

1° Workshop
La Scuola Medica Salernitana, le Infezioni Epatitiche e l'HIV
16-17Marzo 2016
Lloyd's Baia Hotel, Vietri sul mare (SA)

Vantaggi e svantaggi delle singole classi
PI, NNRTI e INI in prima linea

Antonella Castagna



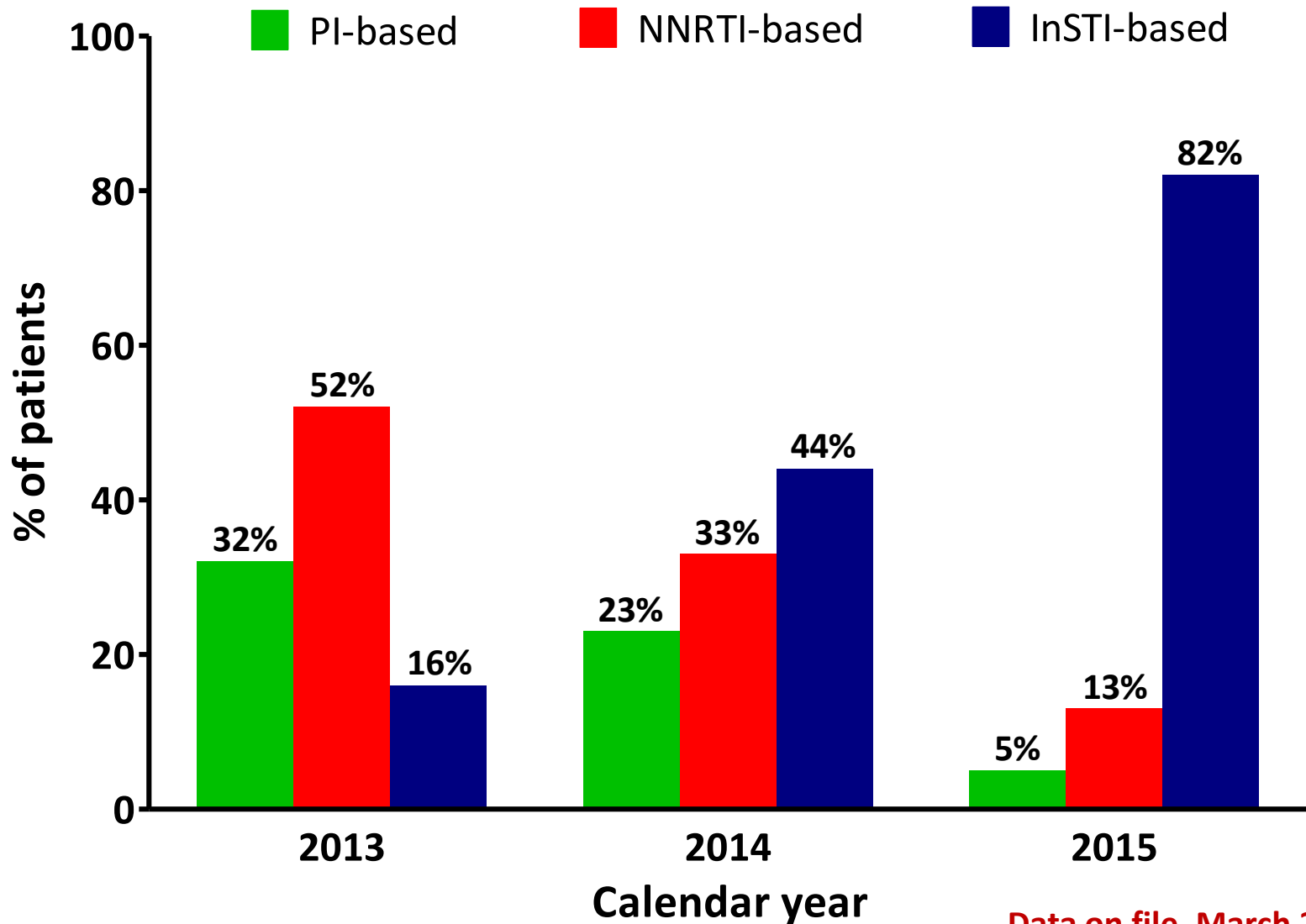
Linee Guida Italiane sull'utilizzo dei farmaci antiretrovirali e sulla gestione diagnostico-clinica delle persone con infezione da HIV-1

17 Dicembre 2015

Tabella 2a - Regimi raccomandati per l'inizio della cART.

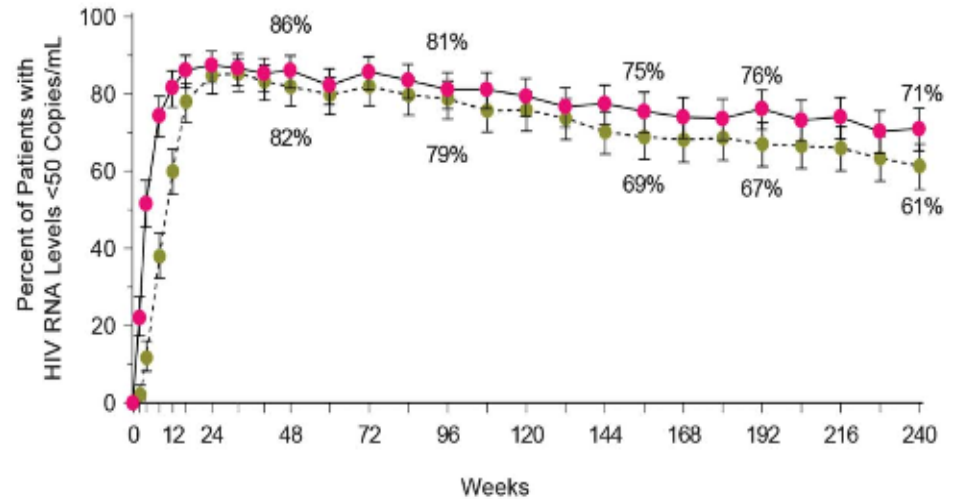
REGIME	RACCOMANDAZIONE (FORZA/EVIDENZA)	RIFERIMENTI BIBLIOGRAFICI
Regimi raccomandati		
TDF/FTC+RAL	[A]	[23-24,26,31-32]
TDF/FTC/EVG/COBI	[A]	[27-30,66]
TAF/FTC/EVG/COBI	[A]	[72]
TDF/FTC+DTG	[A]	[31-32,34]
ABC/3TC+DTG	[A]	[31-34]
ABC/3TC/DTG	[A]	[31-35]
TDF/FTC/RPV (in caso di valori di HIV-RNA < 100.000 cp/mL e conta di T CD4+ > 200 cellule/ μ L)	[A]	[12,14,18,19]
Regimi raccomandati in particolari condizioni		
TDF/FTC+ATV+r o TDF/FTC+DRV+r (in caso di condizioni non favorevoli l'aderenza, di necessità di iniziare il trattamento prima della disponibilità del risultato del test di resistenza, di inizio terapia in gravidanza)	[AII]	[7,11,20-22,26,28-29,34,42,69]
TDF/FTC+ATV/COBI o TDF/FTC+DRV/COBI (in caso di condizioni non favorevoli l'aderenza, di necessità di iniziare il trattamento prima della disponibilità del risultato del test di resistenza)	[AII]	[67,68]

First-line regimens OSR



STARTMRK

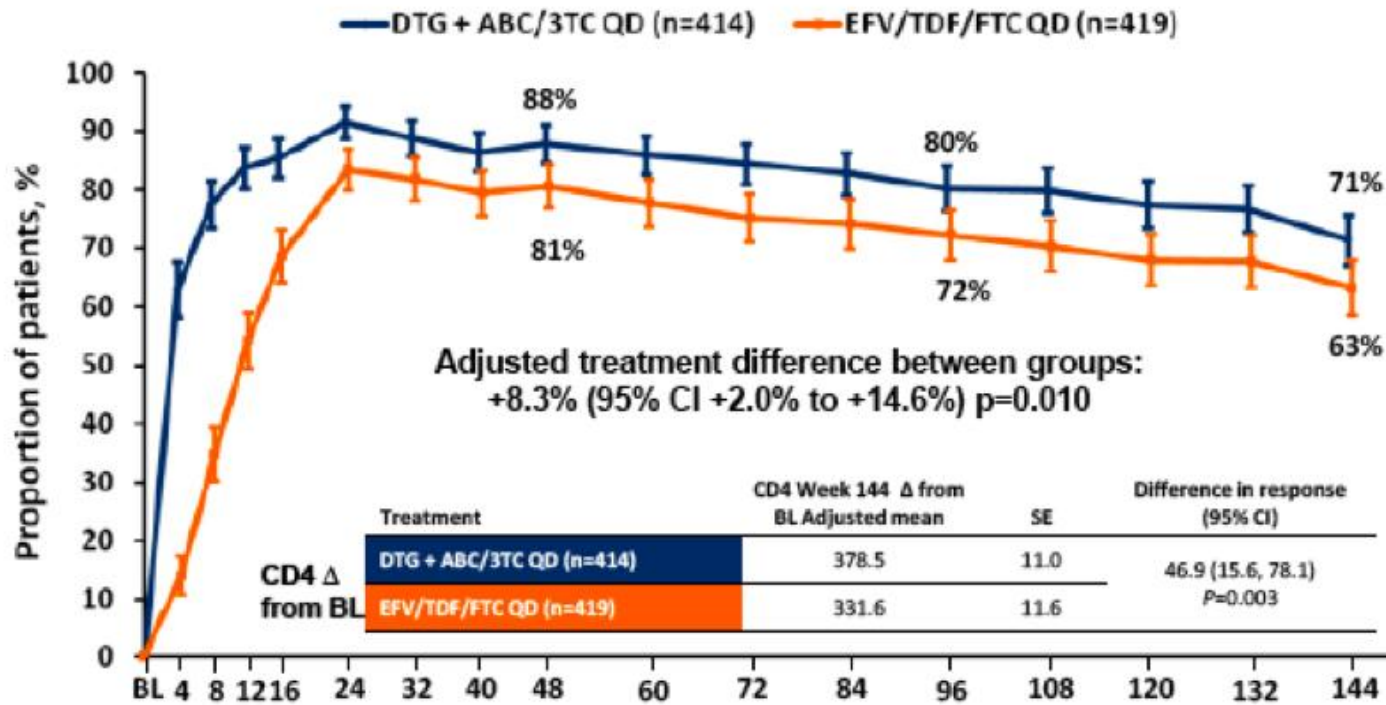
A



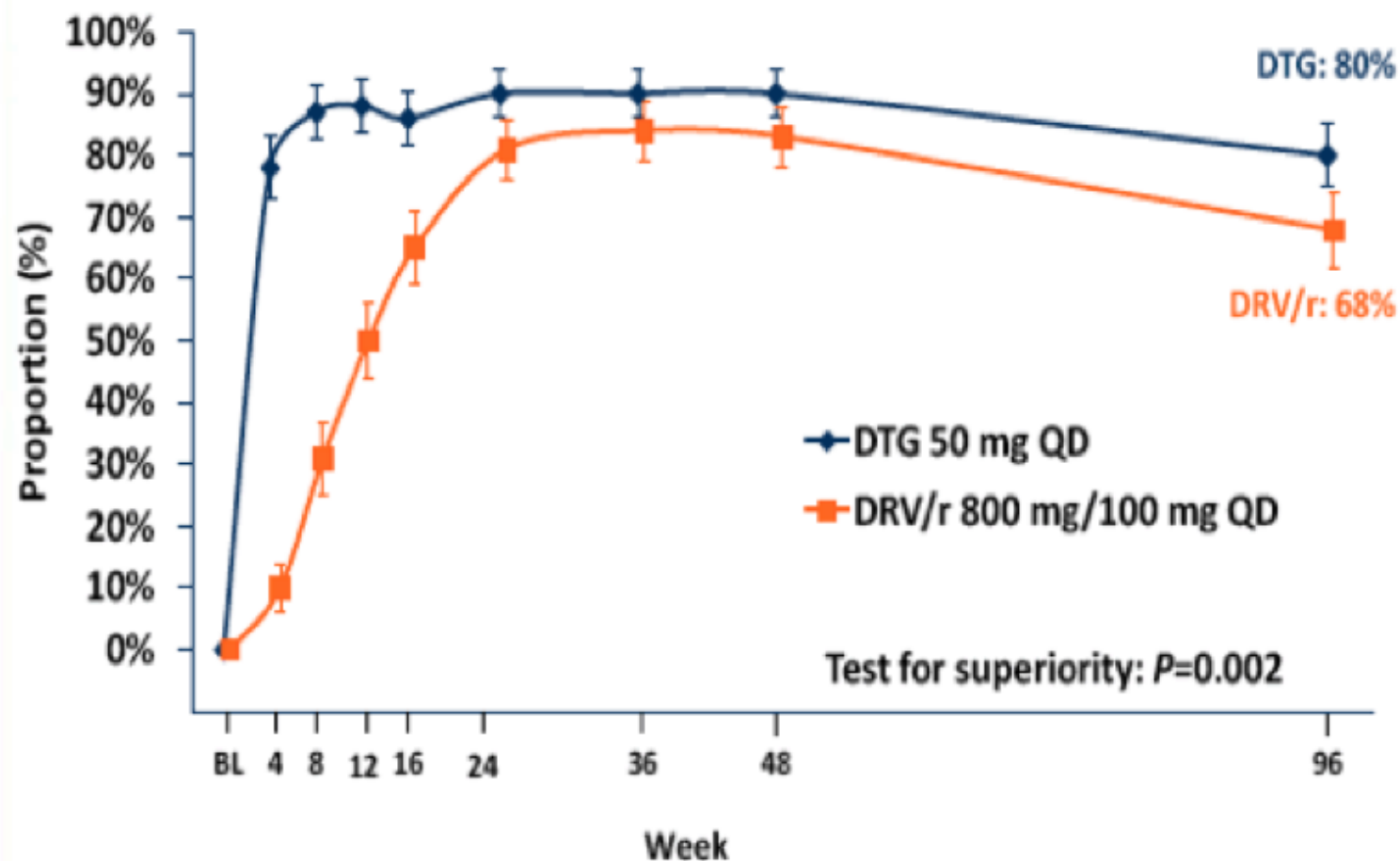
Number of Contributing Patients

● Raltegravir 400 mg b.i.d.	281	278	279	280	281	281	277	280	281	281	277	279
● Efavirenz 600 mg q.h.s.	282	282	282	281	282	282	281	281	282	282	282	279

