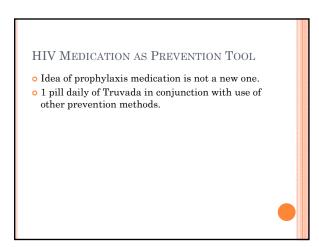
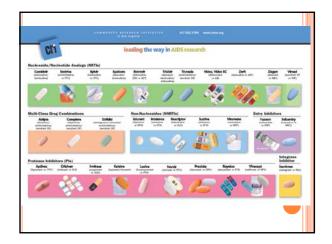
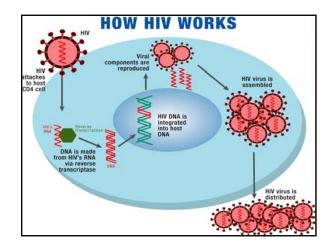
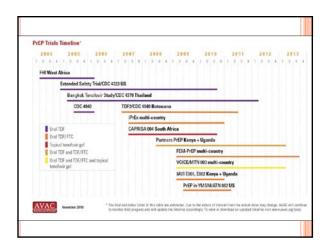


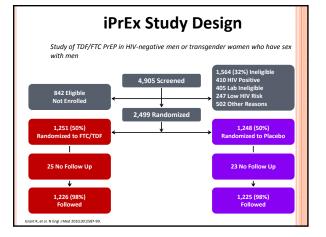
ESTIMATED RISK OF SEROCONVERSION BY SEXUAL ACT	
Type of Contact	Approximate Risk of Transmission
Receptive anal	1-30%
Insertive anal or receptive vaginal	0.1-10%
Insertive vaginal	0.1-1%
	Landovitz NEJM 2009

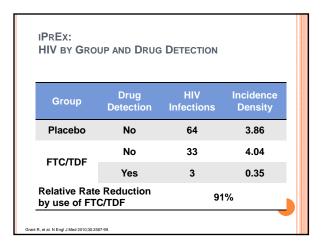


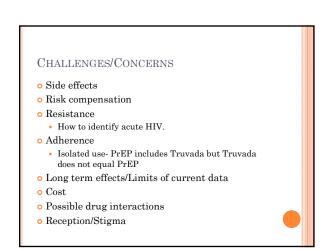












SIDE EFFECTS

- GI symptoms
- Renal issues
- Liver-Hepatitis challenge
- ${\scriptstyle \circ}$ Bone density
- Long term effects?

RISK COMPENSATION

- Not seen in trials
- Opposite was noted.

RESISTANCE

- Resistance rare (consistent with subjects who acquired HIV not taking PrEP)
 - Exception: those with undiagnosed (seronegative) acute HIV infection at time PrEP was initiated
- Acute seroconversion

PREP SAFETY

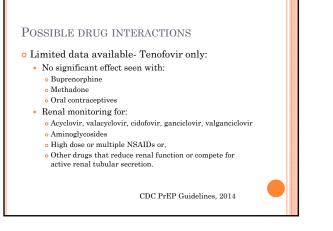
- Rates of death, serious adverse events, and laboratory abnormalities (including renal dysfunction) low and not significantly different between those taking PrEP and those taking placebo
- PrEP was well tolerated
 - Adverse effects occurred in minority of subjects
 - GI adverse effects (eg, nausea) more common in those receiving PrEP than placebo
 - Occurred in < 10% and primarily during the first month only (PrEP "start up" symptoms)
- PrEP associated with a small change (~ 1%) in bone mineral density but without increased risk of fracture

LIMITATIONS OF CURRENT DATA Long-term adherence to PrEP and long-term health effects of TDF/FTC in HIV-negative persons and HIV seroconverters not known Adherence, risk behavior, and PrEP interest likely to be different now that PrEP HIV protection benefits known

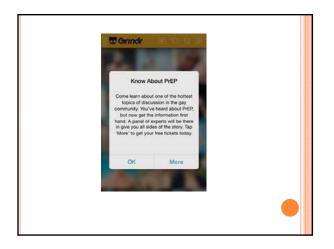
Cost

${\color{blue}\circ}~{\color{blue}\sim}\$1800/{\color{blue}month}$

- Most insurance companies cover PrEP.
 - Co-pay can vary due to deductible/plan type.
- Assistance plans are available.







THE BIRTH CONTROL CONNECTION

- One of many options that will need to be revisited through their sexual livesBirth control model- one size does NOT fit all, that's why there are so many typesFertility awareness
 Condoms
 - Pills
 - Ring
 - ning
 Injections
 - ... to name a few.

