

Organitza:



Col·laboren:



Aval científic:



Patrocina:



VII Jornada sobre aspectes rellevants de la infecció pel VIH Maneig a l'Atenció Primària i a l'hospital

Actualització en tractament antiretroviral

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Servei de Malalties Infeccioses

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Barcelona, 24 d'octubre de 2024



L'inici del TAR està recomanat per a totes les persones amb VIH, independentment de la xifra de CD4, tan aviat com sigui possible després del diagnòstic.

Update of recommendations on first- and second-line antiretroviral regimens. Geneva, Switzerland: World Health Organization; 2019 (WHO/CDS/HIV/19.15).; EACS Guidelines. Version 11.0. October 2021; Documento de Consenso de GeSIDA/Plan Nacional sobre el SIDA respecto al Tratamiento Antirretroviral en adultos infectados por Virus de la Inmunodeficiencia Humana (Actualización Enero 2022); Antiretroviral Drugs for Treatment and Prevention of HIV Infection in Adults 2020 Recommendations of the International Antiviral Society-USA Panel. JAMA 2020 (Published online October 14, 2020.); DHHS Guidelines for the Use of Antiretroviral Agents in Adults and Adolescents Living with HIV (Last updated September 1, 2022)

The NEW ENGLAND JOURNAL of MEDICINE

ESTABLISHED IN 1812

AUGUST 27, 2015

VOL. 373 NO. 9

Initiation of Antiretroviral Therapy in Early Asymptomatic HIV Infection

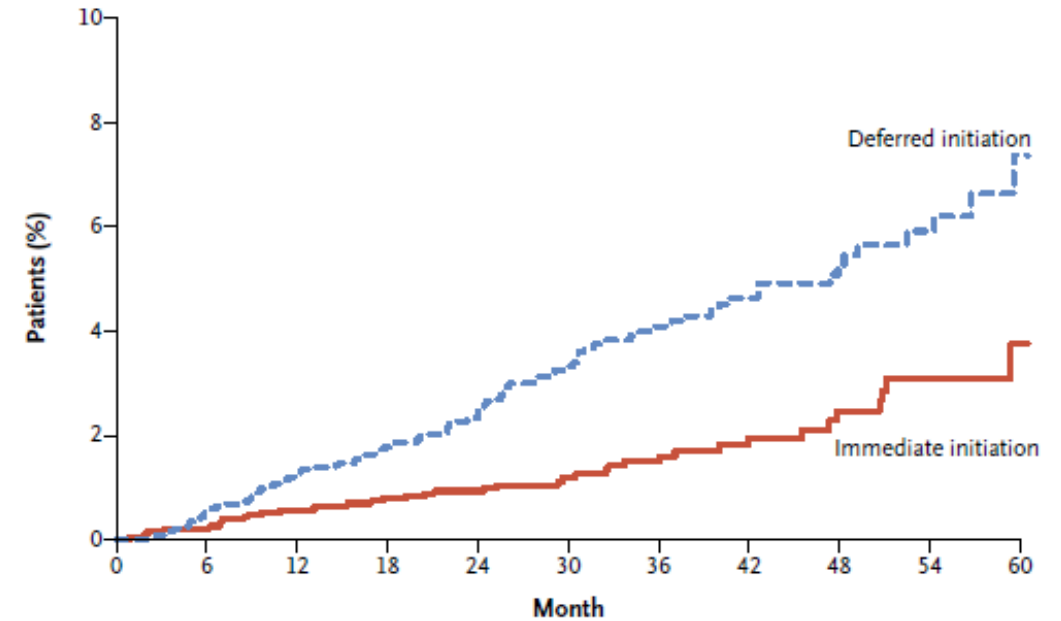
The INSIGHT START Study Group*

Immediate ART in PLWH with CD4
T cell count >500 cells/mL:

57% relative reduction in serious
AIDS-related events, non-AIDS
serious events and death from any
cause

N Engl J Med 2015;373:795-807.

