The Experts Square Off: Debating the Pressing HIV Issues of 2011

Thursday, October 20th, 2011 8:00 PM - 10:00 PM Boston, MA

Jointly Sponsored by The Postgraduate Institute for Medicine and ViralEd, LLC. Supported by an unrestricted educational grant from Gilead Sciences.

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PrEP: The Time Is Now – Con David Wohl, MD

DISCLAIMER

Participants have an implied responsibility to use the newly acquired information to enhance patient outcomes and their own professional development. The information presented in this activity is not meant to serve as a guideline for patient management. Any procedures, medications, or other courses of diagnosis or treatment discussed or suggested in this activity should not be used by clinicians without evaluation of their patient's conditions and possible contraindications on dangers in use, review of any applicable manufacturer's product information, and comparison with recommendations of other authorities.

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AGENDA

Welcome and Introductions (John Bartlett, MD and Edwin DeJesus, MD)

Debate 1 When to Start: The Earlier, The Better (Paul Sax, MD vs. Charles Hicks, MD)

Debate 2 What to Start: Efavirenz/Tenofovir/EmtricitabineTablet Is Still King (Trevor Hawkins, MD vs. Judith Feinberg, MD

> Debate 3 PrEP: The Time Is Now (Ian Frank, MD vs. David Wohl, MD)

Closing Comments (John Bartlett, MD and Edwin DeJesus, MD)

Program Note: Each debate will be followed by a rebuttal and discussion by **Calvin Cohen, MD** and **Joseph Eron, MD** and a panel and audience discussion.

COURSE DIRECTORS

John Bartlett, MD Professor of Medicine, Johns Hopkins School of Medicine Baltimore, Maryland

Calvin J. Cohen, MD, MS

Research Director, CRI New England Clinical Instructor, Harvard Medical School Boston, Massachusetts

Joseph Eron, MD

Professor, University of North Carolina School of Medicine Chapel Hill, North Carolina

FACULTY Judith Feinberg, MD

Professor of Medicine, Associate Chair of Medicine for Faculty Development, University of Cincinnati College of Medicine Cincinnati, Ohio

lan Frank, MD

Professor of Medicine, Director, Antiretroviral Clinical Research University of Pennsylvania Philadelphia, Pennsylvania

Trevor Hawkins, MD

Associate Clinical Professor, Department of Family Practice University of New Mexico Medical Director, Southwest C.A.R.E. Santa Fe, New Mexico

Paul Sax, MD

Clinical Director, Brigham and Women's Division of Infectious Diseases and HIV Program Associate Professor of Medicine, Harvard Medical School Boston, Massachusetts

Charles Hicks, MD

Professor of Medicine, Department of Infectious Diseases, Duke University Medical Center Durham, North Carolina

David Wohl, MD

Associate Professor of Medicine, Division of Infectious Diseases The University of North Carolina School of Medicine Co-Director of HIV Services for the North Carolina Department of Corrections Chapel Hill, North Carolina

Edwin DeJesus, MD

Medical Director Orlando Immunology Center Orlando, Florida

TARGET AUDIENCE

This activity is intended for physicians, physician assistants, advanced practice nurses, and other health care professionals involved in the treatment and management of patients with HIV infection.

PROGRAM OVERVIEW

The treatment of people with HIV infection is rapidly and constantly progressing as research that is published and presented at major scientific congresses leads to the use of new drugs and clinical strategies. However, clinicians are not always able to keep up with this flood of new information, and some clinical decisions must be made based on research that is open to interpretation. To address this problem, this program will have a panel of experts present and debate the studies and data that support different clinical options and strategies, which will allow the audience to assess the relative merits of various positions.

This meeting will use patient case vignettes to set up debates on the most pressing and controversial issues pertaining to treatment of HIV and show how national thought leaders approach the difficult choices involved. The outcome of this program will be that clinicians who treat patients with HIV infection will have an improved understanding of the various data s upporting different views of complex clinical controversies and the enhanced knowledge and confidence needed to improve care and outcomes in patients with HIV infection.

FEE INFORMATION

There is no fee for this educational activity.

