





<ul> <li>Objectives</li> <li>Define PrEP</li> <li>Discuss current research studies</li> <li>List populations that would benefit from PrEP</li> <li>Describe the benefits and challenges</li> <li>Identify the elements of a 'PrEP</li> </ul>
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<ul> <li>package'</li> <li>Discuss the nurses role in PrEP</li> </ul>





























## CDC – TDF-2

- Double blind, placebo-controlled study in Botswana
- □ 18-39 year old, heterosexual, sexually-active
- □ 1200 followed over time (45% women)

	TDF/FTC	Placebo		
Ν	601	599		
Lost to f/u	9%	10%		
New HIV infections	9	24	Protective efficacy 63% (21%, 83%) p=0.0133	
<ul> <li>No safety</li> <li>No different</li> </ul>	differences nces by sex	Thigpen, abstract WELBC01		

## Partners PREP

- 4758 serodiscordant couples in Kenya and Uganda
- HIV- 38% women, 62% men; 98% married
- □ 95% retention; 97% adherence

□ unprotected sex 27% at baseline and ↓ during

	TDF	TDF/FTC	placebo	
N	1584	1579	1584	
HIV infections	18	13	47	
Protective efficacy (vs. placebo)	62% (34%, 78%) p=0.0003	73% (49%, 85%) p=<0.0001		P=0.18 TDF vs. TDF/FTC
No diffe	erence in Al	E, lab abno B	rmalities, o	leaths t MOAX0106

Maraviroc for PREP: Advantages
Entry inhibitor
MVC safety profile X 5 years
MVC achieves high tissue levels
<ul> <li>3X higher in vaginal secretions Dumond JAIDS 2009</li> </ul>
8-26X higher in rectal tissue Brown JID 2011
MVC prevented HIV infections in animal
model Neff PLoS One 2010;5:e15257
MVC drug resistance is uncommon
MVC used uncommonly for HIV treatment
MVC once-daily dosing possible
Kosario Brit J Clin Pharm 2008

HPTN 069: NEXT-PREP	
Design: Phase II, 4-arm, multisite, study	
Study population (N=400)	
<ul> <li>At-risk HIV-negative gay men in 12 U.S. cities</li> </ul>	
Study Treatment:	
MVC monotherapy	
MVC + FTC	
MVC + TDF	
TDF + FTC (control)	
Duration: 48 weeks	
Primary endpoint: Grade <u>&gt;</u> 3 toxicities; time to study treatment discontinuation	4







Mathematical Model
Over 5 years
780 (4%) = 4510 (23%)  of  19510  HIV
infections
Result: HIV Chemoprophylaxis among high
risk MSM in a major US city could prevent a
cost effective
Modeling the impact of HIV chemoprophylaxis strategies among men
and cost effectiveness















Nursing Implications: Assess for risk	
<ul> <li>Man &gt; 18 yo</li> <li>Without acute HIV or established HIV</li> <li>Any male sexual partner in last year</li> <li>Not in a monogamous relationship AND</li> <li>Inconsistent condom use in past year</li> <li>STI diagnosis</li> <li>Operating any with UIV positive male</li> </ul>	
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