Time to First Primary Event



No. at Risk

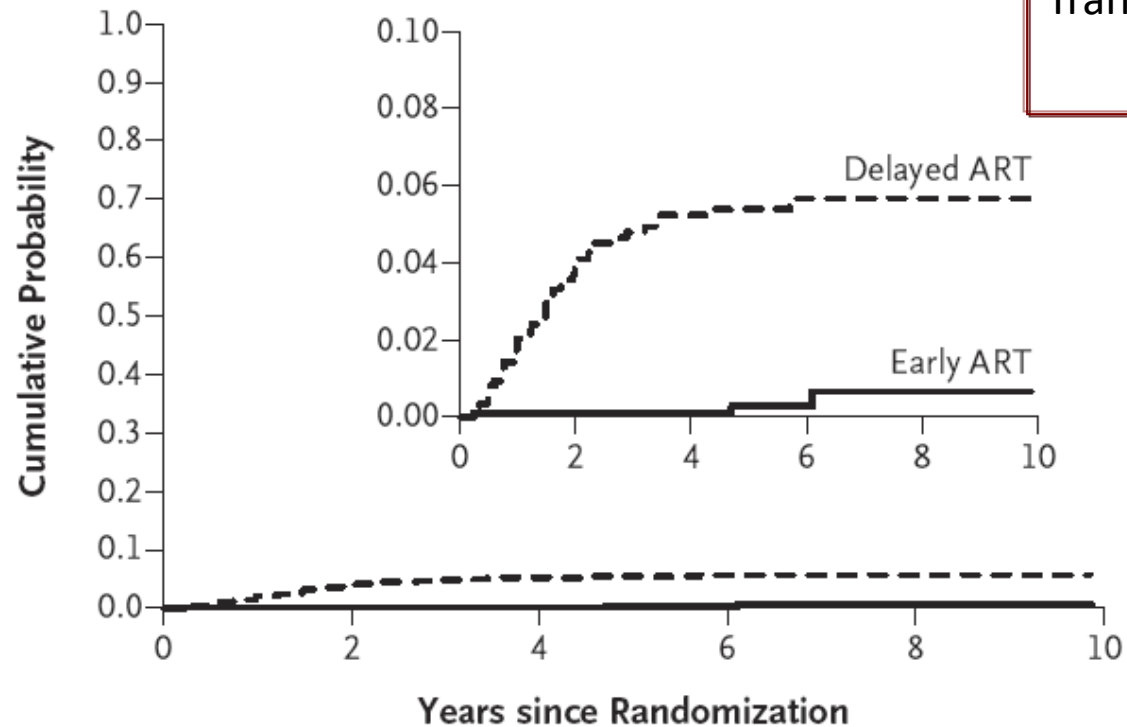
Immediate initiation	2326	2302	2279	2163	1801	1437	1031	757	541	336	110
Deferred initiation	2359	2326	2281	2135	1803	1417	1021	729	520	334	103

Estimated Percentage

Immediate initiation		0.2	0.6	0.8	0.9	1.2	1.5	2.0	2.5	3.1	3.7
Deferred initiation		0.5	1.2	1.8	2.4	3.3	4.1	4.6	5.3	5.9	7.4

Antiretroviral Therapy for the Prevention of HIV-1 Transmission

B Linked Partner Infections



Transmission risk reduction associated to Early ART:

93%

HPTN 052 Study

No. at Risk

Early ART	903	808	746	697	645	569	263	95	28	26	1
Delayed ART	890	792	715	663	611	536	269	99	21	19	2

Cohen MS, et al. N Engl J Med. 2016 Sep 1;375(9):830-9

❖ **Aconseguir i mantenir la màxima supressió de la CV plasmàtica**

- Restablir la funció immunològica
- Reduir la inflamació i la activació immunològica associada al VIH
- Evitar la mortalitat i morbiditat associada al VIH, les malalties definitòries de SIDA altres malalties associades al VIH (cardiovascular, renal, hep`tica deteriorament neuro-cognitiu, neoplàsies no-SIDA, ...)
- Augmentar supervivència
- Millorar la qualitat de vida
- Prevenir la transmissió

Documento de Consenso de GeSIDA/Plan Nacional sobre el SIDA respecto al Tratamiento Antirretroviral en adultos infectados por Virus de la Inmunodeficiencia Humana (Actualización Enero 2022);
DHHS Guidelines for the Use of Antiretroviral Agents in Adults and Adolescents Living with HIV (Accessed July 11, 2022)

6 Currently available Antiretroviral drugs

Nucleo(t)side analogues Reverse Transcriptase Inhibitors (NRTI)

- Tenofovir (TDF and TAF) *
- Lamivudine *
- Emtricitabine *
- Abacavir *
- Zidovudine *
- Didanosine, Estavudine, Zalcitabine

Non-nucleoside Reverse Transcriptase Inhibitors (NNRTI)

- Efavirenz *
- Rilpivirine *
- Nevirapine
- Doravirine *
- Etravirine

Protease Inhibitors (PI)

- Indinavir
- Nelfinavir
- Saquinavir
- (Fos)Amprenavir
- Lopinavir
- Atazanavir
- Tipranavir
- Darunavir *

Entry Inhibitors

- Enfuvirtide
- Maraviroc
- Fostemsavir
- Ibalizumab

Integrase Inhibitors (InSTI)