A statement of credit will be issued only upon receipt of a completed activity evaluation form and will be e-mailed to you within 3 weeks.

PROGRAM OBJECTIVES

Upon completion of the program, participants should be able to:

- Explain when it is appropriate to start ARV therapy;
- Discuss various options for initiating ARV therapy in treatment-naïve patients;
- Identify the use of new or novel ARV therapies and regimens;
- Describe sequencing and switching ARVs in various patient scenarios;
- Appraise the use of PrEP to prevent HIV infection in at-risk populations.

ACCREDITATION STATEMENT

This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education through the joint sponsorship of the Postgraduate Institute for Medicine and ViralEd, LLC. The Postgraduate Institute for Medicine is accredited by the ACCME to provide continuing medical education for physicians.

CREDIT DESIGNATION STATEMENT

The Postgraduate Institute for Medicine designates this live activity for a maximum of 2.0 AMA PRA Category 1 Credits[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

DISCLOSURE OF UNLABELED USE

This educational activity may contain discussion of published and/or investigational uses of agents that are not indicated by the FDA. The Postgraduate Institute for Medicine (PIM), ViralEd, LLC and Gilead Sciences do not recommend the use of any agent outside of the labeled indications.

The opinions expressed in the educational activity are those of the faculty and do not necessarily represent the views of PIM, ViralEd, LLC and Gilead Sciences. Please refer to the official prescribing information for each product for discussion of approved indications, contraindications, and warnings.

DISCLOSURE OF CONFLICTS OF INTEREST

The Postgraduate Institute for Medicine requires instructors, planners, managers and other individuals who are in a position to control the content of this activity to disclose any real or apparent conflict of interest they may have as related to the content of this activity. All identified conflicts of interest are thoroughly vetted by The Postgraduate Institute for Medicine for fair balance, scientific objectivity of studies mentioned in the materials or used as the basis for content, and appropriateness of patient care recommendations.

The *faculty* reported the following financial relationships or relationships to products or devices they or their spouse/life partner have with commercial interests related to the content of this CME activity:

John Bartlett, MD:

Consulting Fees: Medscape; UpToDate; Epocates

Calvin Cohen, MD:

Contracted Research: Bristol-Myers Squibb; Gilead; Merck & Co.; Janssen; ViiV Consulting Fees: Bristol-Myers Squibb; Gilead; Merck & Co.; Janssen; ViiV

Edwin DeJesus, MD:

Contracted Research: Abbott; Achillion; Avexa; Boehringer Ingelheim; Bristol-Myers Squibb; Gilead; GlaxoSmithKline; Hoffman LaRoche; Merck; Pfizer; Schering Plough; Taimed; Tobira; Tibotec; Vertex Consulting Fees/Speakers Bureau: Bristol-Myers Squibb; Gilead; GlaxoSmithKline; Merck; Tibotec

Joseph Eron, MD:

Research Grants to the University of North Carolina (PI): Merck; GlaxoSmithKline/ViiV; Tobira Consulting Fees: Argos; Gilead; GlaxoSmithKline/ViiV;

Merck; Tibotec; Tobira

Judith Feinberg, MD

Contracted Research: BMS; Boehringer Ingelheim; GSK/ViiV; Janssen; Tobira; Roche Consulting Fees: Janssen; GSK/ViiV Speakers Bureau: BMS; GSK/ViiV; Janssen; Merck

lan Frank, MD:

Contracted Research: GlaxoSmithKline Consulting Fees: Gilead; Tibotec

Trevor Hawkins, MD:

Contracted Research: Gilead; GlaxoSmithKline; Janssen; Vertex; Salix Consulting Fees: Gilead; Janssen Speakers Bureau: BMS; Gilead; Janssen; Merck; Vertex

Charles Hicks, MD:

Contracted Research: Argos; Bristol-Myers Squibb; Gilead; Janssen; Merck; ViiV

Consulting Fees: Bristol-Myers Squibb; Gilead; Janssen; Merck; ViiV

Paul Sax, MD:

Contracted Research: BMS; Gilead; GSK; Merck; Tibotec Consulting Fees: Abbott; BMS; Gilead; GSK; Merck; Tibotec