Proportion <50 c/mL (95% CI) and CD4 Change from Baseline

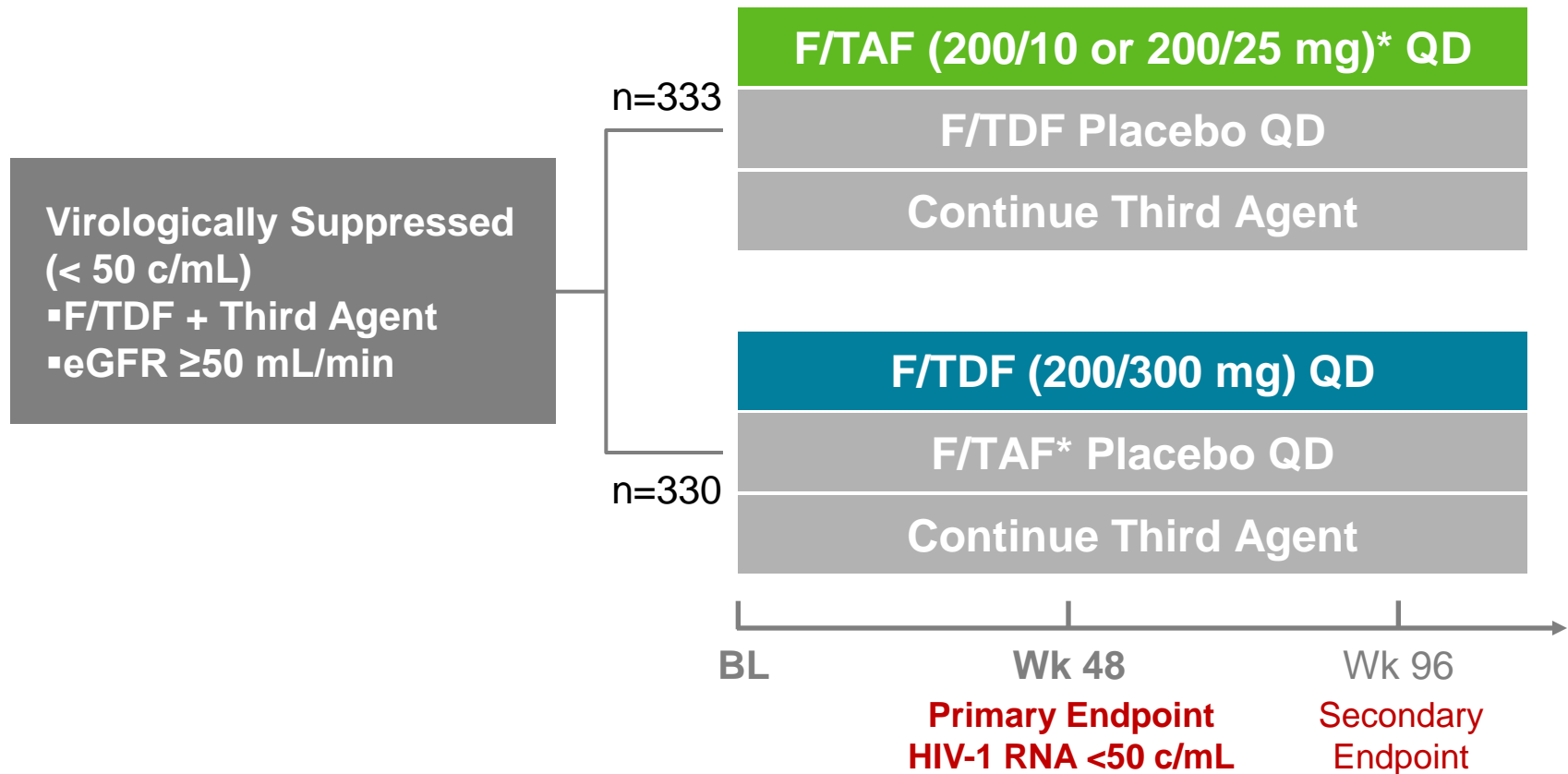


Proportion (95% CI) of Individuals With HIV-1 RNA <50 c/mL Over Time – Snapshot



Switch from F/TDF to F/TAF

- Randomized, double-blind, double-dummy, active-controlled study



***F/TAF Dose:**

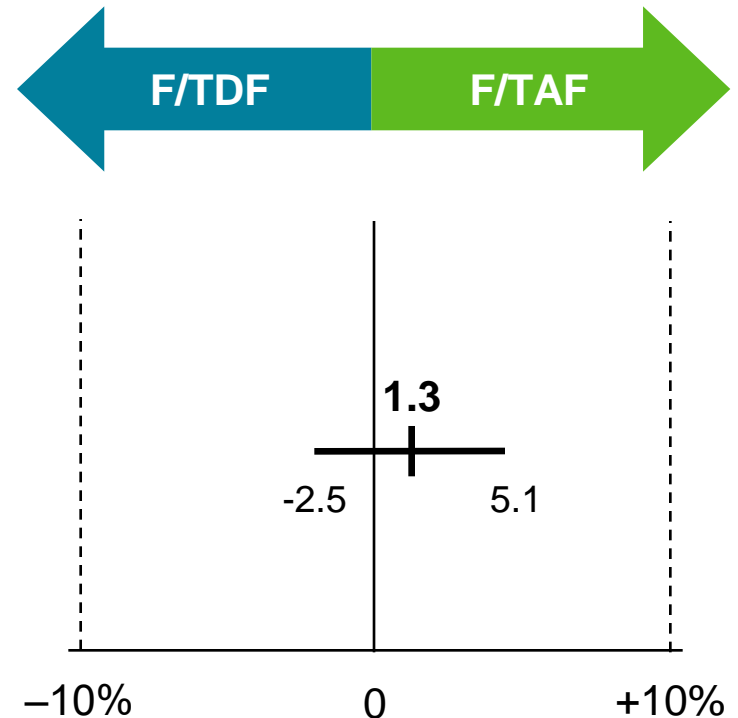
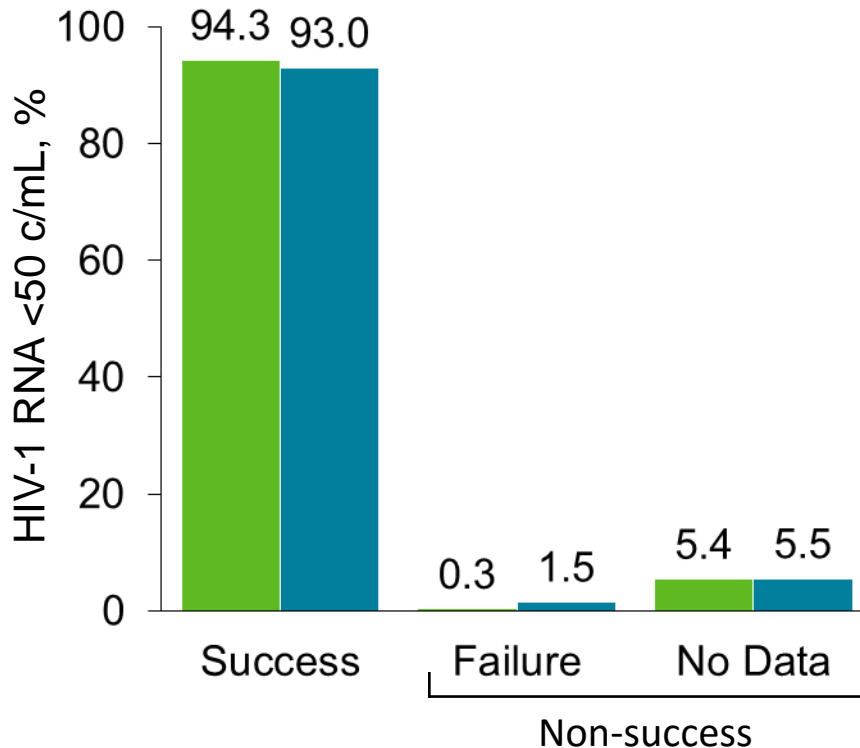
- 200/10 mg with boosted PIs
- 200/25 mg with unboosted third agents

Efficacy at Week 48 (Snapshot)

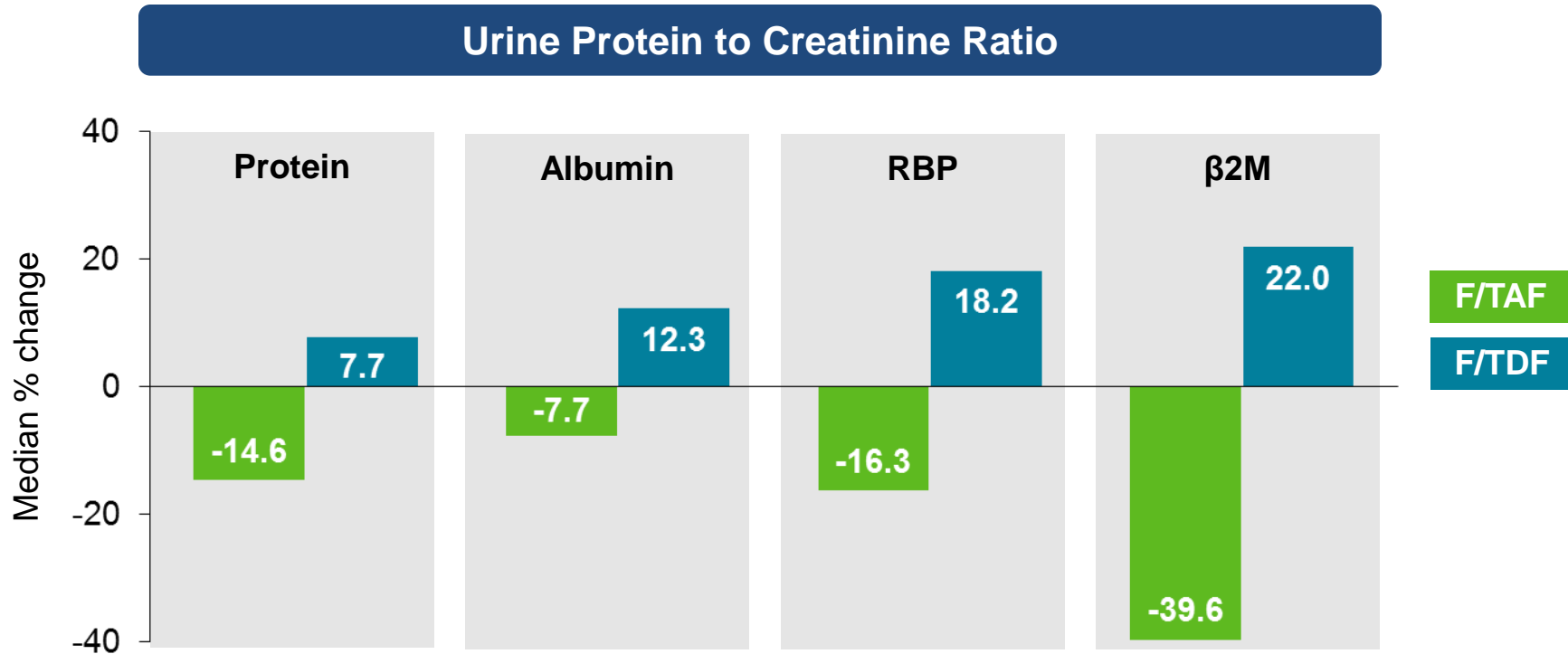
Virologic Outcome

Treatment Difference (95% CI)

■ F/TAF (n=333) ■ F/TDF (n=330)

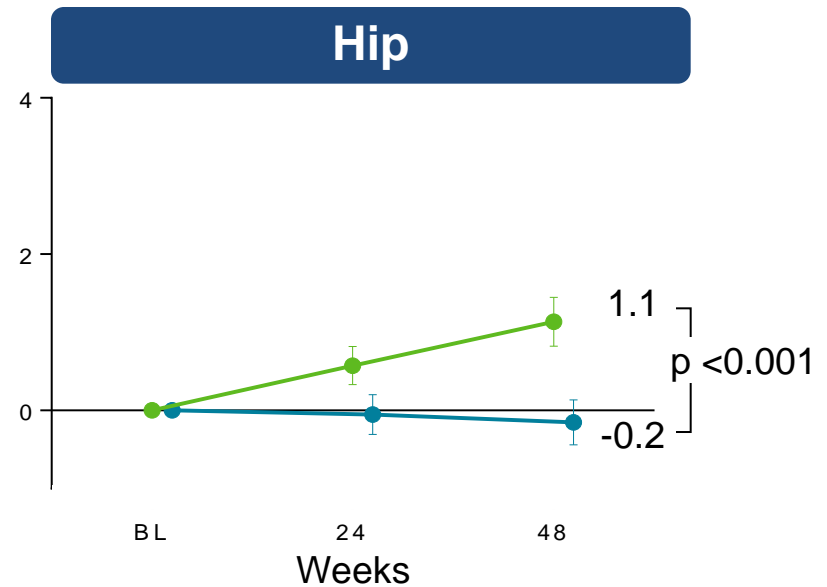
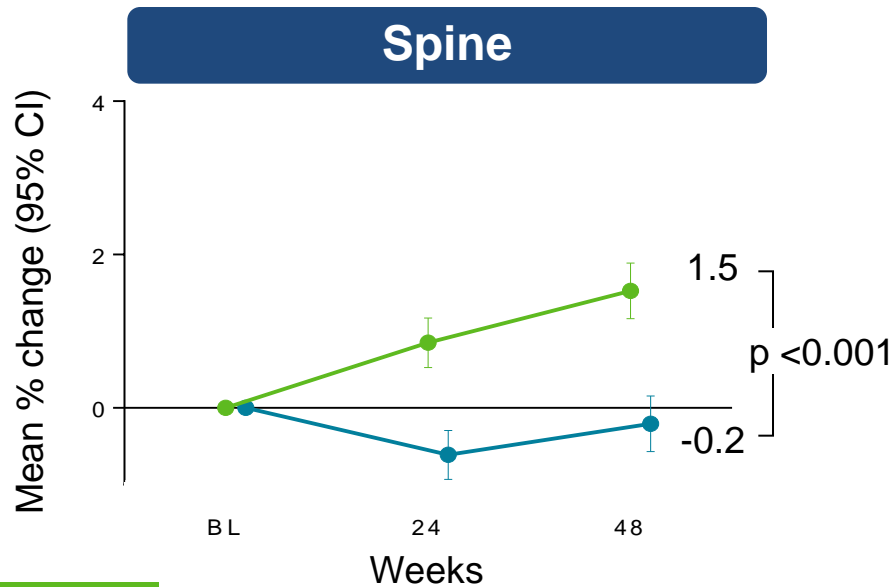