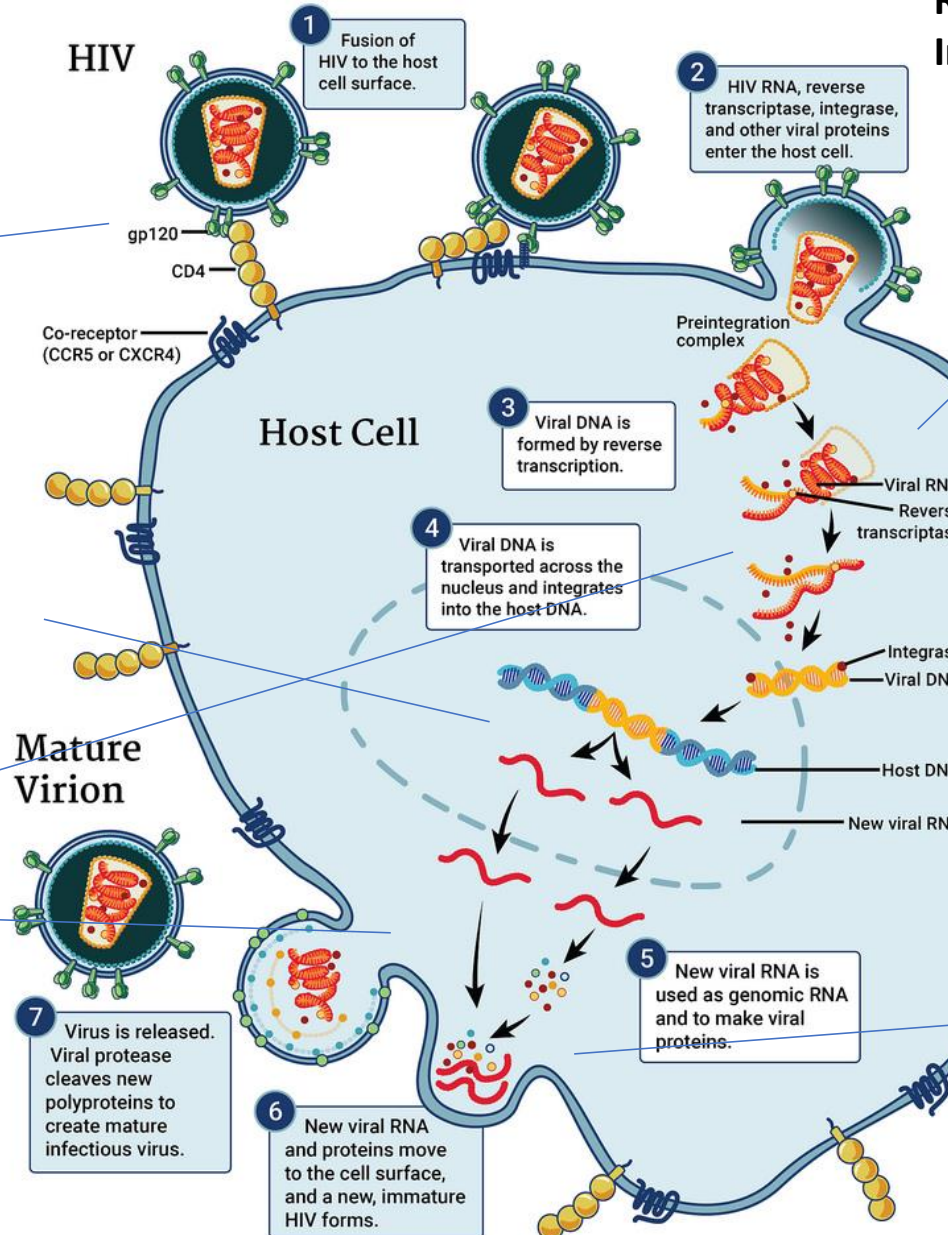
- Raltegravir
- Elvitegravir *
- Dolutegravir *
- Bictegravir *

Capside Inhibitors






- Lenacapavir

* Available as fixed dose combination with other ARV in single pill

www.niaid.nih.gov/diseases-conditions/hiv-replication-cycle



Preferred first-line ART regimens for adults (2024)