David Wohl, MD:

Contracted Research: GlaxoSmithKline; Merck & Co. Consulting Fees: Gilead; Tibotec

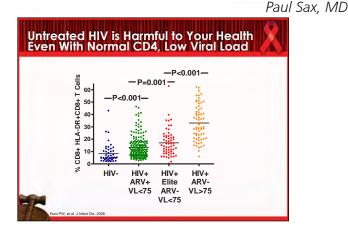
The *planners and managers* reported the following financial relationships or relationships to products or devices they or their spouse/life partner have with commercial interests related to the content of this CME activity:

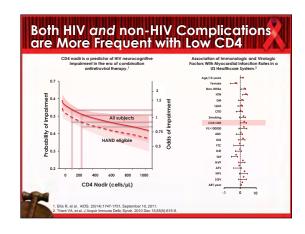
The following planners and managers, Jan Hixon, RN, BSN, MA; Trace Hutchison, PharmD; Julia Kimball, RN, BSN; Samantha Mattiucci, PharmD; Jan Schultz, RN, MSN, CCMEP; Patricia Staples, MSN, NP-C, CCRN; hereby state that they or their spouse/life partner do not have any financial relationships or relationships to products or devices with any commercial interest related to the content of this activity of any amount during the past 12 months.

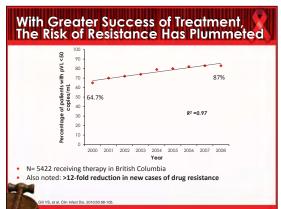
The Experts Square Off: Debating the Pressing HIV Issues of 2011

When to Start: The Earlier, The Better – Pro

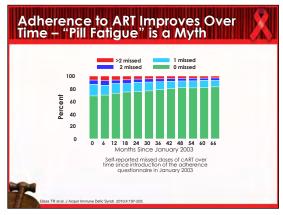






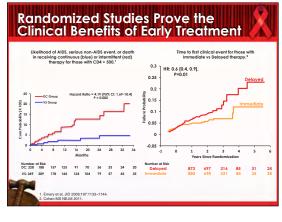


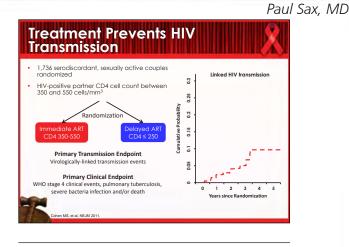
Years Prior to Initiation of ART



The Experts Square Off: Debating the Pressing HIV Issues of 2011

When to Start: The Earlier, The Better - Pro



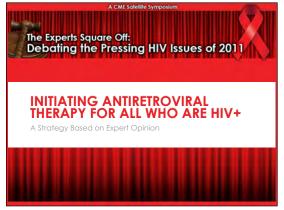


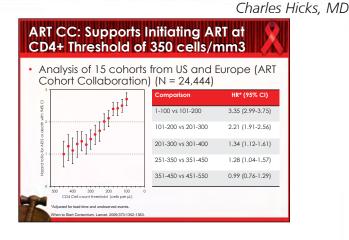
When to Start: Conclusions

- Treatment benefits are extensive and proven
- These include:
 - Reduced inflammation and immune activation
 - Improved likelihood of normal CD4
 - Lower risk of HIV and non-HIV complications
 - Lower risk of resistance and adverse effects with current treatments
 - · Markedly lower risk of transmission to others



When to Start: The Earlier, The Better - Con





Cascade Collaboration: When is the Optimal to Start ARV Treatment?

- Evaluation of clinical benefit of HAART initiation vs. deferral in AIDS-free HAART-naïve HIV seroconverters with CD4 <800 cells/mm3 (N=9,455)
- After median 4.7 years follow-up, 812 (8.6%) developed AIDS and 544 (5.8%) died

CD4 Count cells/mm3)	Defer	Initiate	RD (95%CI)	NNT (95%CI)
)-49	46.6	16.6	-30.0 (-45.1, -15.0)	3 (2, 7)
50-199	20.7	5.7	-15.0 (-19.7, -10.3)	7 (5, 10)
200-349	10.3	5.5	-4.8 (-7.0, -2.6)	21 (14, 38)
350-499	6.3	3.4	-2.9 (-5.0, -0.9)	34 (20, 115)
00-799	4.9	5.2	0.3 (-3.7, 4.2)	80

