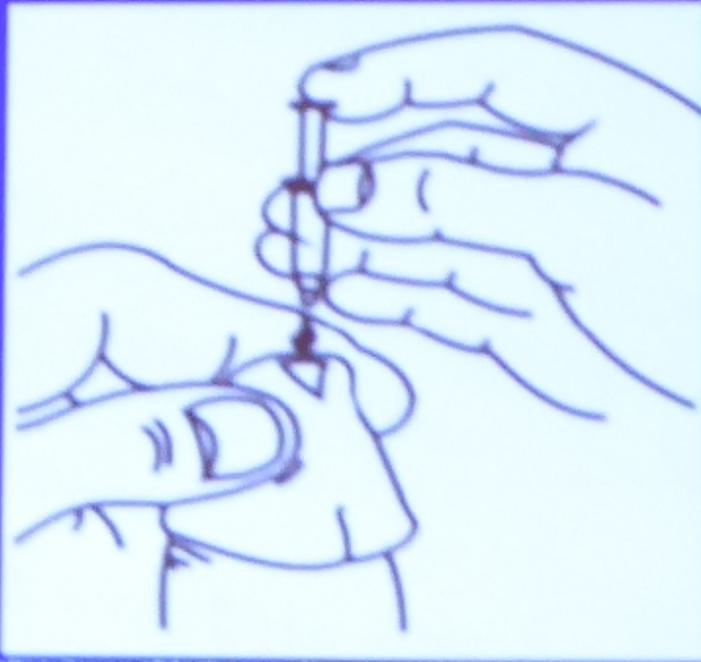
Daily dosing may foster better habit formation and provide the most forgiveness for missed doses at observed adherence levels.

Situation (2)

- Homme, 47 ans, hétérosexuel
- Voyage à l'étranger 1 à 2 jours par mois
- Rappports sexuels avec des « escort-girls » lors de ces séjours courts à l'étranger, pas toujours protégés par préservatif
- A entendu parler de la PrEP « à la demande », très intéressé
- AMM : en continu
- BUM HAS : intermittent « n'a été étudié que chez les HSH »