 World Health Organization March 2021	 EACS European AIDS Clinical Society October 2023	 GeSIDA January 2023	 DHHS September 2024	 IAS-USA International Antiviral Society-USA December 2022
<p>INSTI + 2 NRTI</p> <p>DTG + 2 NRTI</p>	<p>INSTI + 2 NRTI</p> <p>BIC/FTC/TAF</p> <p>DTG/ABC/3TC or DTG+ABC/3TC (if HLA-B*5701 negative and no HBV coinfection)</p> <p>DTG + FTC/TAF or XTC/TDF</p> <p>RAL + FTC/TAF or XTC/TDF</p> <p>INSTI + 1 NRTI</p> <p>DTG+3TC or DTG/3TC (if HIV-1 RNA < 500,000 c/mL and HBsAg negative Not recommended after PrEP failure)</p> <p>NNRTI + 2 NRTI</p> <p>DOR+FTC/TAF or XTC/TDF or TDF/3TC/DOR</p>	<p>INSTI + 2 NRTI</p> <p>BIC/FTC/TAF (AI)</p> <p>ABC/3TC/DTG (AI) (not recommended if HLA-B*5701 positive or HBV coinfection)</p> <p>DTG + FTC/TAF (AI)</p> <p>INSTI + 1 NRTI</p> <p>DTG/3TC (AI)</p> <p>*Not recommended for individuals with CD4 count <200/uL * Not recommend for individuals with HBV coinfection *Not recommended after PrEP if the results of HIV genotypic resistance testing are not available</p>	<p><i>For people with HIV who do not have a history of using long-acting cabotegravir (CAB-LA) as pre-exposure prophylaxis (PrEP)</i></p> <p>INSTI + 2 NRTI</p> <p>BIC/FTC/TAF (AI)</p> <p>DTG + FTC/TAF (AI) or XTC/TDF (AI)</p> <p>INSTI + 1 NRTI</p> <p>DTG/3TC (AI)</p> <p>(except for individuals with HIV RNA > 500,000 c/mL, HBV coinfection, or for whom ART is to be started before the results of HIV genotypic resistance testing for reverse transcriptase or HBV testing are available)</p>	<p>INSTI + 2 NRTI</p> <p>BIC/FTC/TAF (Ala)</p> <p>DTG + XTC/TFX (Ala)</p> <p>INSTI + 1 NRTI</p> <p>DTG/3TC (Ala)</p> <p>(Only if HIV RNA <500 000 copies/mL and HBV coinfection not present. This regimen should not be used for rapid initiation when genotype, HIV RNA, and HBV serology results are not yet available)</p>

Update of recommendations on first- and second-line antiretroviral regimens. Geneva, Switzerland: World Health Organization; 2019 (WHO/CDS/HIV/19.15).; EACS Guidelines. Version 12.0 October 2023; Documento de Consenso de GeSIDA/División de Control de VIH, ITS, Hepatitis virales y Tuberculosis del Ministerio de Sanidad respecto al Tratamiento Antirretroviral en adultos infectados por Virus de la Inmunodeficiencia Humana (Actualización Enero 2023); Antiretroviral Drugs for Treatment and Prevention of HIV Infection in Adults: 2022 Recommendations of the International Antiviral Society-USA Panel. JAMA. 2022 Dec 1. doi: 10.1001/jama.2022.22246. Epub ahead of print. PMID: 36454551; DHHS Guidelines for the Use of Antiretroviral Agents in Adults and Adolescents Living with HIV (Last updated September 1, 2022)



- Inhibidors de Integrasa
- TAF
- Nous ITINN (Rilpivirina, Doravirina)



- Tenofovir DF
- Abacavir
- Efavirenz/Nevirapina
- Inhibidors de proteasa (Darunavir)

- Pautes amb InSTI considerades actualment preferents coma tractament inicial a totes les Guies de TAR .
- Alts percentatges de supressió de CV, descens de CV més ràpid que altres classes de ARV.
- Bon perfil de toxicitat
- Baix risc d'interaccions farmacològiques (RAL, DTG, BIC)
- Alta barrera a la resistència (DTG, BIC)

Update of recommendations on first- and second-line antiretroviral regimens. Geneva, Switzerland: World Health Organization; 2019 (WHO/CDS/HIV/19.15).; EACS Guidelines. Version 10.1. October 2020;– Documento de Consenso de GeSIDA/Plan Nacional sobre el SIDA respecto al Tratamiento Antirretroviral en adultos infectados por Virus de la Inmunodeficiencia Humana (Actualización Julio 2020); Antiretroviral Drugs for Treatment and Prevention of HIV Infection in Adults 2020 Recommendations of the International Antiviral Society–USA Panel. JAMA 2020 (Published online October 14, 2020.); DHHS Guidelines for the Use of Antiretroviral Agents in Adults and Adolescents Living with HIV (Last updated December 18, 2019)

Tenofovir Alafenamida (TAF)