Change in Renal Biomarkers at Week 48



All differences between treatments statistically significant ($p < 0.001$)

Change in Bone Mineral Density through Week 48



	BL	24	48
F/TAF, n	321	310	300
F/TDF, n	320	310	306

	BL	24	48
F/TAF, n	321	309	300
F/TDF, n	317	305	303

≥ 3% BMD increase at Week 48

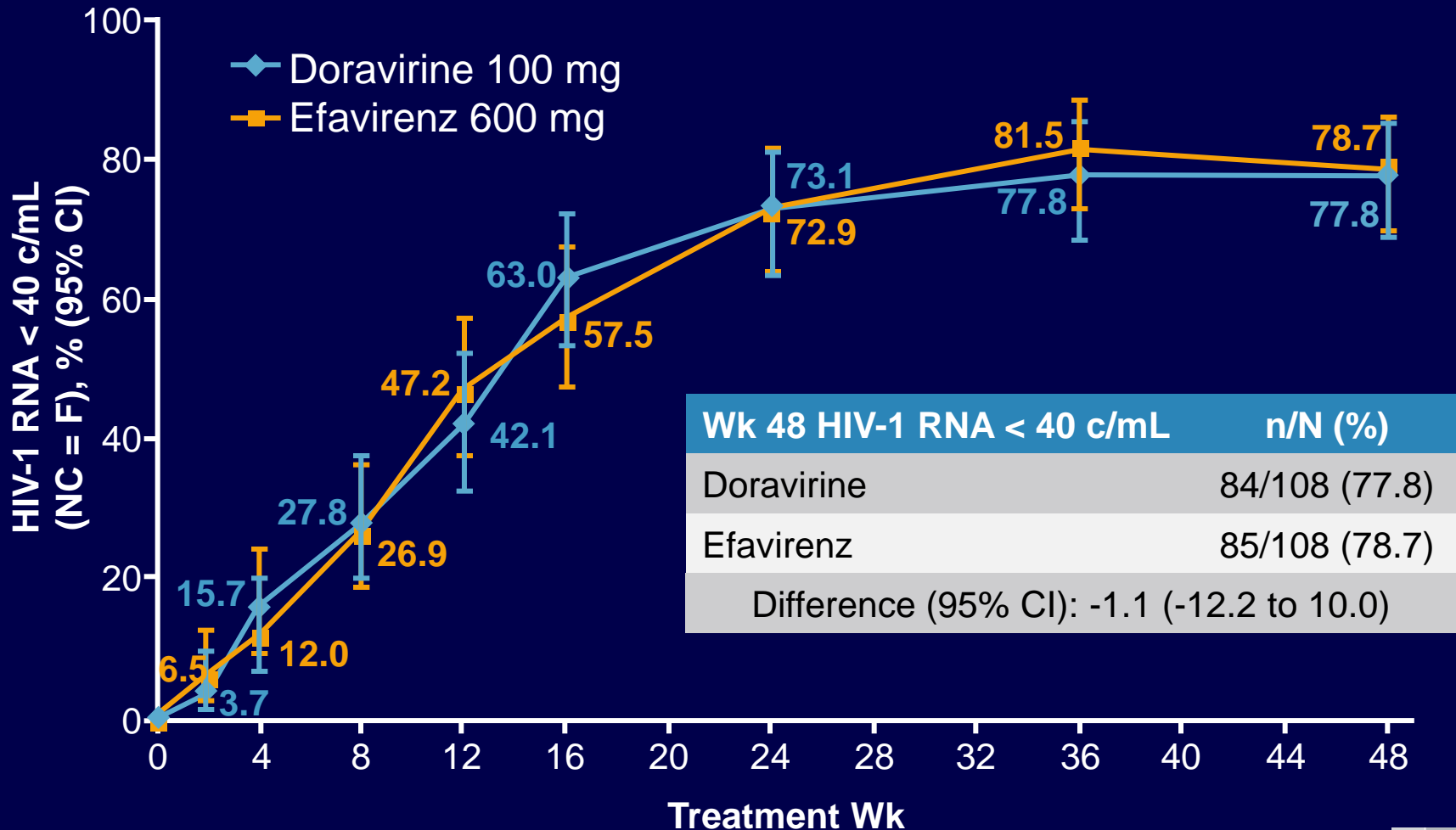
F/TAF	30%
F/TDF	14%

p < 0.001

17%
9%

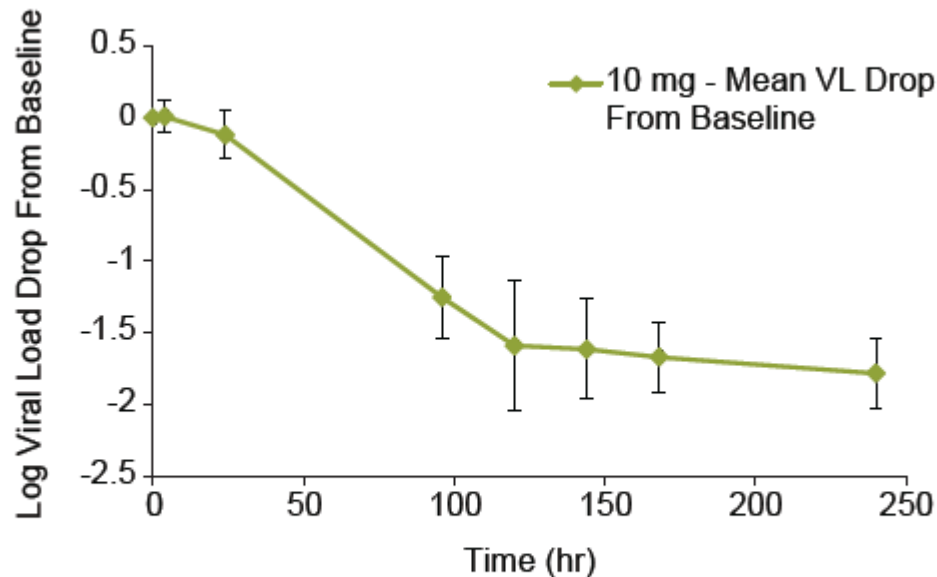
p = 0.003

MK-1439-007: Primary Endpoint



A Single Monotherapy Dose of MK-8591, a Novel NRTI, Suppresses HIV for Ten Days

MK-8591: Time vs Log₁₀ Viral Load Reduction (N=6)



- No NRTI related resistance mutations were identified predose or postdose in any patient

Early Evidence of Antiviral Activity and Safety of ABX464 in HIV Treatment-Naïve Patients

Didier Scherrer¹, Jean-Marc Steens¹, Supparatpinyo Kuanchai², Ratanasuwan Winai³, Kiat Ruxrungtham⁴, Regine Rouzier⁵, Jamal Tazi⁶, Paul Gineeste¹, Hartmut Ehrlich¹, Robert Murphy⁷

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Effect of ABX464 on Unspliced mRNA Biogenesis in-HIV Infected Cells

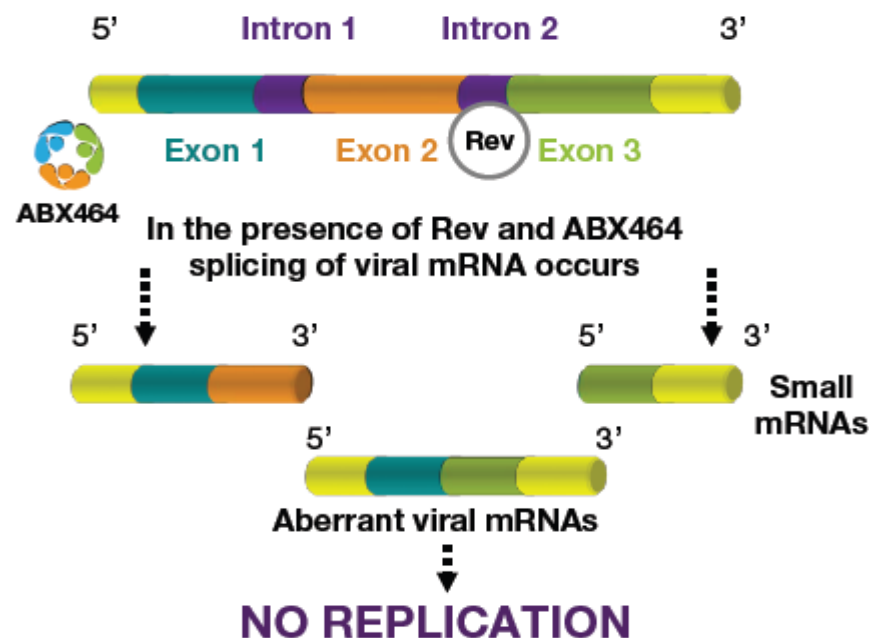
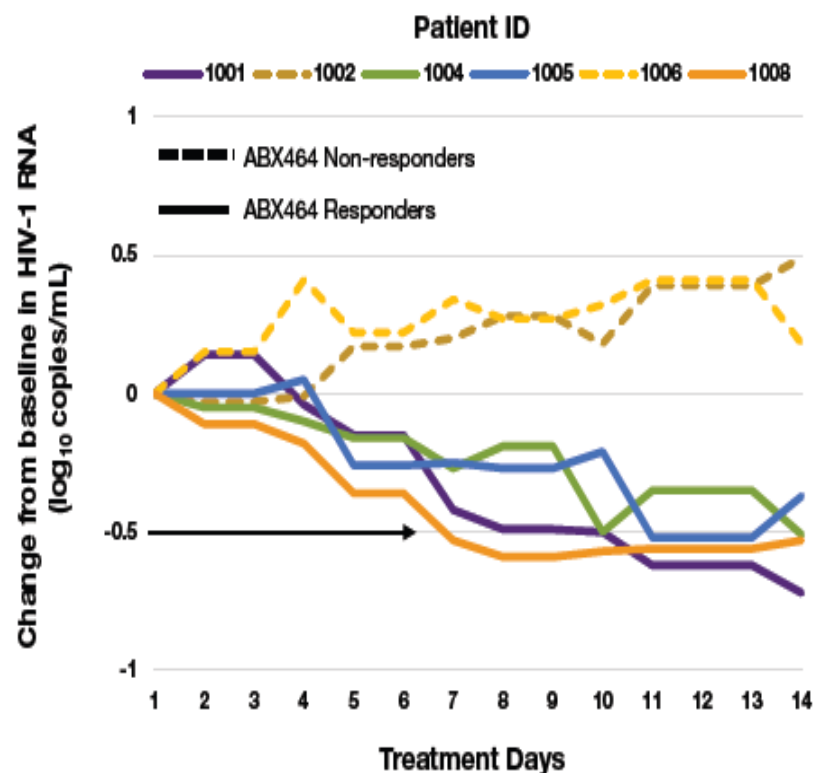
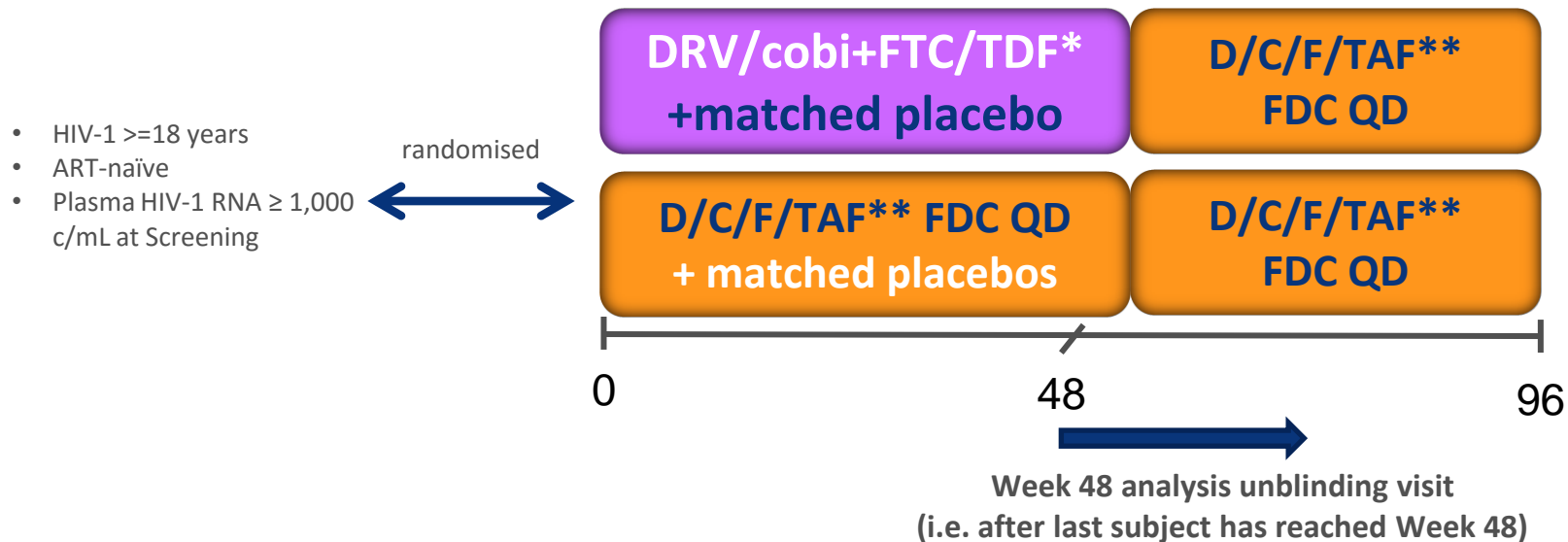