NVT = number needed to treat to prevent 1 new case of AIDS or death within 3 Funk MJ, et al. 18th IAC: Vienna, July 18-23, 2010: Abst. THLBB201

Cardiovascular disease¹⁻⁴ Cardiovascular disease¹⁻⁴ Metabolic syndrome and diabetes Cancer (non-AIDS) Bone fractures/osteopenia^{5,6} Liver failure⁷ In part 1-40 member 066 Syndr 20200471477 Pripheral neuropathy Calculation of the syndrome and diabetes Pripheral neuropathy Cognitive decline⁸ Trailty⁹

Limitations of Antiretroviral Therapy

- HIV Persists despite suppressive therapy
- Full Life Expectancy is not restored
- Immune Recovery may be incomplete
- Immune Activation and Inflammation persist in many treated patients
- Long term toxicity; known and undiscovered
- Adherence to therapy remains a challenge
- Antiretroviral Drug Resistance
 - Failure, as yet, to decrease transmission

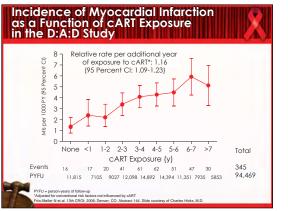
non-AIDS events with Increased Frequency in Treated HIV patients

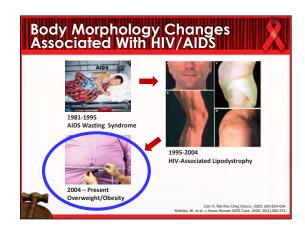
- Caused or exacerbated by antiretroviral therapy?
- Failure of therapy to fully suppress replication or control inflammation and activation?
- Increased classical risk factors in the population?
- Result of long periods of untreated infection?

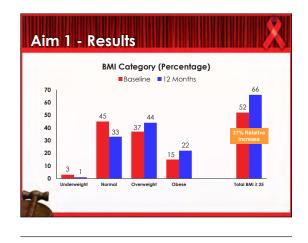
The Experts Square Off: Debating the Pressing HIV Issues of 2011

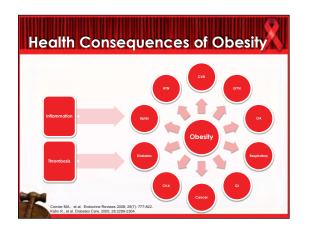
When to Start: The Earlier, The Better - Con

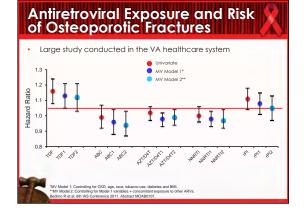










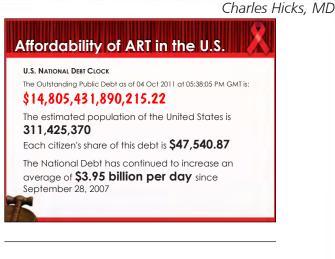


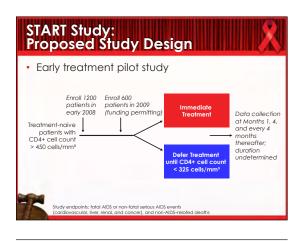
The opinions expressed by all participants in this program have been previously assigned and may not reflect their actual views and options.

Charles Hicks, MD

When to Start: The Earlier, The Better - Con





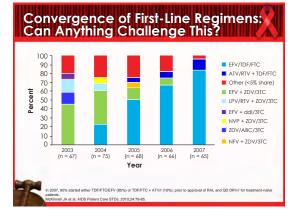


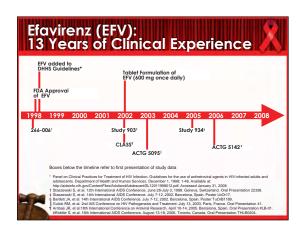
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What to Start: Efavirenz/Tenofovir/Emtricitabine Tablet Is Still King – Pro