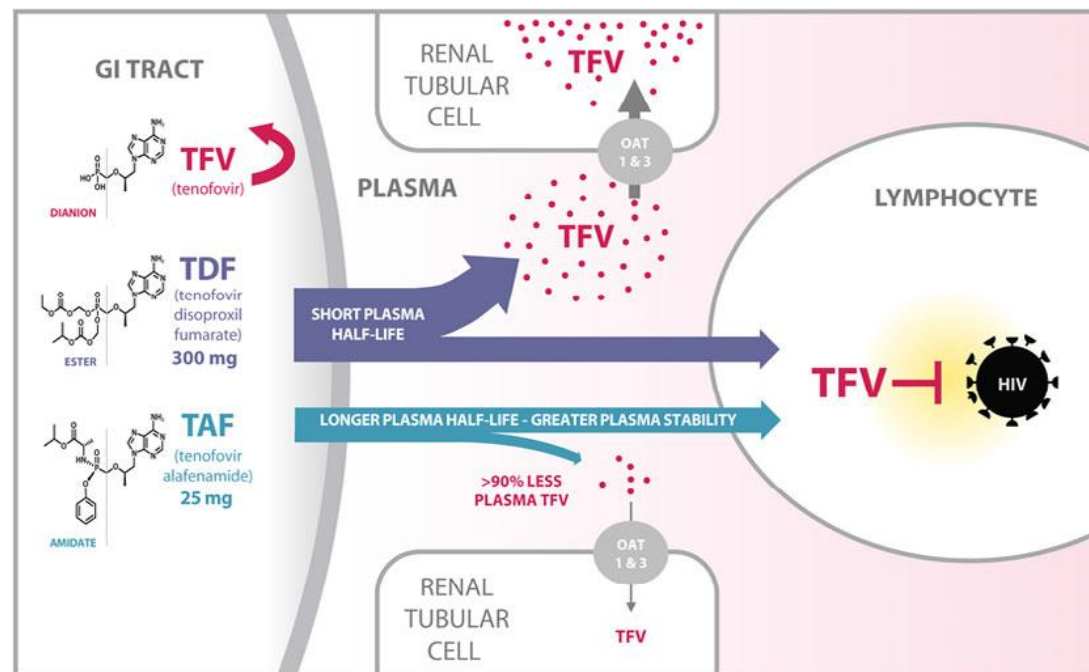
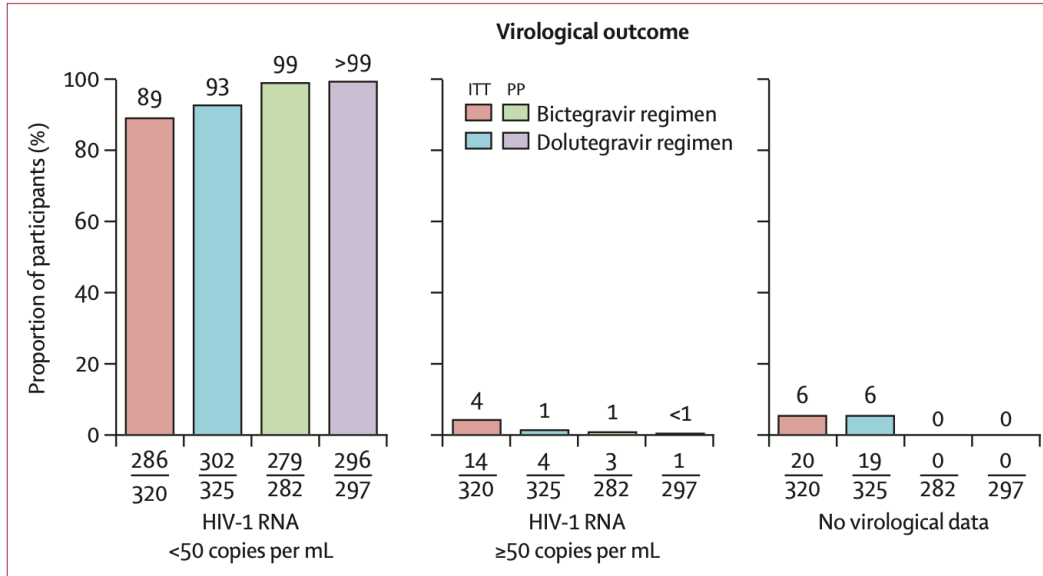


Table 1
In vitro activity and stability of TFV and its prodrugs TDF and TAF.