Figure 4. Change in Viral Load from Baseline
in the 150 mg ABX464 Treatment Group



AMBER: D/C/F/TAF FDC in Naïves

Estimated Enrollment: 670 until March 2016
 Study Start Date: July 2015
 Estimated Study Completion Date: September 2018
 Estimated Primary Completion Date: April 2017 (Final data collection date for primary outcome measure)



- A Phase 3, Randomized, Active-controlled, Double Blind, Non-inferiority Study
- Primary Outcome Measures: Percentage of Participants With HIV-1 RNA < 50 copies/mL defined by FDA Snapshot Approach at Week 48

PI/r Induction Maintenance timeline

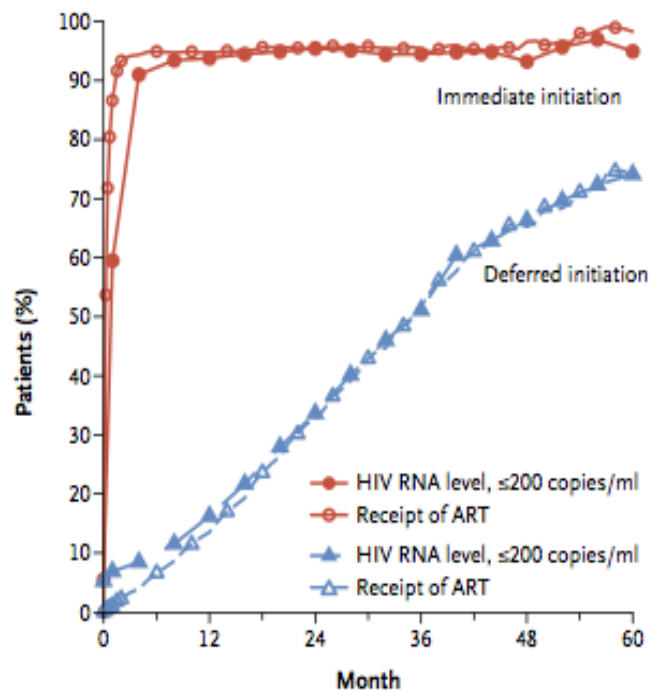
	HIV	ART	< 50 since	PI/r	<50
MONOI	-	8.3 (y)	-	24 (m)	88%
MONET	8.1 (y)	6.5 (y)	-	36 (m)	69%
PIVOT	-	4.2 (y)	38 (m)	36 (m)	65%
PROTEA	8.1 (y)	5.7 (y)	12 (m)	12 (m)	86%
ATLAS-M	4.2 (y)	2.8 (y)	23.5 (m)	12 (m)	86.5%
SALT	5.9 (y)	40.5 (m)	28 (m)	12 (m)	78 %
MODAT	5.1 (y)	25 (m)	19 (m)	24 (m)	63%

Table 1. Characteristics of the Patients at Baseline.*

Characteristic	Immediate-Initiation Group (N = 2326)	Deferred-Initiation Group (N = 2359)	All Patients (N = 4685)
Median age (IQR) — yr	36 (29–44)	36 (29–44)	36 (29–44)
Female sex — no. (%)	624 (26.8)	633 (26.8)	1,257 (26.8)
Race or ethnic group — no. (%)†			
Asian	198 (8.5)	190 (8.1)	388 (8.3)
Black	702 (30.2)	708 (30.0)	1,410 (30.1)
Latino or Hispanic	320 (13.8)	318 (13.5)	638 (13.6)
White	1,015 (43.6)	1,071 (45.4)	2,086 (44.5)
Other	91 (3.9)	72 (3.1)	163 (3.5)
Geographical region — no. (%)			
Africa	499 (21.5)	501 (21.2)	1,000 (21.3)
Asia	179 (7.7)	177 (7.5)	356 (7.6)
Australia	56 (2.4)	53 (2.2)	109 (2.3)
Europe and Israel	763 (32.8)	776 (32.9)	1,539 (32.8)
North America	248 (10.7)	259 (11.0)	507 (10.8)
South America and Mexico	581 (25.0)	593 (25.1)	1,174 (25.1)
Mode of infection with HIV — no. (%)			
Sexual contact			
Men having sex with men	1,300 (55.9)	1,286 (54.5)	2,586 (55.2)
With person of opposite sex	873 (37.5)	917 (38.9)	1,790 (38.2)
Injection-drug use	37 (1.6)	27 (1.1)	64 (1.4)
Blood products, other, or unknown	116 (5.0)	129 (5.5)	245 (5.2)
Median time since HIV diagnosis (IQR) — yr	1.0 (0.4–3.0)	1.1 (0.4–3.1)	1.0 (0.4–3.1)
Median CD4+ count (IQR) — cells/mm ³ ‡	651 (585–765)	651 (582–764)	651 (584–765)
Median HIV RNA (IQR) — copies/ml	13,000 (3133–43,808)	12,550 (2963–42,567)	12,759 (3019–43,391)
Current smoker — no. (%)	730 (31.4)	766 (32.5)	1,496 (31.9)
Median CHD risk at 10 yr (IQR) — %§	1.9 (0.5–5.0)	1.9 (0.5–5.3)	1.9 (0.5–5.1)

START

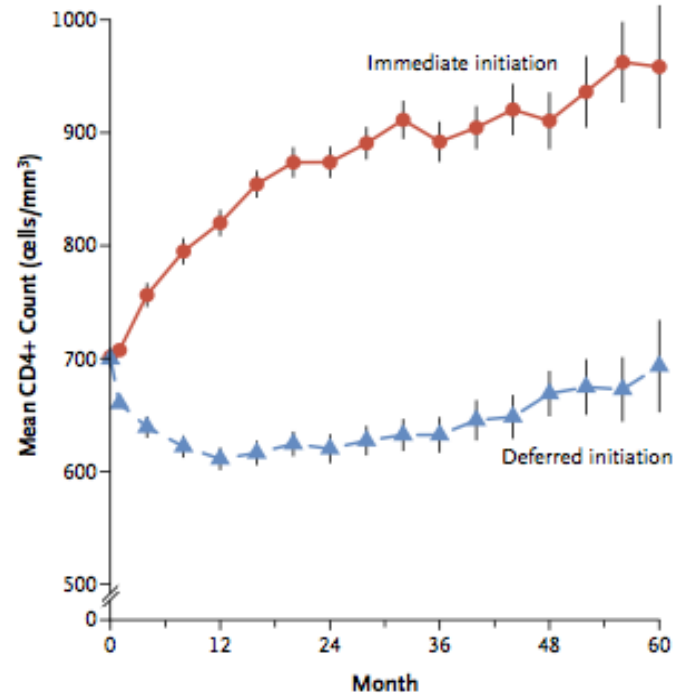
A ART Use and HIV RNA Level



No. of Patients

Immediate initiation	2326	2287	1809	1040	551	115
Deferred initiation	2359	2303	1837	1055	546	109

B CD4+ Count



No. of Patients

Immediate initiation	2326	2205	1853	1075	574	157
Deferred initiation	2359	2190	1829	1077	549	162

Table 1. Snapshot Responders at Week 96

	SPRING-2		SINGLE		FLAMINGO	
	DTG	RAL	DTG	EFV/FTC/TDF	DTG	DRV/r
OVERALL	332/411 (81%)	314/411 (76%)	332/414 (80%)	303/419 (72%)	194/242 (80%)	164/242 (68%)
INDIVIDUALS WITH HIGH BASELINE VL BY BACKGROUND REGIMEN						
>100,000 c/mL						
ABC/3TC	27/37 (73%)	26/39 (67%)	95/134 (71%)	—	11/13 (85%)	7/12 (58%)
TDF/FTC	62/77 (81%)	47/77 (61%)	—	94/131 (72%)	39/48 (81%)	25/49 (51%)
INDIVIDUALS WITH LOW BASELINE CD4						
<200 c/mm ³	39/55 (71%)	28/50 (56%)	39/57 (68%)	45/62 (73%)	18/23 (78%)	14/24 (58%)
200 to <350 c/mm ³	116/144 (81%)	103/139 (74%)	135/163 (83%)	113/159 (71%)	60/73 (82%)	36/51 (71%)



Unexpectedly High Rate of Intolerance for Dolutegravir in Real Life Setting



Guido van den Berk, Josephine Oryszczyn, Willem Blok, Narda van der Meche, Rosa Regez, Daoud Ait Moha, **Kees Brinkman**
dept internal medicin OLVG, Amsterdam, The Netherlands – k.brinkman@olvg.nl

	total (N=387)	naives(N=65)	non-naives (N=322)	
median age (IQR)	48	46 (22)	48 (13)	ns
female	44 11,4%	8 12,3%	36 11,2%	ns
dutch origin	136 35,1%	28 43,1%	108 33,5%	ns
median CD4/mm3 (IQR)	650	530 (395)	655 (345)	ns
median DGV days (IQR)	220	196 (147)	221 (148)	ns
DGV separate..	156	15	141	
DGV in STR..	231	50	181	

DGV stopped	62 16,0%	13 20,0%	49 15,2%	ns
median DGV days (IQR)	78	81 (71)	75 (99)	ns
female	5 11,4%	3 37,5%	2 5,6%	p=0.01
DGV separate	24 15,4%	1 6,7%	23 16,3%	ns
DGV in STR	38 16,6%	12 24,0%	26 14,4%	ns

reason for interruption				
other than toxicity*	6 9,7%	1 7,7%	5 10,2%	
toxicity	56 90,3%	12 92,3%	44 89,8%	ns
sleeping..	19 31,3%	5 38,5%	14 28,6%	ns
gastro-intestinal..	18 29,5%	4 30,8%	14 28,6%	ns
neuro-psychiatric..	12 19,7%	3 23,1%	9 18,4%	ns
paresthesia..	6 9,7%	0 0,0%	6 12,2%	ns
headache..	8 12,9%	0 0,0%	8 16,3%	ns
fatigue..	9 14,6%	1 7,7%	8 16,3%	ns
allergy..	1 1,7%	1 7,7%	0 0,0%	ns
other..	5 8,2%	1 7,7%	4 8,2%	ns

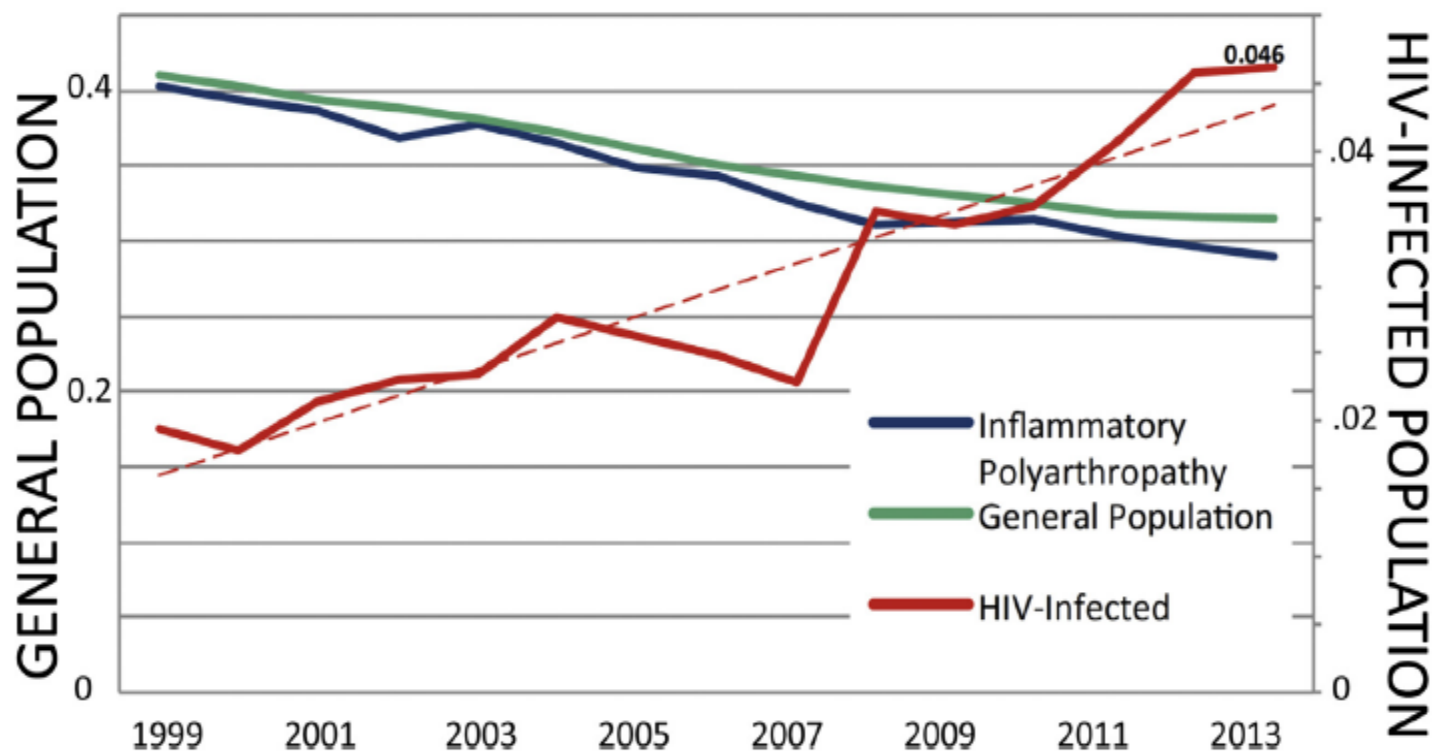
*LTFU, HBV protection, insurance, induction, patient request, interaction

Patterns of Cardiovascular Mortality for HIV-Infected Adults in the United States: 1999 to 2013



Matthew J. Feinstein, MD^{a,*}, Ehet Bahiru, MD^a, Chad Achenbach, MD, MPh^b, Christopher T. Longenecker, MD^c, Priscilla Hsue, MD^d, Kaku So-Armah, PhD^e, Matthew S. Freiberg, MD^f, and Donald M. Lloyd-Jones, MD, ScM^g