Trevor Hawkins, MD







Cumulative Probability of Virologic Failure 0.8

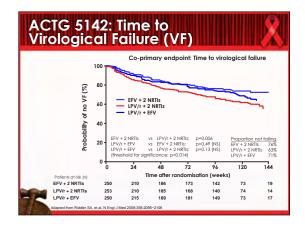
0.6

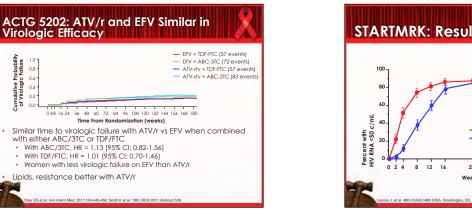
0.4

0.2

0.0

Lipids, resistance better with ATV/r



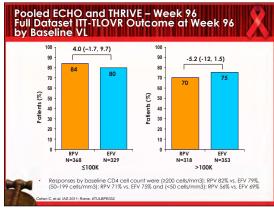


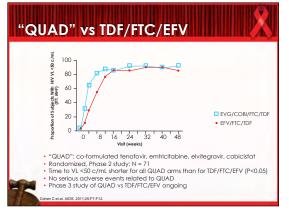
STARTMRK: Results 86% Non-inferiority p-Value <0.001 82% CD4 change: +189 cells/mm³ +163 cells/mm³ RAL + TDF/FTC EFV + TDF/FTO (95% CI: 4.47) 48 24 32 40 Weeks

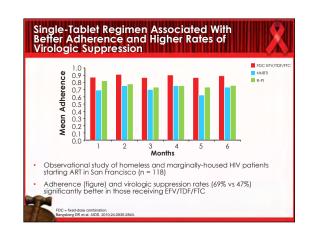
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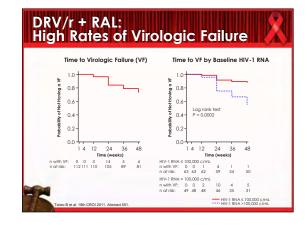
What to Start: Efavirenz/Tenofovir/Emtricitabine Tablet Is Still King - Pro

Trevor Hawkins, MD









The Experts Square Off: Debating the Pressing HIV Issues of 2011

What to Start: Efavirenz/Tenofovir/Emtricitabine Tablet Is Still King - Con

Judith Feinberg, MD



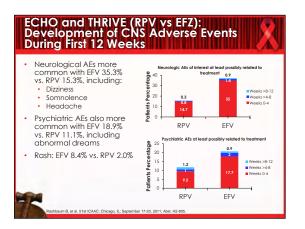




But is it the Best Tolerated, Safest Therapy?

- CNS effects, esp depression
- Teratogenicity
- Nephrotoxicity
- Bone toxicity (likely due to mod-severe proximal tubular dysfunction)

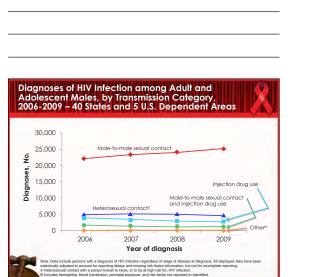
True incidence and extent of these problems is not evident from controlled clinical trials, but is becoming clearer in practice



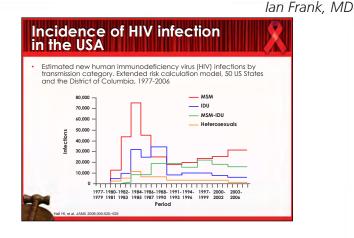


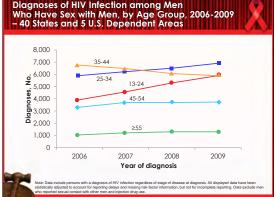
PrEP: The Time Is Now – Pro

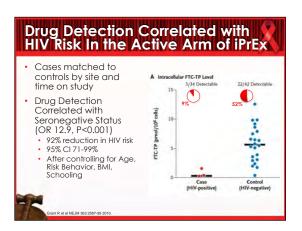




Trial	Pop.	Efficacy	95% CI
iPrEx ¹	MSM	42%	18 to 60%
Partners PrEP ²	Men	83%	49 to 94%
	Women	62%	19 to 82%
TDF2 ³	Men	80%	25 to 97%
	Women	49%	-22 to 81%
FemPREP ⁴	Women	*	