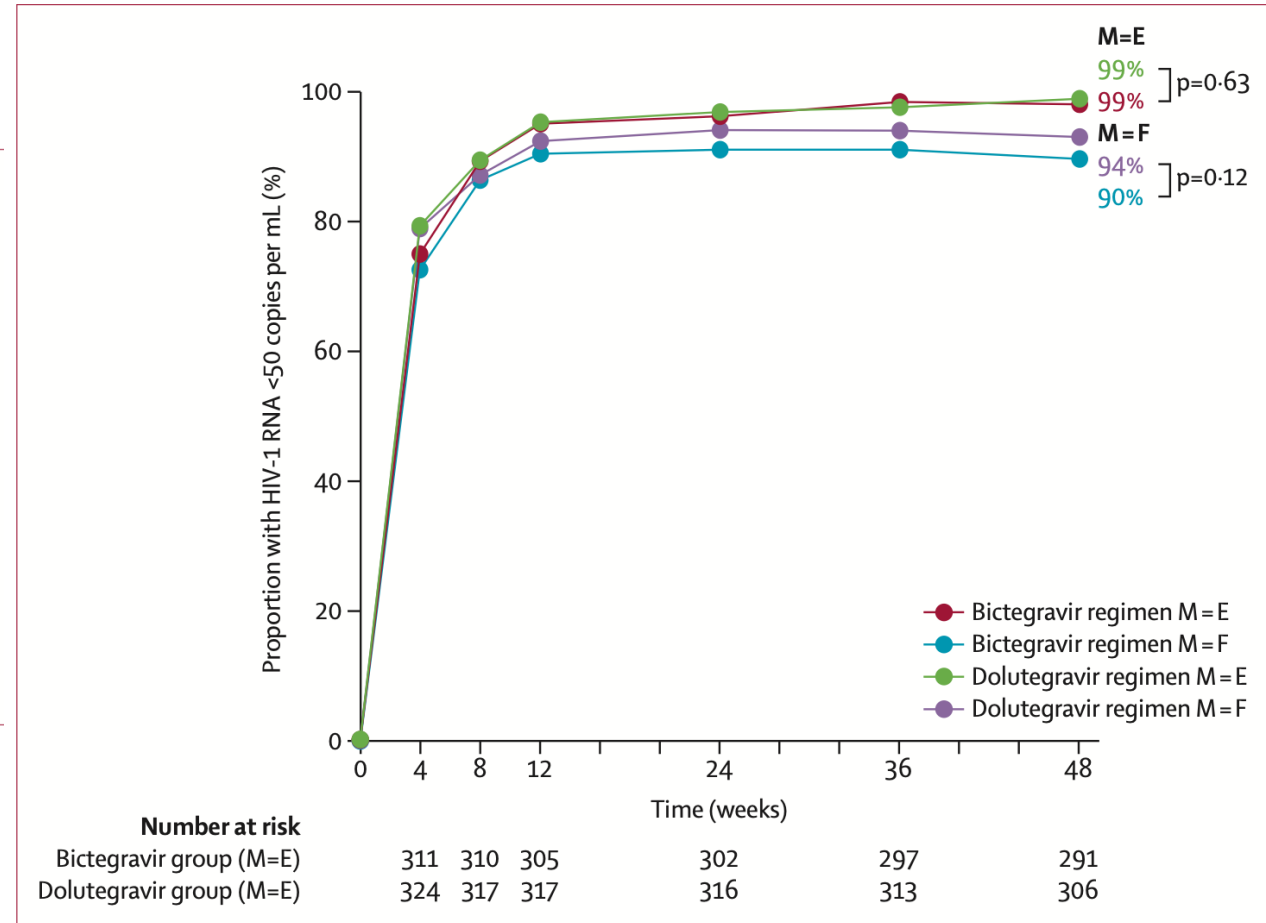
	TFV	TDF	TAF
EC ₅₀ HIV-1 (μM)	5.0	0.05	0.005
Half-life (min)	stable	0.41	90

Antela A, et al. HIV Med. 2016;17 Suppl 2:4-16; Lee WA, et al. Antimicrob Agents Chemother. 2005;49:1898-906. Ruane PJ, et al J Acquir Immune Defic Syndr. 2013;63:449-55. Ray AS, et al. Antiviral Research. 2016; 125:63-70