Coronary Artery Disease/CVD Mortality for HIV



CHANGES IN CVD RISK FACTORS WITH IMMEDIATE AND DEFERRED ART IN THE START TRIAL

Jason V. Baker^{1,2}, Shweta Sharma³, Amit Achhra⁴, Jose Ignacio Bernardino⁵, Johannes R Bogner⁶, Daniel Duprez⁷, Sean Emery⁸, Brian Gazzard⁹, Jonathan Gordin⁹, Greg Grandits⁹, Andrew Phillips⁹, Siegfried Schwarze¹⁰, Elsayed Z. Soliman¹¹, Stephen A. Spector¹², Giuseppe Tambussi¹³, and Jens Lundgren¹⁴ for the INSIGHT START (Strategic Timing of AntiRetroviral Treatment) Study Group

¹Department of Medicine, University of Minnesota, USA; ²Division of Infectious Diseases, Hennepin County Medical Center, USA; ³Division of Biostatistics, University of Minnesota, USA; ⁴Kirby Institute, University of New South Wales, Australia;

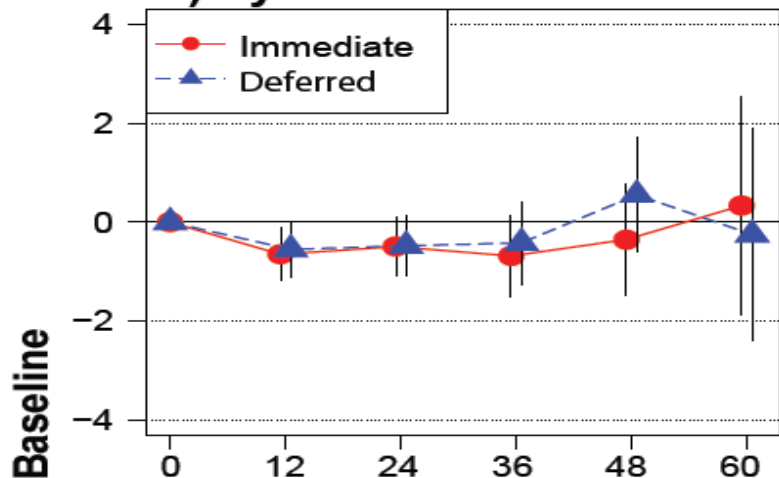
⁵Department of Medicine, Hospital La Paz, IDPAZ, Spain; ⁶Division of Infectious Diseases, MedIV, University Hospital of Munich, Germany; ⁷Chelsea and Westminster Hospital, UK; ⁸Division of Cardiology, David Geffen School of Medicine at University of California, USA;

⁹HIV Epidemiology & Biostatistics Group, University College London, UK; ¹⁰European AIDS Treatment Group, Germany; ¹¹Epidemiological Cardiology Research Center, Wake Forest School of Medicine, USA;

¹²Division of Pediatric Infectious Diseases, University of California San Diego and Rady Children's Hospital, USA; ¹³San Raffaele Scientific Institute, Italy; ¹⁴CHIP, Department of Infectious Diseases, Rigshospitalet, University of Copenhagen, Denmark

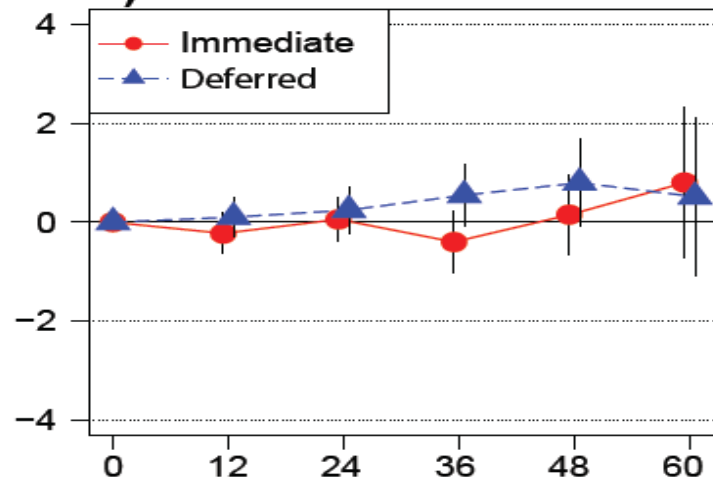


A) Systolic BP



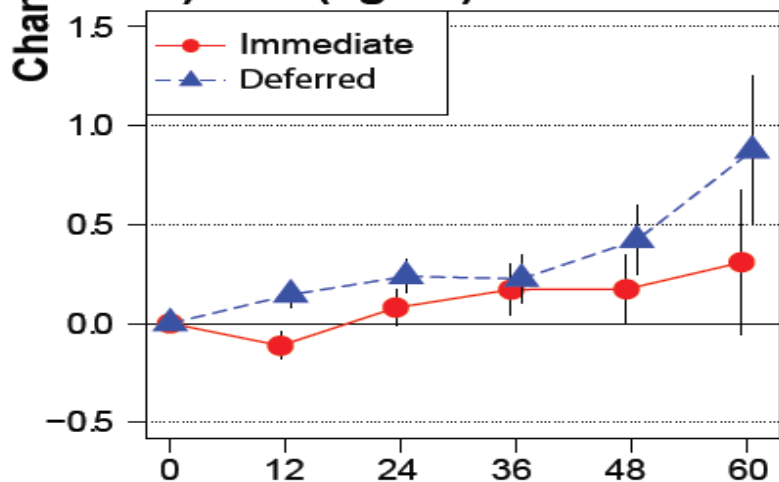
Longitudinal mixed model, adj. for baseline and visit:
Est. diff.: -0.1 95% CI: -0.6 - 0.3 P-value 0.58

B) Diastolic BP

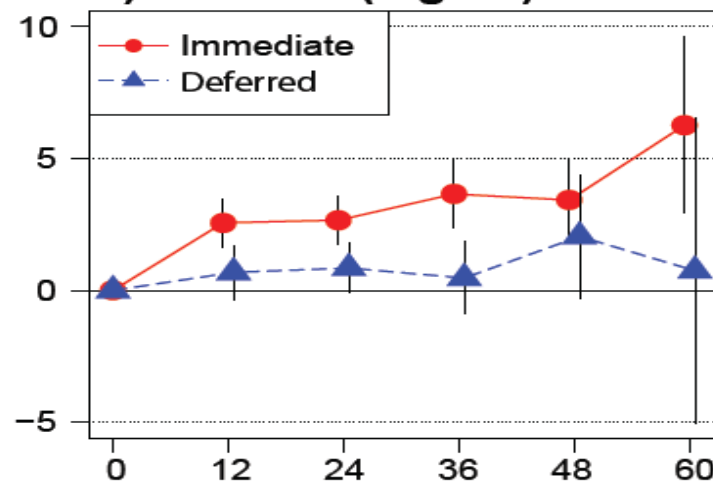


Longitudinal mixed model, adj. for baseline and visit:
Est. diff.: -0.3 95% CI: -0.6 - 0.0 P-value 0.07

C) BMI (kg/m²)



D) Glucose (mg/dL)



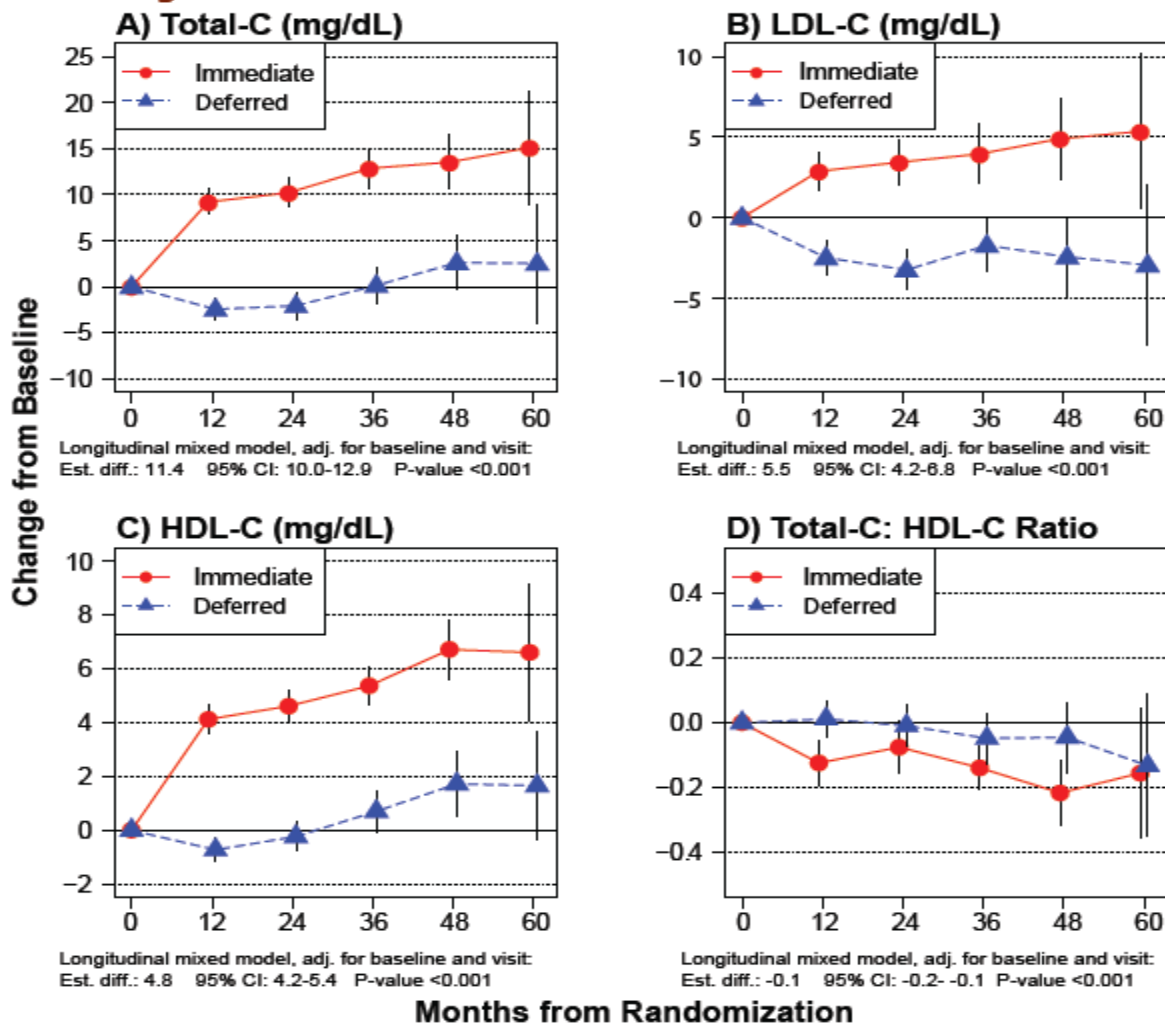
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Figure 2: Changes in Blood Cholesterol Levels



SPIRIT

N Engl J Med 2017; 376:110-20

Total cholesterol

- < 200 mg/dl desirable
- 200 to 239 mg/dl borderline high
- ≥ 240 mg/dl high

LDL

- < 100 mg/dl, optimal
- 100 to 129 mg/dl, near optimal/above optimal
- 130 to 159 mg/dl, borderline high
- 160 to 189 mg/dl, high
- ≥ 190 mg/dl, very high

HDL

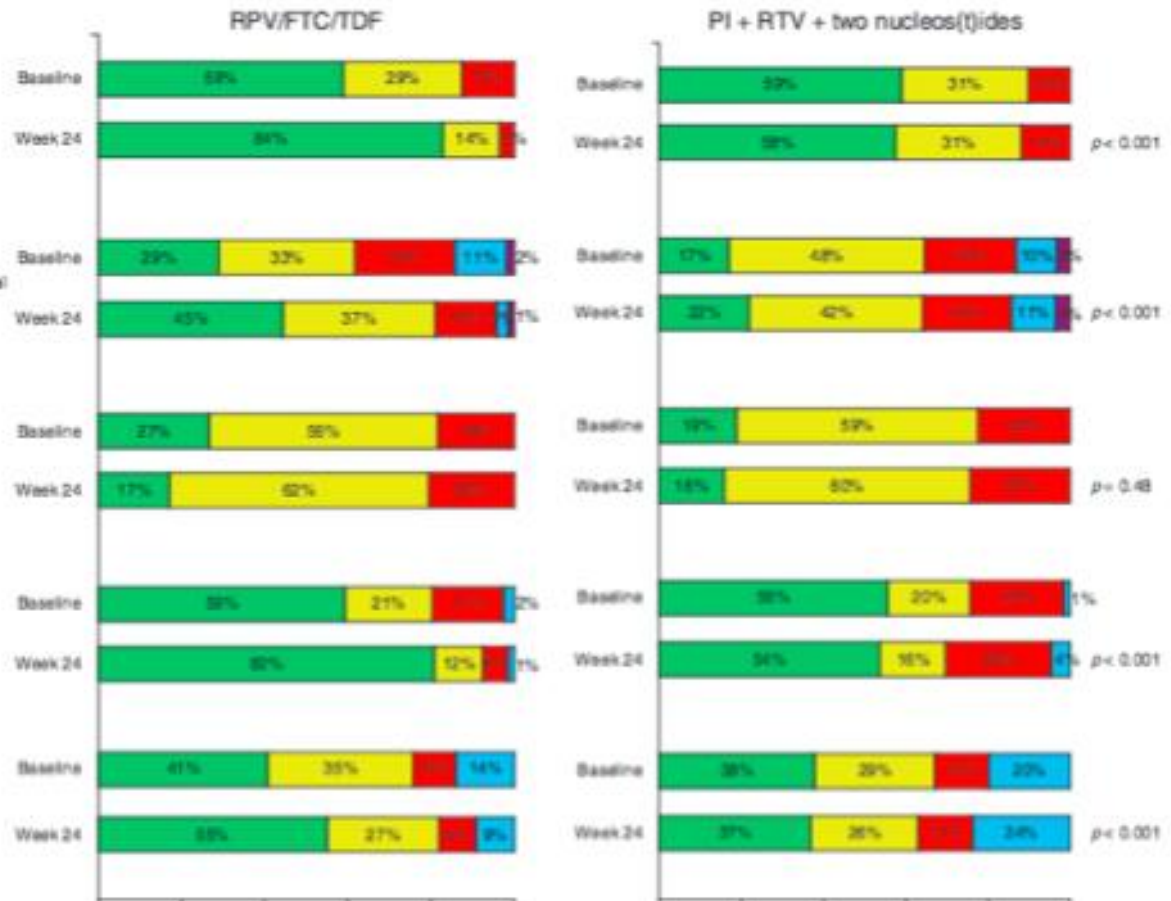
- ≥ 60 mg/dl, high
- 40 to 59 mg/dl
- < 40 mg/dl, low