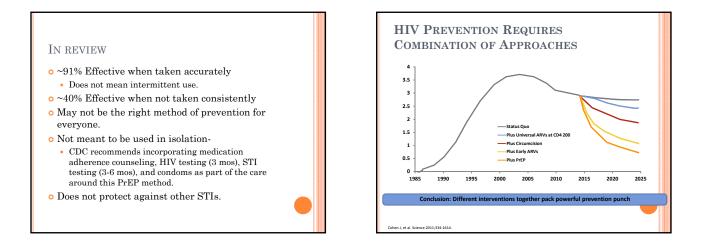
CDC GUIDELINES

- Indications for PrEP use by MSM*-
 - Adult male
 - Without acute or ongoing HIV infection
 - Any male sex partners in last 6 months*
 - Not in a monogamous relationship with a recently tested HIV negative male
 - AND one of the following
 - Any anal sex (receptive/insertive) without a condom is last 6 months
 - Any STI diagnosed/reported in the last 6 months
 - Is in an ongoing relationship with an HIV positive male.

MONITORING AND FOLLOW UP

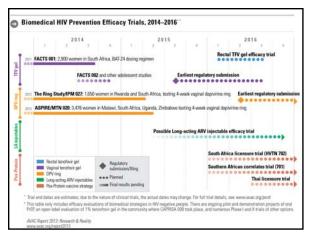
• Initial serology-

- HIV test, Renal and hepatic (specifically looking for HBV) evaluation.
- Every three months*-
 - Repeat HIV test, assess for acute HIV, assess adherence, refill script, continue risk reduction education.
- Every six months-
 - Assess renal function, STI testing.
- Every 12 months-
 - Evaluate sexual health and HIV prevention needs





- PrEP for other populations- PrEP adolescent trials
- Intermittent use of Truvada.
- Other drug combinations.
- Mode of delivery- injectable prep.
- RAI specific condoms.
- Other avenues of medication
 - Microbicides
 - Medicated lubricants and gels
 Medicated vaginal ring- ARVs, plus contraception.

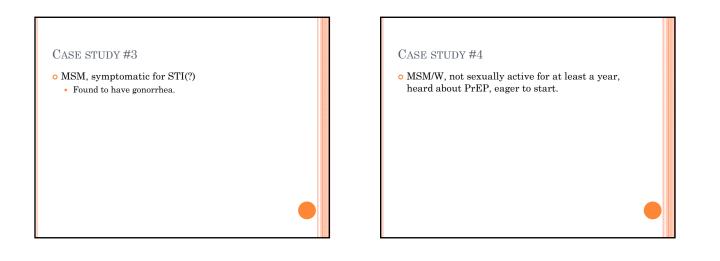


CASE STUDY #1

• 22 y/o MSM, has used PEP twice, moderate condom use. Small group of regular partners- all get tested regularly. Versatile. One of his partners mentioned PrEP.

CASE STUDY #2

• 21 y/o trans woman, here to start PrEP, found to have HIV on initial labs.



CASE STUDY #5

 ${\rm \circ}$ MSM in sexually monogamous relationship with partner of 2 yrs who is HIV positive. Partner is on ARVs medication, and has undetectable VL.

References

- 22451668 CDC PrEP Guidelines- http://www.cdc.gov/hiv/prevention/research/prep/ HIV med chart-<u>www.crine.org</u> <u>https://www.uscf.edu/news/2013/12/110831/no-link-between-hiv-prevention-pill-truvada-and-increased-sexual-risk-behavior</u>
- <u>uns:increased-sexual-radk-behavior</u> <u>http://mvreexperience.bkeepat.com/2014/03/i-am-truvada-where-html</u> <u>http://mvreexperience.bkeepat.com/2014/i-am-truvada-where-html</u> <u>http://mvreexperience.bkeepat.com/2014/i-am-truvada-where-html</u> <u>http://mvreexperience.bkeepat.com/2014/i-am-truvada-where-html</u> <u>http://mvreexperience.bkeepat.com/2014/i-am-truvada-where-html</u> <u>http://mvreexperience.bkeepat.com/2014/i-am-truvada-where-html</u> <u>http://mvreexperience.bkeepat.com/2014/i-am-truvada-where-html</u> <u>http://mvreexperience.bkeepat.com/2014/i-am-truvada-where-html</u> <u>http://mvreexperience.bkeepat.com/2014/i-am-truvada-where-html</u> <u>http://mvreexperience.bkeepat.com/2014/i-am-truvada-where-html</u> <u>http://mvreexperience.bkeepat.com/2014/i-am-truvada-where-ht</u>