Diagnoses of HIV Infection among Men Who Have Sex with Men, by Age Group, 2006-2009 – 40 States and 5 U.S. Dependent Areas

PrEP: The Time Is Now - Pro

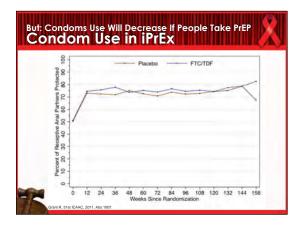
 TFV-DP and I 179 HIV- part 4 South Ame 	icipants a	t week 24 fr	om 2 US si	tes,
Factors	Associated with	h Detectable Drug	g Concentratio	ns
	Variable	% Detectable	Variable	% Detectable
Age	≥25	66	<25	37
Receptive anal sex	Within past 12 wk	71	No Sex	30
Site Location	US	97	Others	50
 Height, weight, or independently or Distribution of drawning 	orrelate with a	detection rate.	. ,	

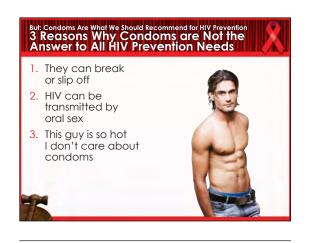
No Drug Resistance in iPrEx If HIV Acquired After Enrollment

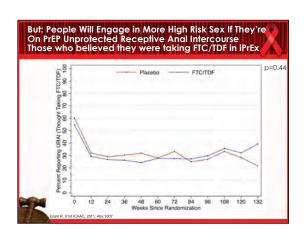
Ian Frank, MD

Genotypic Resistance	Infe	cted	Uninfe	
,	Placebo N=8	FTC/TDF N=2	Placebo N=83	FTC/TDF N=48
65R	0 (0%)	0 (0%)	0 (0%)	0 (0%)
70E	0 (0%)	0 (0%)	0 (0%)	0 (0%)
1841	0 (0%)	1 (50%)	0 (0%)	0 (0%)
184V	1 (13%)	1 (50%)	0 (0%)	0 (0%)
IDF Resistance	0 (0%)	0 (0%)	0 (0%)	0 (0%)
FTC Resistance	1 (13%)	2 (100%)	0 (0%)	0 (0%)

But: Condoms Are What We Should Recommend for HIV Prevention 3 Reasons Why Condoms are Not the Answer to All HIV Prevention Needs							
				ading f		Acqui	sition*
 They can break or slip off 	Pt	RO	10	RG	IG	RA	IA
	8	+	-	-	-	-	-
2. HIV can be	11	Ś	Ś	-	-	+	+
transmitted by	13	+	+	-	-	Ś	Ś
oral sex	14	+	+	-	-	+	+
	28	+	+	-	-	+	+
	38	+	+	-	-	-	-
	39	+	+	-	-	-	-
RO = receptive oral	51	+	-	-	+	-	-
IO = insertive oral	64F	-	-	+	-	-	-
RG = receptive genital	68	+	+	-	-	-	-
IG = Insertive gential RA = receptive anal	77	+	+	-	-	+	+
IA = insertive anal	83	+	+	-	-	-	+
Schacker T et al. Ann Intern Med 125:257-264, 1996	_						







PrEP: The Time Is Now – Pro

lan Frank, MD



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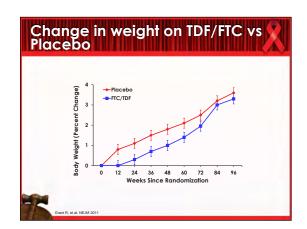
PrEP: The Time Is Now - Con

The Experts Square Off: Debating the Pressing HIV Issues of 2011	
PREP: THE TIME IS (NOT) NOW	
David Wohl, MD Associate Professor of Medicine The University of North Carolina School of Medicine	