Triglycerides

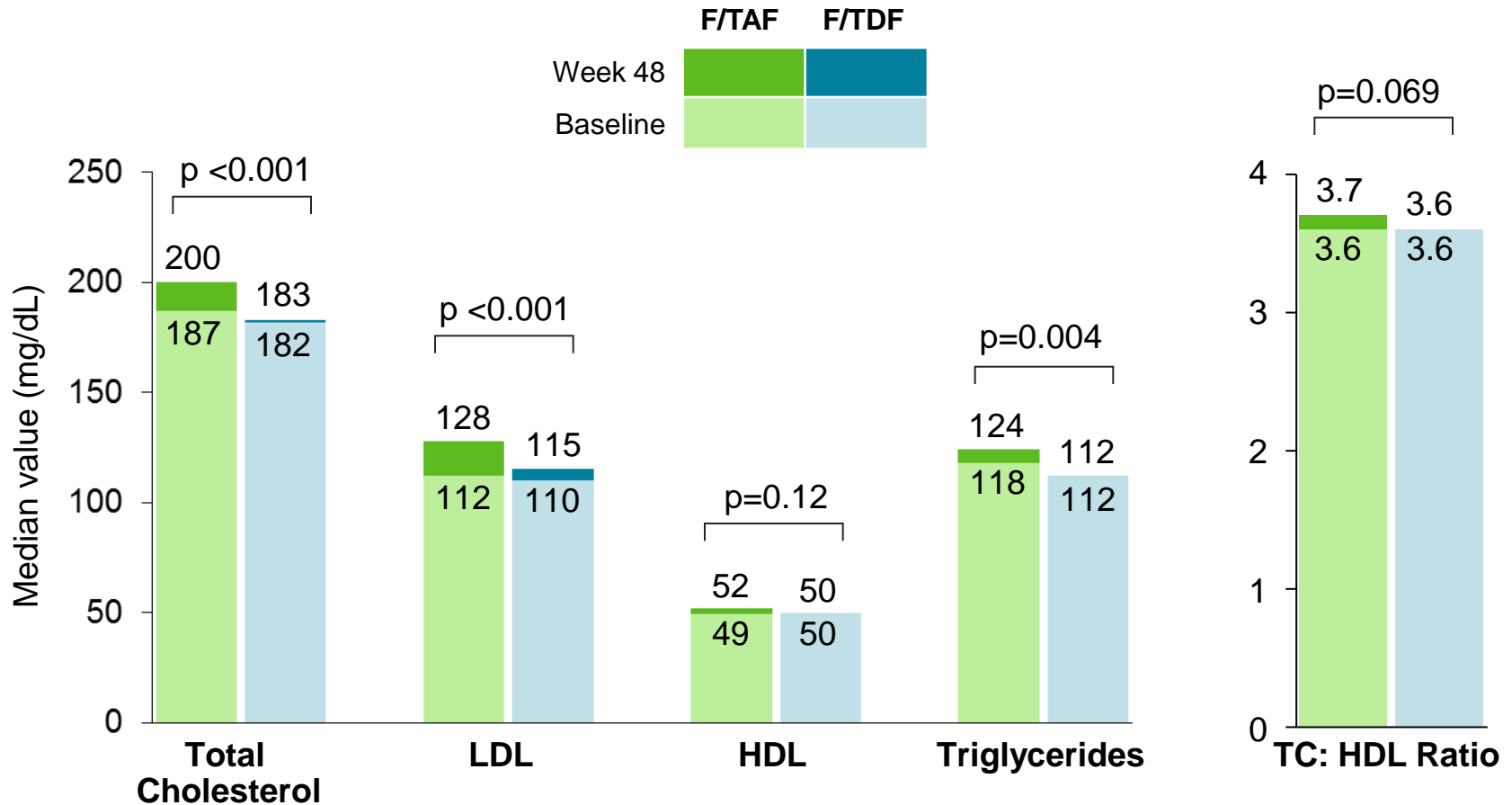
- < 150 mg/dl, normal
- 150 to < 200 mg/dl, borderline high
- 200 to < 500 mg/dl, high
- ≥ 500 mg/dl, very high

Total cholesterol:HDL ratio

- < 3.5
- 3.5 - < 4.4
- 4.4 - < 5
- ≥ 5

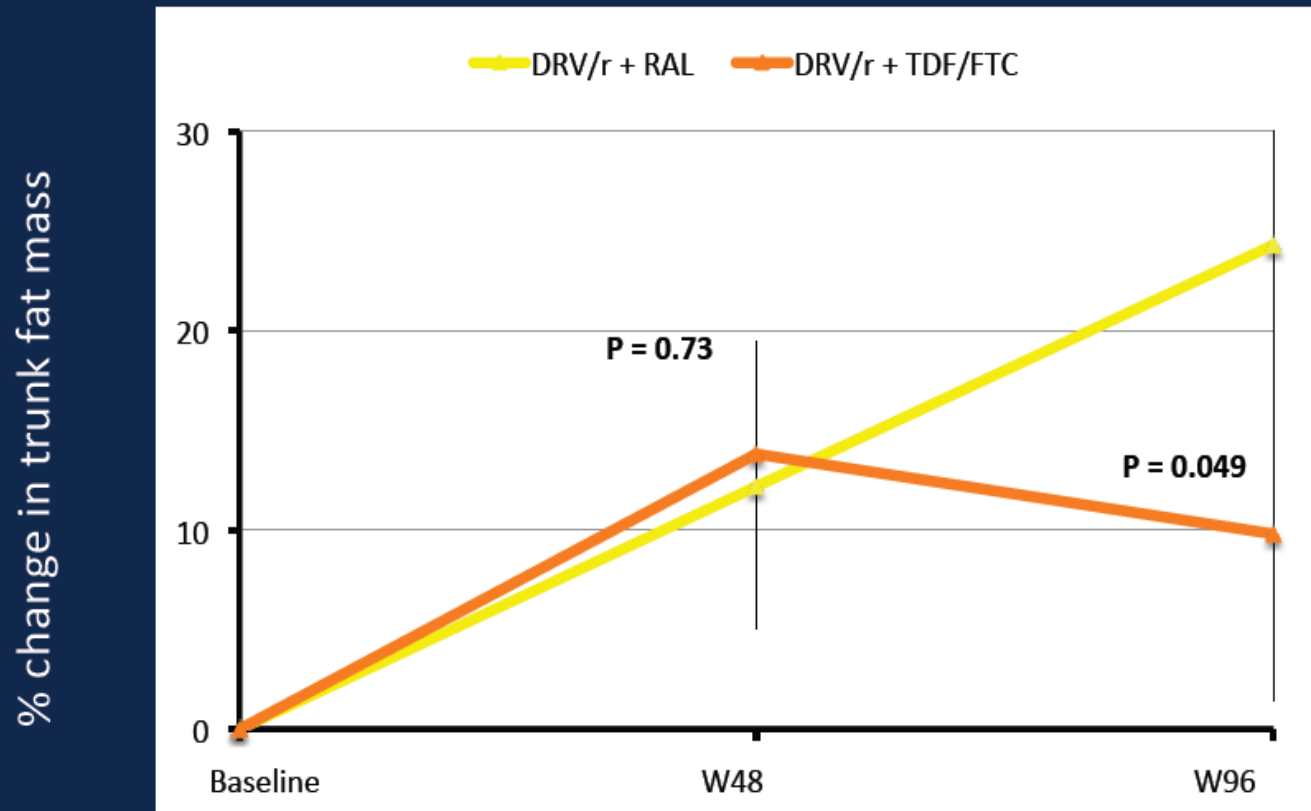


Fasting Lipid Results



	F/TAF	F/TDF
Patients initiating lipid-lowering agents	4%	4%

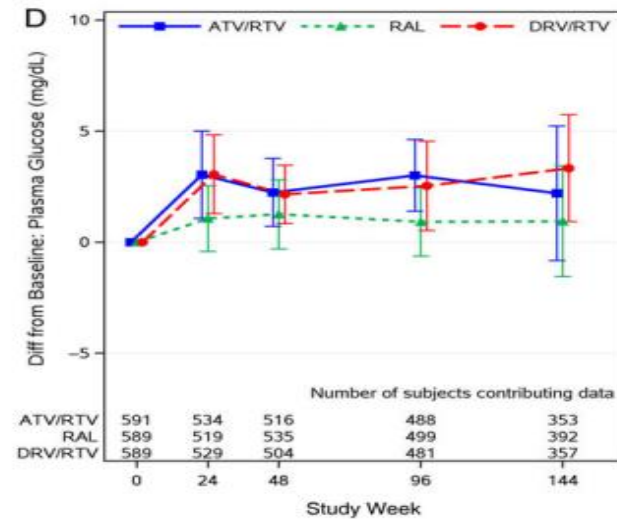
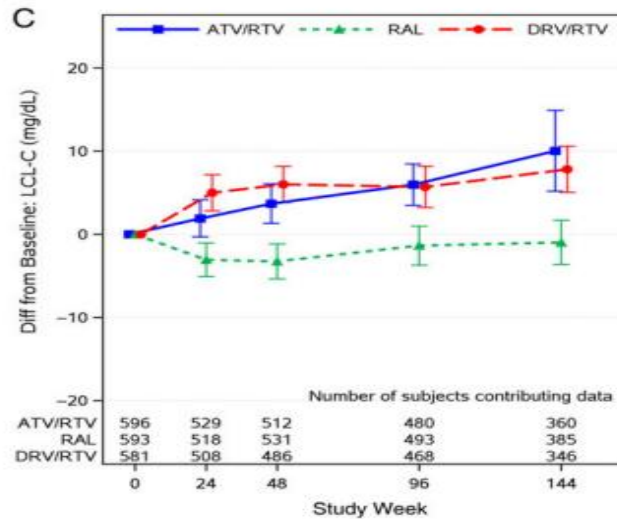
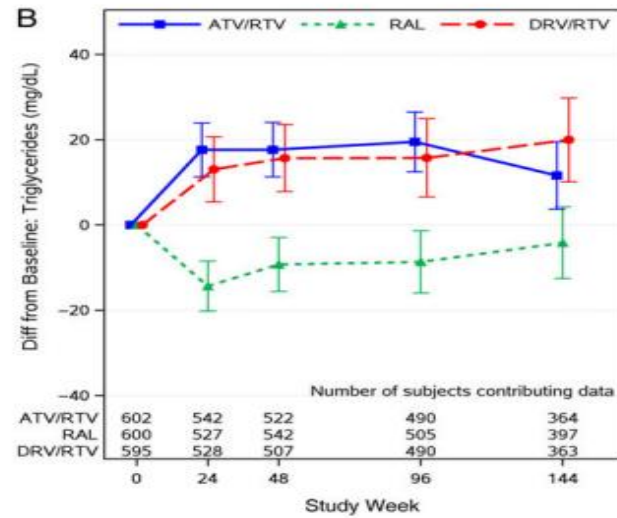
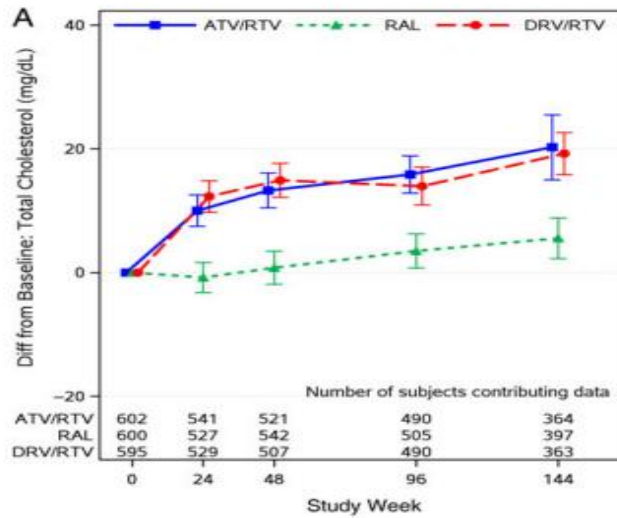
Mean percentage change in trunk fat mass



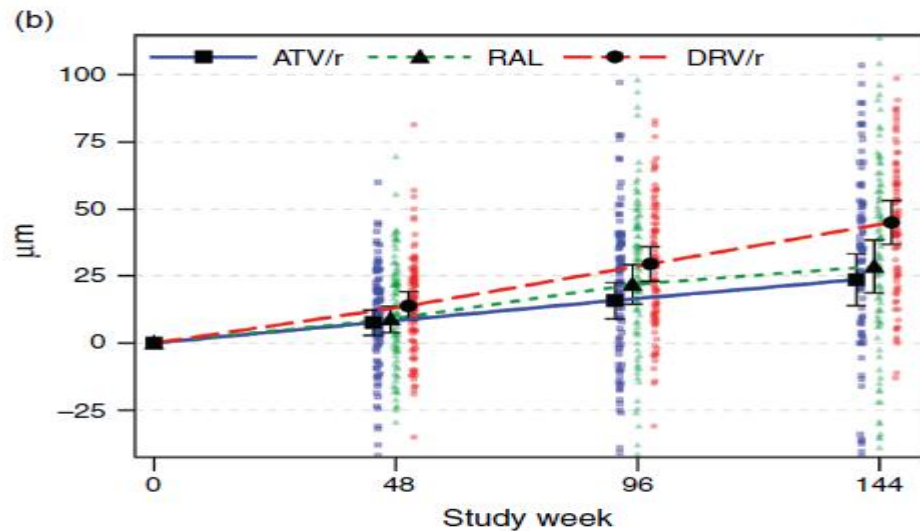
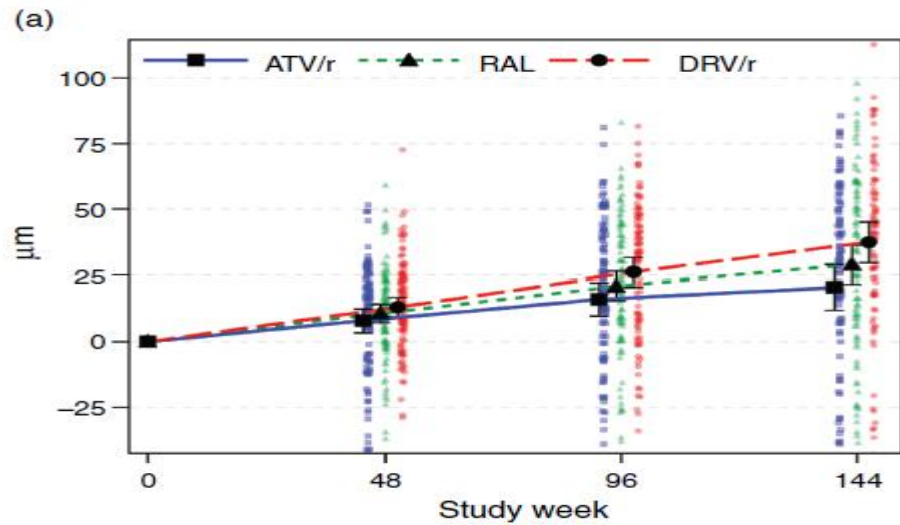
*P values from mean differences between arms (unadjusted)