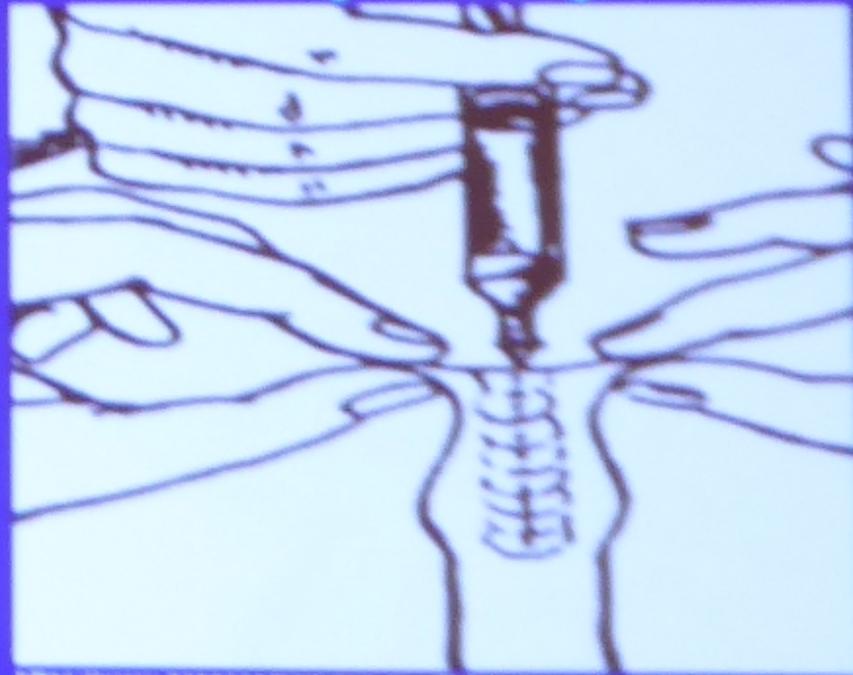
No-contact inoculation

Urethra



<http://www.slideshare.net/rasocuma/vitaros-presentation>

Prepuce pouch

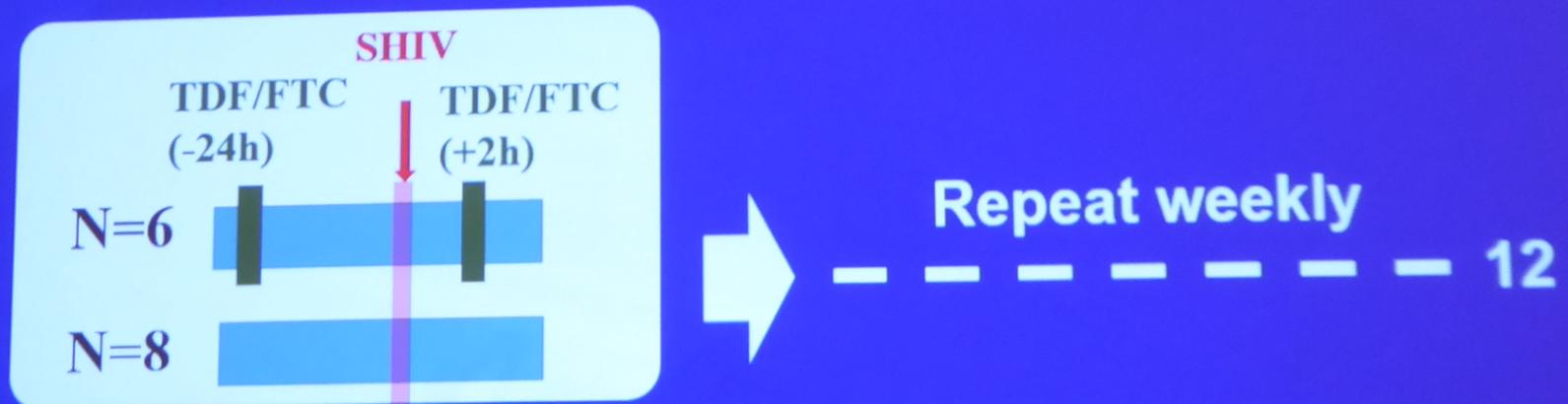


<http://www.accessmedicine.com>

Garber D et al., submitted

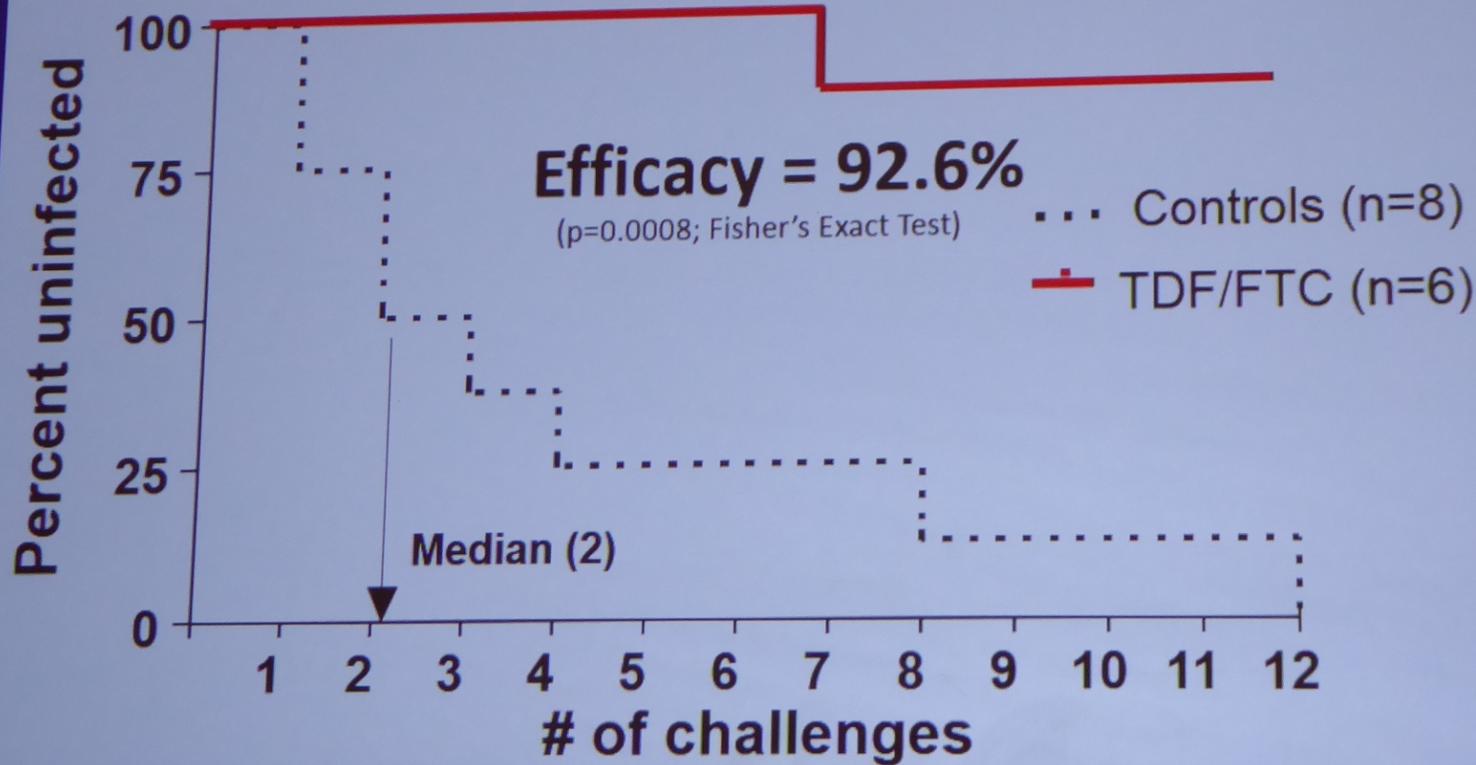
Model validation

- Efficacy of human-equivalent doses of TDF/FTC
 - Same study design that demonstrated high efficacy of TDF/FTC against rectal and vaginal exposure
 - TDF/FTC (22/20 mgkg⁻¹) administered by oral gavage 24h before and 2h after SHIV exposure
- Challenge once per week (12 weeks); 20 week washout



Efficacy of oral TDF/FTC

Survival Estimates



HR=10.07
(Log-Rank p=0.032)