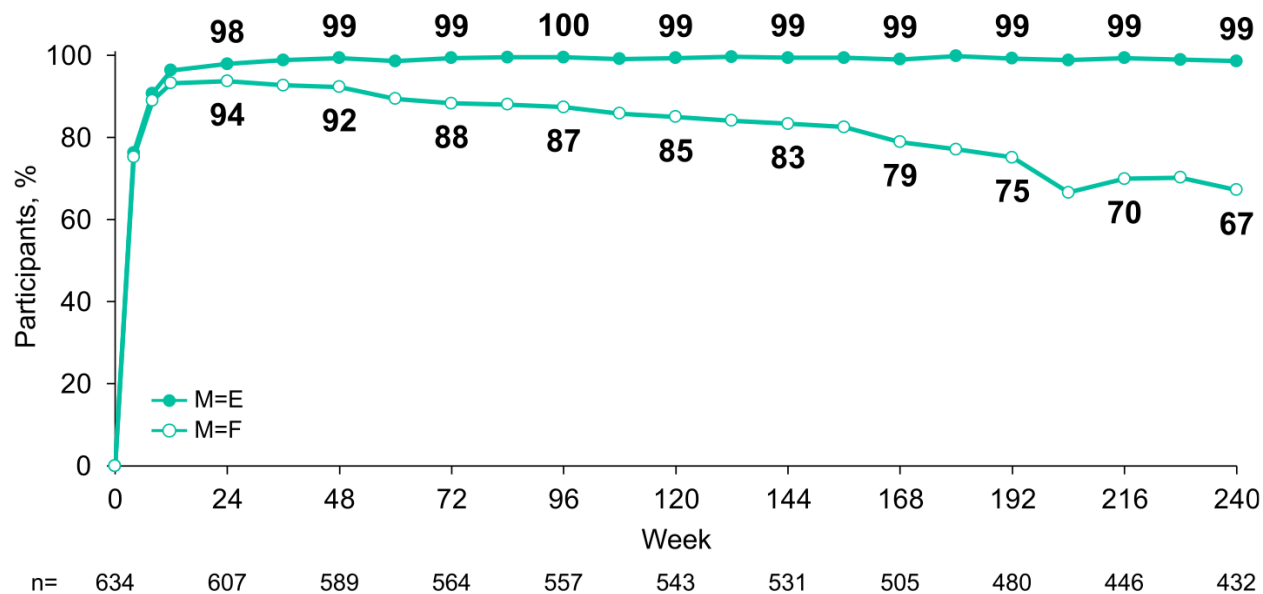
BIC/FTC/TAF vs DTG+FTC/TAF



No treatment-emergent resistance to any study drug was observed



Sax PE, et al. Lancet 2017; 390: 2073–82



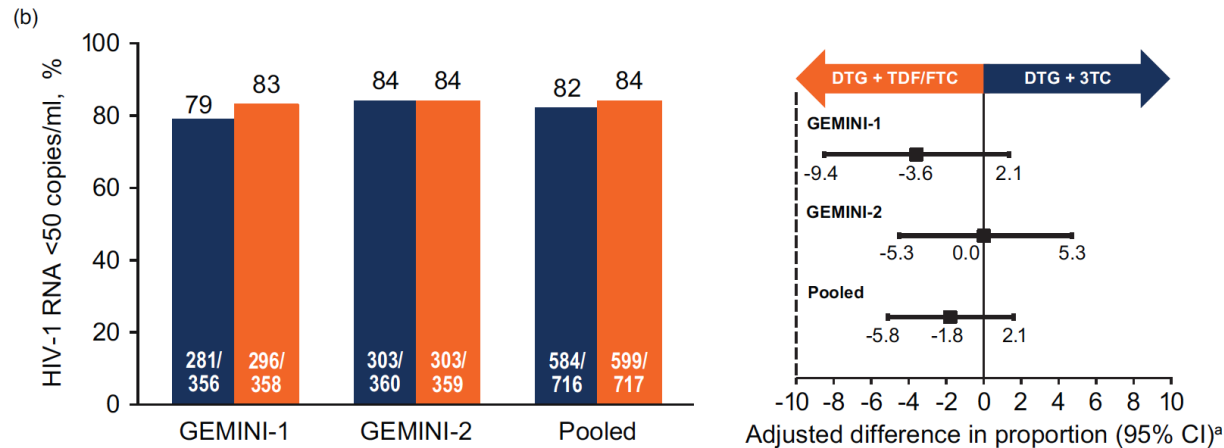
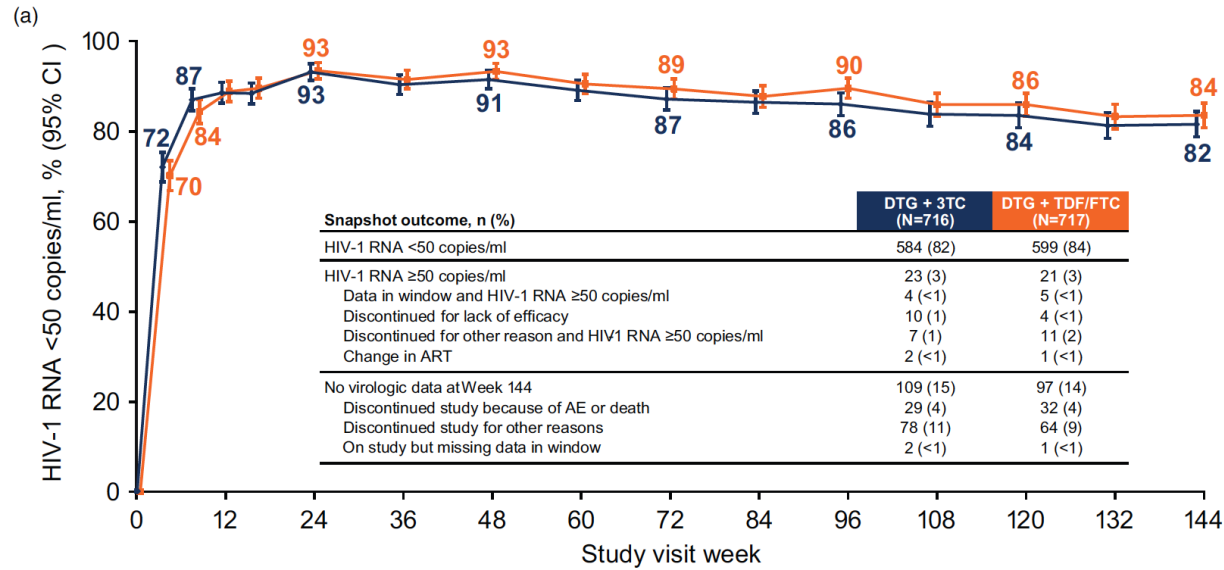
Study-drug related serious AE 5 (0.8%)