	W48		W96	
	N	Mean % change (95% CI)	N	Mean % change (95% CI)
DRV/r + RAL n = 61	49	12.2 (5.0 to 19.5)	49	24.3 (12.5 to 36.1)
DRV/r + TDF/FTC n = 65	62	13.8 (8.1 to 19.5)	56	9.8 (1.4 to 18.2)
Mean difference (95% CI); p	1.6 (-7.6 to 10.8); p = 0.73		-14.5 (-28.8 to -0.2); p = 0.049	

ACTG 5257



A prospective, randomized clinical trial of antiretroviral therapies on carotid wall thickness



A prospective, randomized clinical trial of antiretroviral therapies on carotid wall thickness

Table 2. Annualized rates of change in common carotid artery and carotid artery bifurcation intima–media thickness by treatment group and treatment group comparisons.

	CCA IMT ($\mu\text{m}/\text{year}$) ^{a,c}		CCA IMT ($\mu\text{m}/\text{year}$) ^{a,d}		CCA IMT ($\mu\text{m}/\text{year}$) ^{b,d}		Carotid bifurcation IMT ($\mu\text{m}/\text{year}$) ^{a,c}	
Estimated progression rates by treatment group (95% confidence intervals) ^c								
		<i>P</i>		<i>P</i>		<i>P</i>		<i>P</i>
ATV/r	8.2 (5.6, 10.8)	<0.001	7.9 (5.2, 10.6)	<0.001	6.6 (3.2, 10.0)	<0.001	8.7 (5.6, 11.8)	<0.001
DRV/r	12.9 (10.3, 15.5)	<0.001	12.6 (9.8, 15.3)	<0.001	12.8 (9.7, 15.9)	<0.001	14.7 (11.6, 17.8)	<0.001
RAL	10.7 (9.2, 12.2)	<0.001	10.4 (8.7, 12.1)	<0.001	10.2 (8.3, 12.2)	<0.001	11.5 (9.7, 13.3)	<0.001
Estimated difference (first minus second arm) in progression rates (97.5% confidence intervals) ^c								
		<i>P</i>		<i>P</i>		<i>P</i>		<i>P</i>
ATV/r vs. DRV/r	-4.7 (-8.9, -0.4)	0.013	-6.0 (-11.0, -1.0)	0.007	-4.7 (-9.0, -0.5)	0.013	-6.2 (-11.3, -1.1)	0.007
ATV/r vs. RAL	-2.8 (-7.0, 1.5)	0.15	-2.3 (-7.4, 2.7)	0.30	-2.7 (-7.0, 1.5)	0.15	-4.6 (-9.7, 0.5)	0.044
DRV/r vs. RAL	1.9 (-2.4, 6.2)	0.31	3.7 (-1.4, 8.7)	0.11	2.0 (-2.3, 6.3)	0.30	1.6 (-3.3, 6.5)	0.46

Global epidemiology of drug resistance after failure of WHO recommended first-line regimens for adult HIV-1 infection: a multicentre retrospective cohort study



The TenoRes Study Group*



Summary

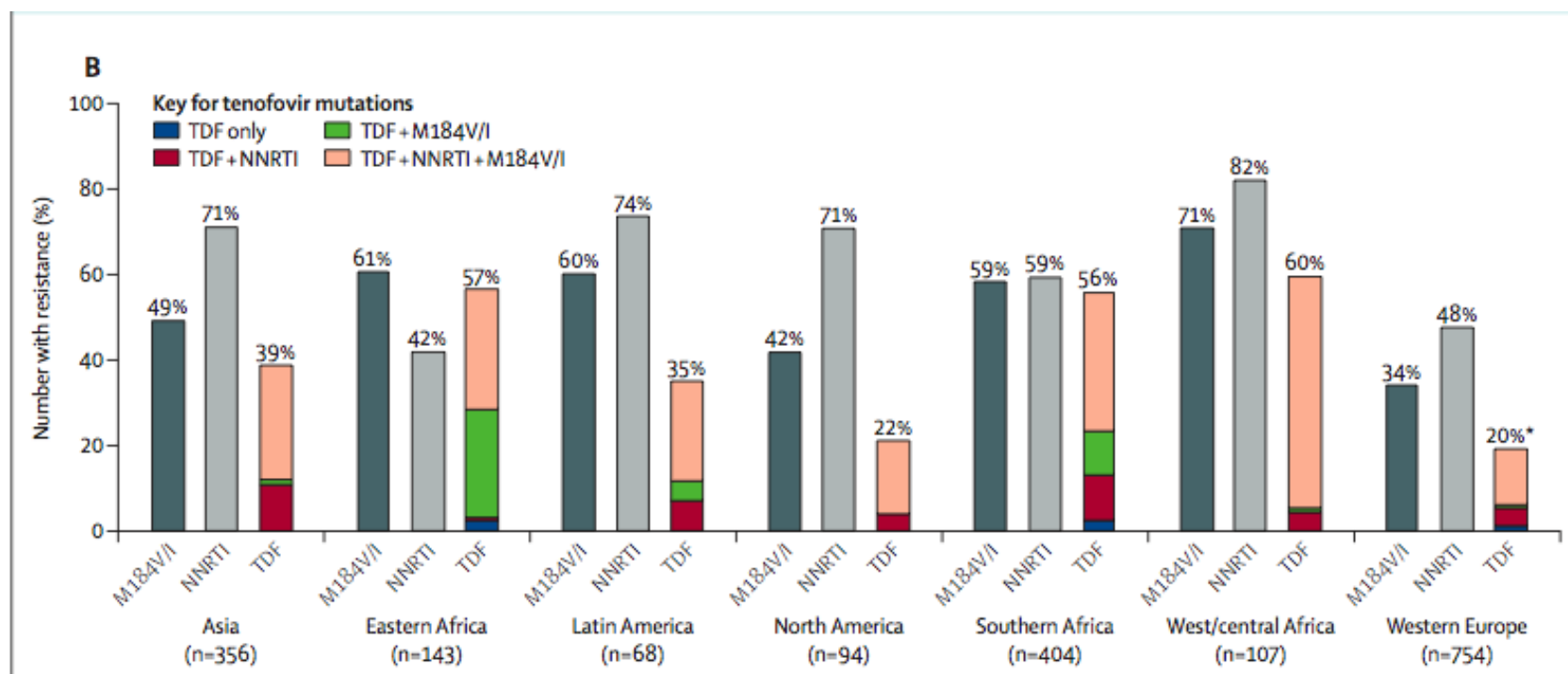
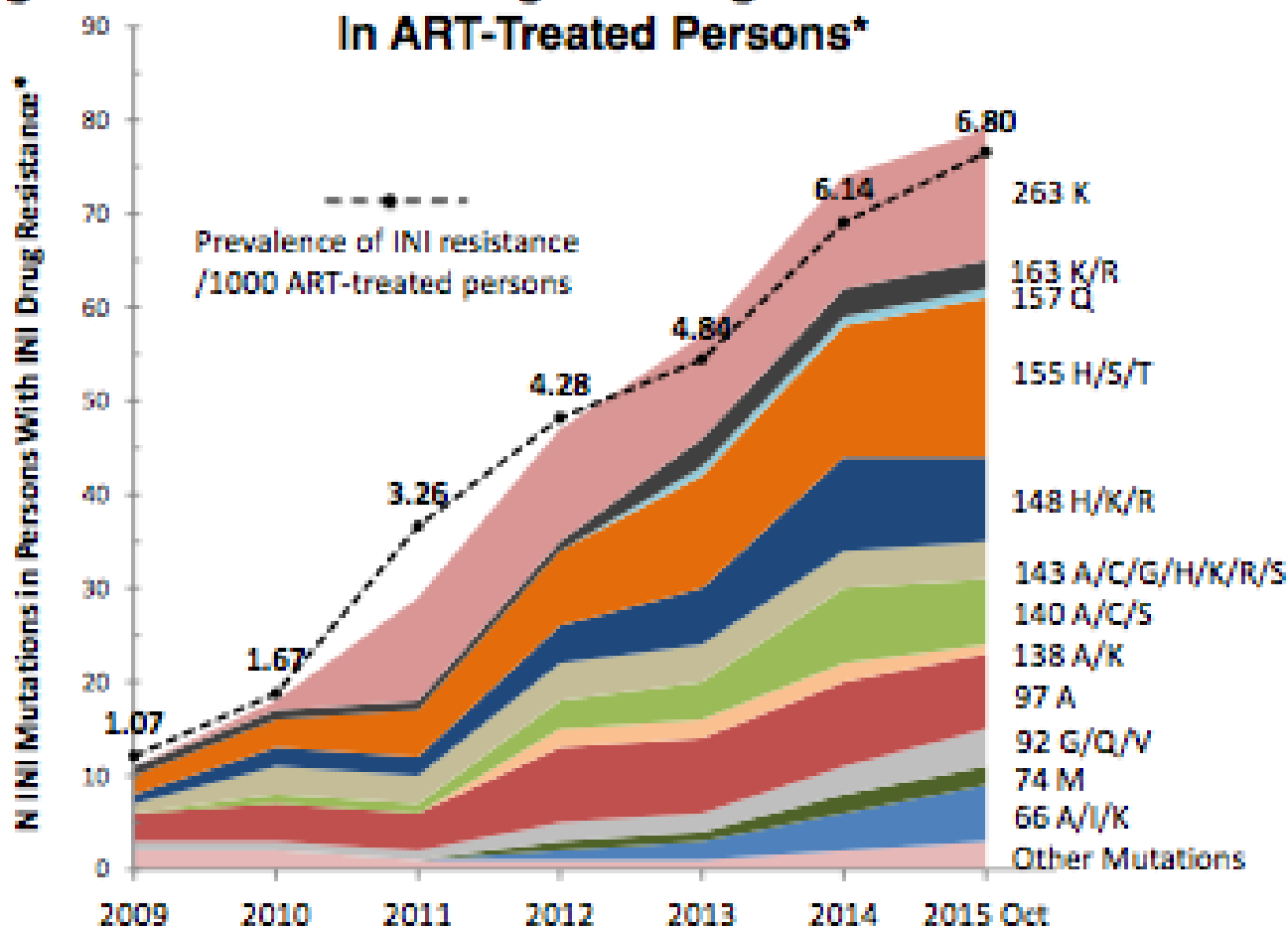


Figure 1: (A) Countries contributing data to resistance analysis and HIV-1 subtype distribution, (B) prevalence of drug resistance by mutation and by region NNRTI=non-nucleotide reverse-transcriptase inhibitor. TDF=tenofovir disoproxil fumarate. *24% (n=462) of participants had tenofovir resistance when genotypes from viral load >1000 copies HIV-1 RNA per mL were considered.

Fig. 2: Prevalence of Integrase Drug Resistance Mutations In ART-Treated Persons*



* Persons with drug resistance mutations conferring a total score ≥ 30 (Stanford HIV Drug Resistance Algorithm v.7.0.1) for at least one INI. For each person, cumulative INI mutations were reported in the first and each subsequent year following detection of drug resistance.