OR HIV P								
	NE V I		CIV					
bgroup	FTC-TDF1	Nocebo	FTC-TDF	Placebo	Hazard R	atio (95% CI)		P value
	no. of p	atients	no. of	events				
Analysis								
Intention-to-treat	1251	1248	38	72		+	0.53 (0.36-0.78)	0.001
Modified intention-to-treat	1251	1248	36	64		+	0.56 (0.37-0.85)	0.005
s freated	NA	NA	13	17			0.68 (0.33-1.41)	0.48
<50% Pill use >50% Pill use	NA	NA	23	47		-	0.50 (0.33-1.41)	
250% FILOSE	Dia.	NA.	25	4/		-	0.50 [0.30-0.82]	0.02
<90% Billuse	NA	NA	28	34			0.79 (0.48-1.31)	0.02
290% Pill use	NA	NA	8	30		- T	0.27 (0.12-0.59)	
loe loop								0.36
<25vr	591	442	22	37			0.67 (0.40-1.14)	
22597	640	584	14	27		+	0.41 (0.24-0.87)	
ducation								0.16
<secondary education<="" td=""><td>279</td><td>244</td><td>12</td><td>12</td><td></td><td>+</td><td>0.89 (0.40-1.98)</td><td></td></secondary>	279	244	12	12		+	0.89 (0.40-1.98)	
2Secondary education	955	992	23	52		-	0.46 (0.28-0.74)	
ithnic group								0.79
Non-Hispanic	351	342	4	8			0.48 (0.14-1.60)	
Hispanic	900	906	32	56		+	0.57 (0.37-0.89)	
legion								0.62
Andeon	850	850	32	55		-	0.59 (0.38 0.91)	
Non-Andean	401	398	4	9			0.43 (0.13-1.39)	
lisk at screening	732	753	23	54		+		0.01
URAI				55		-	0.42 (0.26-0.68)	
No URAI telly electrol use	519	495	13	8		-	1.59 (0.66-3.84)	0.38
0.4 brinks	554	529	15	32		+	0.43 (0.23-0.80)	0.38
25 Drinks	554	529	15	32		1	0.43 (0.23-0.80)	
25 Drinks	000			32			0.00 [0.30-1.11]	0.22
No	1085	1074	34	55			0.62 (0.40-0.95)	0.22
Yes	162	170	2	9		<u> </u>	0.23 (0.05-1.06)	
ISV-2 at screening	104	.70						0.32
Negative or indeterminate	783	813	17	38		+	0.46 (0.26-0.82)	
Positive	458	430	19	26			0.70 (0.39-1.2)	

						M I
Subgroup						
s heated			-			0
<50% Pill use 250% Pill use	NA	NA	13	<u>W</u>	1	0.60 (0.33-1.41) 0.50 (0.30-0.02)
COURS FILL USE		- NA				0.0000.00000000000000000000000000000000
<90% Pill use		NA.	28			0.79 (0.45-1.31)
290% Pill use	NA				-+-	0.27 (0.12-0.59)
225yr Education	033	588	14	27		0.41 (0.24-0.87) 0.16
99						
<25yr	591	642	22	37		0.67 (0.40-1.14)
225yr	660	556	- 14	-77	•	0,41 03 24-0 871
Secondary education	979	244	12	10	_	0.89 (0.40-1.98)
2Secondary education	955	992	23	52		0.48 (0.25-0.74)
0-4 Drinks	554	579	15	32		0.43 (0.23 0.83)
Circumcised					+	
Yes						
HSV-2 at screening Negative or indeterminate						
Positive						

Adverse E	vents	*				
Adverse Event	FTC-TDF (N	=1251)	Placebo (1	N=1248)	P Value†	
	no. of patients (%)	no. of events	no. of patients (%)	no. of events		
Any adverse event	867 (69)	2630	877 (70)	2611	0.50	
Any serious adverse event	60 (5)	76	67 (5)	87	0.57	
Any grade 3 or 4 event	151 (12)	248	164 (13)	285	0.51	
Grade 3 event	110 (9)	197	117 (9)	225	0.65	
Grade 4 event	41 (3)	51	47 (4)	60	0.57	
Elevated creatinine level	25 (2)	28	14 (1)	15	0.08	
Headache	56 (4)	66	41 (3)	55	0.10	
Depression	43 (3)	46	62 (5)	63	0.07	
Nausea	20 (2)	22	9 (<1)	10	0.04	
Unintentional weight loss (≥5%)	27 (2)	34	14 (1)	19	0.04	
Diarrhea	46 (4)	49	56 (4)	61	0.36	
Bone fracture	15 (1)	16	11 (<1)	12	0.41	
Death	1 (<1)‡	1	4 (<1)	4	0.18	
Discontinuation of study drug						
Permanently	25 (2)	26	27 (2)	33	0.82	
Permanently or temporarily	79 (6)	99	72 (6)	92	0.45	