Study	104		111		106
Treatment arm	GEN	STB	GEN	STB	GEN
Cohort	TN	TN	TN	TN	TN
Population	Adults (USA, EU, APAC)		Adults (USA, EU, LATAM)		Adolescents
Study type	Efficacy/safety (double-blind)		Efficacy/safety (double-blind)		Efficacy/safety (open-label)
Full-analysis set, n	435	432	431	435	50

Treatment efficacy at Week 48*

■ VS ■ VF ■ ND



Pretreatment resistance analysis, n (%)

RAMs detected

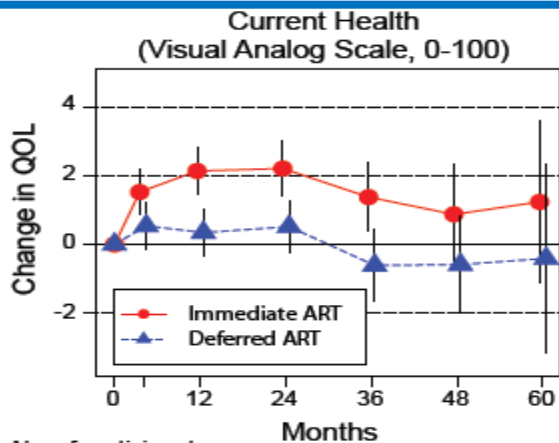
PI associated (primary)	13 (3)	13 (3)	16 (4)	15 (3)	0
NRTI associated	39 (9)	22 (5)	34 (8)	34 (8)	4 (8)
NNRTI associated	85 (20)	76 (18)	70 (16)	83 (19)	3 (6)
INSTI associated (primary)	0	0	0	1 (0.2)	0

HIV-1 subtype

B	340 (78)	345 (80)	403 (94)	404 (93)	11 (22)
Non-B	94 (22)	87 (20)	28 (7)	31 (7)	39 (78)

Week-48 resistance analysis, n (%)

RAP	5 (1)	7 (2)	11 (3)	12 (3)	2 (4)
HIV-1 RNA <50 copies/mL at Week 48	1 (<1)	2 (<1)	1 (<1)	3 (<1)	1 (2)
Final RAP, n with data (%)†	4 (<1)	5 (1)	10 (2)	8 (2)	1 (2)
No RAMs observed	1 (<1)	2 (<1)	6 (1)	6 (1)	1 (2)
RAMs developed	3 (<1)	3 (<1)	4 (<1)	2 (<1)	0
PI associated (primary)	0	1 (<1)‡	0	0	0
NRTI associated	3 (<1)	3 (<1)	4 (<1)	2 (<1)	0
E44D	—	1	—	—	—
A62V	—	—	—	—	—
K65R	1	1	—	1	—
M184V/I	3	3	4	2	—
NNRTI associated	0	0	0	0	0
INSTI associated (primary)	2 (<1)	2 (<1)	3 (<1)	1 (<1)	0
T66I/A	—	—	2	—	—
E92Q	1	2	1	—	—
S147G	—	—	—	—	—
Q148R	—	1	1	1	—
N155H	1	—	—	—	—

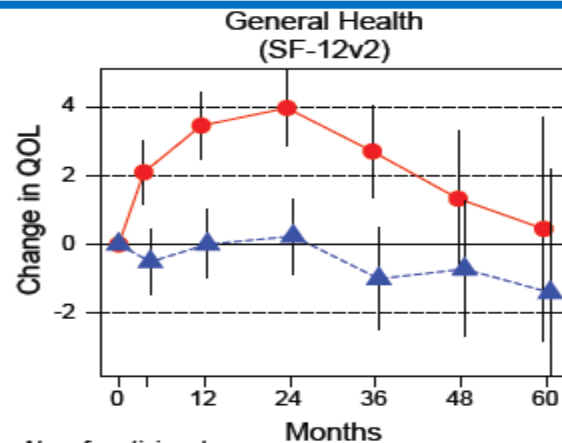


Months

No. of participants:
Imm: 2253 2150 1797 1038 559 146
Def: 2287 2121 1173 1026 529 156

P-values, t-tests, unadjusted:
0.03 <0.001 0.002 0.007 0.15 0.37

Longitudinal mixed model, adjusted for visit & baseline QOL:
Est. diff: 1.9 95% CI: 1.2-2.5 P-value: <0.001

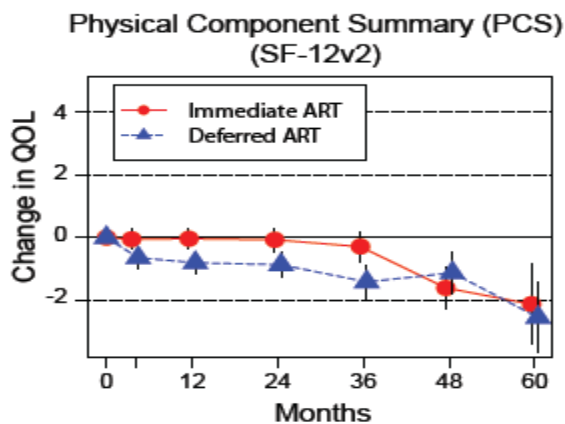


Months

No. of participants:
Imm: 2091 1977 1698 1014 555 145
Def: 2119 1949 1677 993 521 153

P-values, t-tests, unadjusted:
<0.001 <0.001 <0.001 <0.001 0.14 0.45

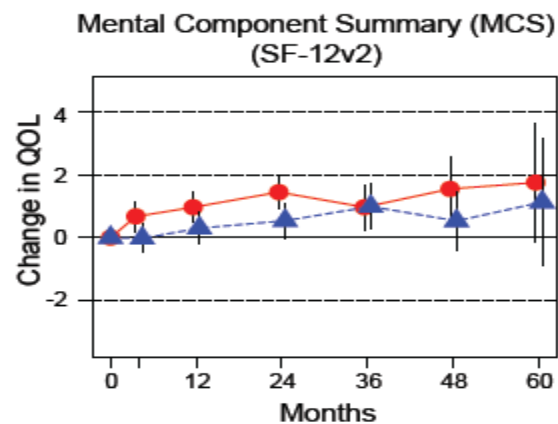
Longitudinal mixed model, adjusted for visit & baseline QOL:
Est. diff: 3.6 95% CI: 2.8-4.5 P-value: <0.001



Months

P-values, t-tests, unadjusted:
0.01 0.002 0.003 0.002 0.31 0.62

Longitudinal mixed model, adjusted for visit & baseline QOL:
Est. diff: 0.8 95% CI: 0.5-1.1 P-value: <0.001



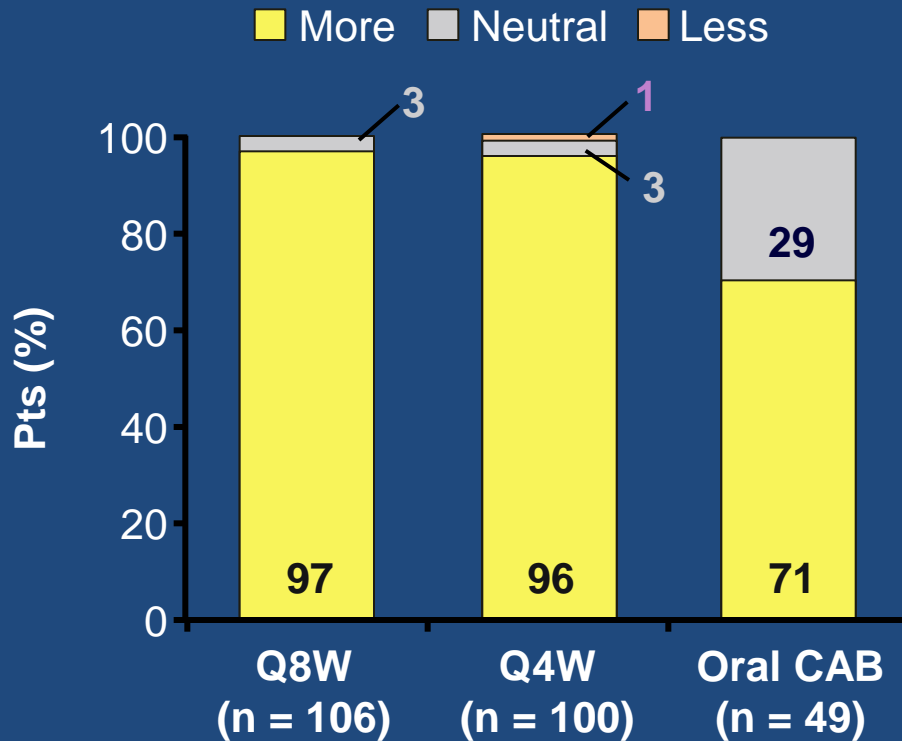
Months

P-values, t-tests, unadjusted:
0.04 0.05 0.02 0.97 0.14 0.65

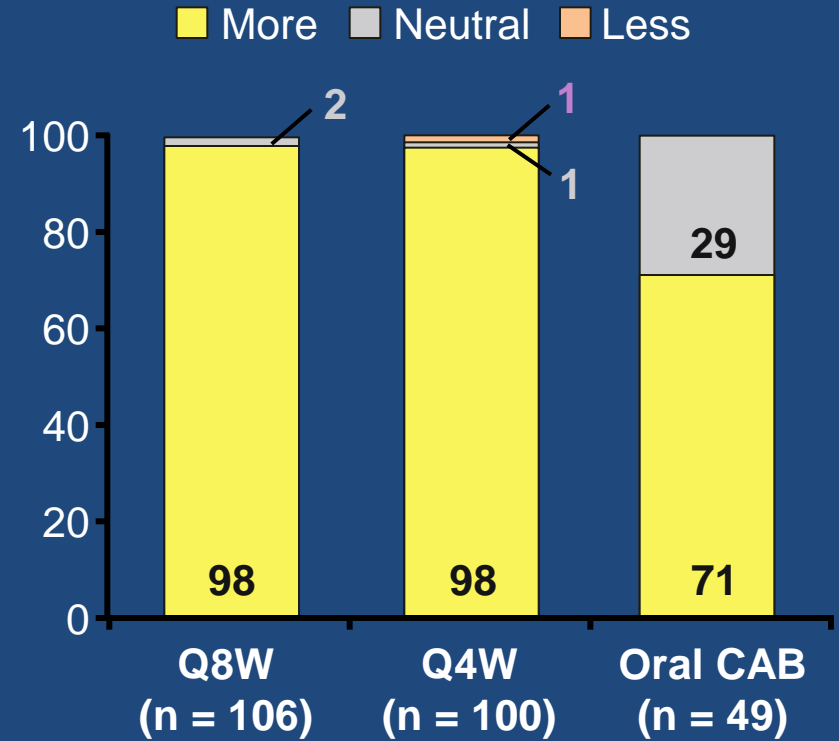
Longitudinal mixed model, adjusted visit & baseline QOL:
Est. diff: 0.9 95% CI: 0.4-1.3 P-value: <0.001

LATTE-2: Wk 32 Pt Satisfaction With Maintenance Therapy vs Oral Induction

How satisfied are you with your current treatment?



How satisfied would you be to continue with your present form of treatment?



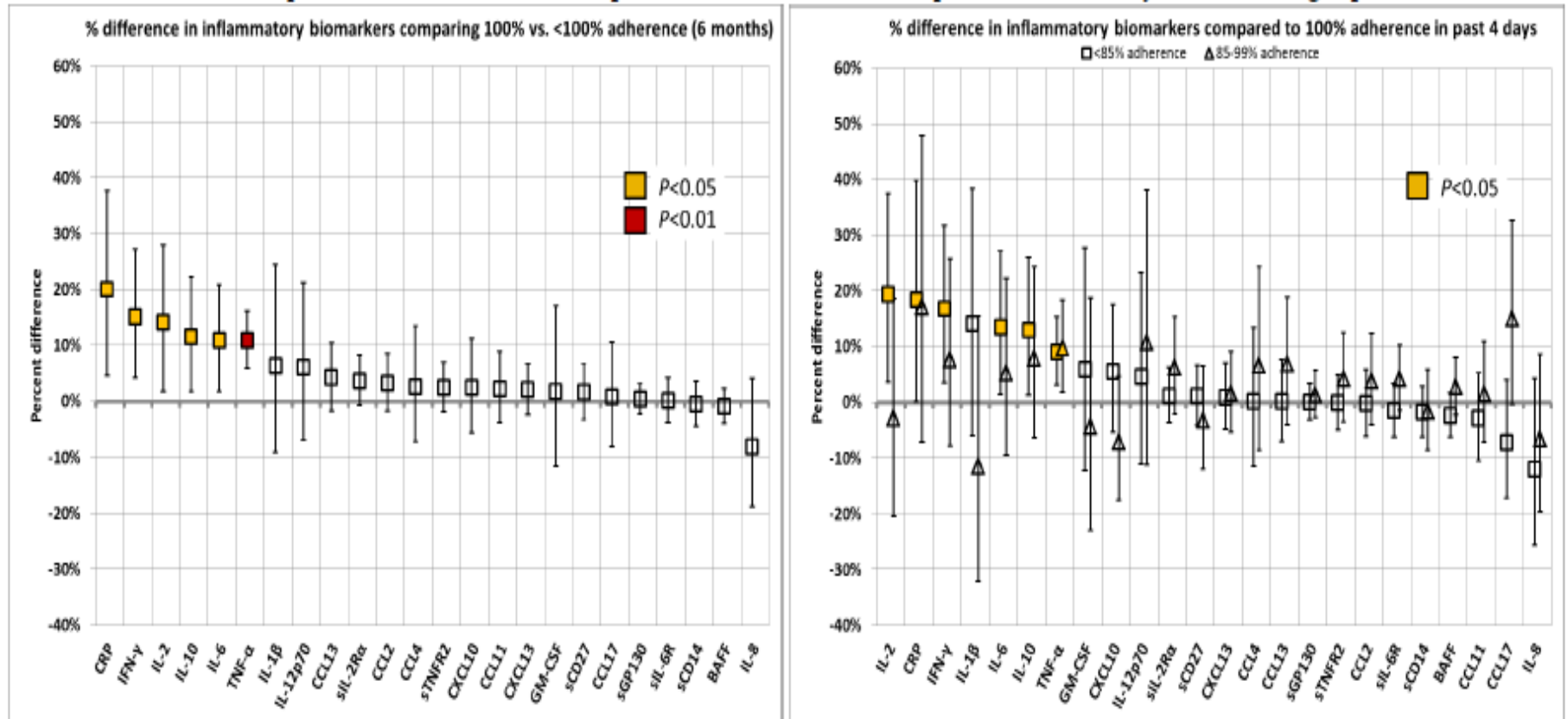
Low ART Adherence Is Associated With Higher Inflammation Despite HIV Suppression

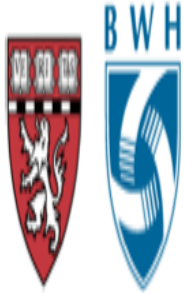
Jose Castillo-Mancilla¹, Todd Brown², Kristine Erlandson¹, Frank J. Palella Jr.³, Edward M. Gardner⁴, Bernard Macatangay⁵, Elizabeth C. Breen⁶, Lisa P. Jacobson², Peter L. Anderson¹, Nikolas Wada²

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Poster # 283

Figure. Estimates from adjusted models: differences in serum biomarker concentrations at visits with self-reported <100% vs. 100% 6-month adherence (left panel); and visits with self-reported <85% and 85-99% compared to 100% 4-day adherence (right panel).





Incomplete Adherence to Antiretroviral Therapy is Associated with Higher Levels of Residual HIV-1 Viremia



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Implications

- Residual HIV-1 viremia may be due to both HIV release from the latent reservoir and active viral replication during incomplete ART adherence.
- ART adherence counseling to counter pill fatigue may have benefits even in the setting of apparently successful virologic suppression.