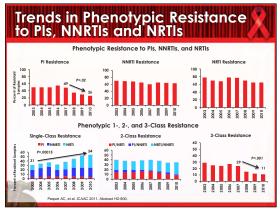
Case	Study Arm	Study Visit	Plasma HIV RNA Level (copies/ml)	Rapid Antibody Tests	Reverse Transcriptase Mutations Conferring Resistance	FTC Resistance Phenotype (Fold change FTC IC50)	Timing of Resistance
		Enrollment	417	Non- reactive	M184V, T215Y, and K103N	Not done	
1	Placebo	W4	111,961	Reactive	M184V, T215Y, and K103N	>300	Primary
2	FTC/TDF	Enrollment	10,000,000	Non- reactive	Wild type	Not done	Constant and
2	FIC/IDF	W4	3,109*	Reactive	M184V	>300	Secondary
_		Enrollment	48	Non- reactive	Assay Failed	Not done	
3	FTC/TDF	W4	<400*	Reactive	M184I	>300	Indeterminate

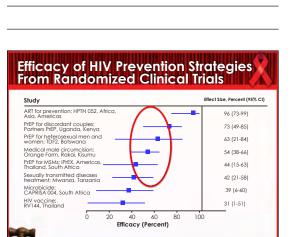
The opinions expressed by all participants in this program have been previously assigned and may not reflect their actual views and options.

David Wohl, MD

The Experts Square Off: Debating the Pressing HIV Issues of 2011

PrEP: The Time Is Now - Con



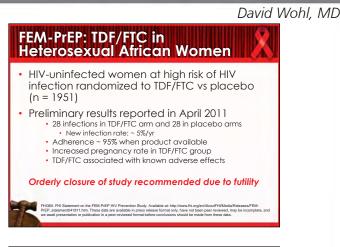


Abdool Karim SS, et al. Lancet. 2011;[Epub ahead of print].

A US Policy Perspective on Oral Preexposure Prophylaxis for HIV

"With regard to costs, opportunity costs, and ethical considerations, the desirability of orally administered PrEP must be established. We have argued that randomized clinical trials may not provide all the needed evidence when the intervention under consideration is one for which the outcome depends not only on physiologic responses to treatment but also on behavioral responses. In the case of PrEP, clinical trials may demonstrate physiologic efficacy but are unlikely to provide definitive information on adherence levels and risk compensation, key parameters in determining whether PrEP will lead to increased rather than decreased HIV transmission."

Published Ahead of Print on April 14, 2011, as 10.2105/AJPH.2010.300066 The latest version is at http://ajph/aphapublications.org/cgi/dio/10.2105/AJPH.2010.300066 Arleen A. Laibowitz, PhD, Karen Byrnes Parker, MPP, and Mary Jane Rotheram-Borus, Ph



A US Policy Perspective on Oral Preexposure Prophylaxis for HIV

Intervention	Year	Cost per QALY, \$ (as Published)	Cost per QALY, \$ (2010)	Source
PrEP (50% efficacy)	2006	298000	345203	Paltiel et al.20
PrEP for high-risk MSM (50% efficacy) 25% coverage rate	2007	31970	35594	Desai et al.19
TNT/TLC+ (without secondary effects)	2004	37100	46653	Paltiel et al.22
TNT/TLC+ (with secondary effects)	2004	30800	38731	Paltiel et al.22
PEP regimen	2000	14449	21646	Pinkerton et al.23



PrEP: The Time Is Now - Con

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