Any study-drug related AE leading to discontinuation 5 (0.8)

Virological Failure:
9 participants met criteria for resistance testing
0 resistance to any component of B/F/TAF

Dual ART as first-line therapy: DTG+ 3TC

GEMINI I & II
Phase III RCT



Cahn P, et al. AIDS 2022, 36:39–48

- Confecció per VHB
- Resistència basal
- Diagnòstic de VIH durant PrEP

EACS Guidelines. Version 11.0. October 2021; Documento de Consenso de GeSIDA/Plan Nacional sobre el SIDA respecto al Tratamiento Antirretroviral en adultos infectados por Virus de la Inmunodeficiencia Humana (Actualización Enero 2022); Antiretroviral Drugs for Treatment and Prevention of HIV Infection in Adults 2020 Recommendations of the International Antiviral Society–USA Panel. JAMA 2020 (Published online October 14, 2020.); DHHS Guidelines for the Use of Antiretroviral Agents in Adults and Adolescents Living with HIV (Last updated September 1, 2022)

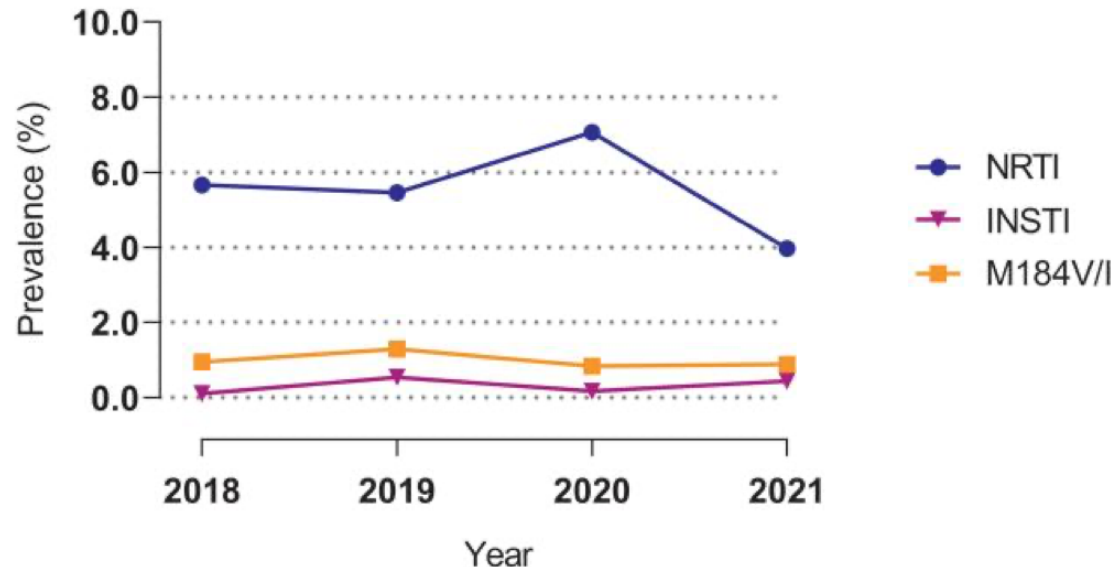
Clinical Infectious Diseases

MAJOR ARTICLE




OXFORD

Transmitted Drug Resistance to Integrase-Based First-Line Human Immunodeficiency Virus Antiretroviral Regimens in Mediterranean Europe



Salazar A, et al. Clin Infect Dis. 2023 May 3;76(9):1628-1635.

France, Greece, Italy, Portugal, and Spain

2018–2021

N=2705 PWH, 72% men, median age 37 years

43.7% non-B subtypes.

Integrase Strand Transfer Inhibitor and Nucleoside/Nucleotide Reverse Transcriptase Inhibitor Clinically Relevant Resistance to First-Line Drugs, (as Defined by the Stanford Algorithm v9.1)

Integrase Strand Transfer Inhibitor	n (%)	95%CI
Raltegravir	62 (2.29)	1.76%–2.93%
Elvitegravir	62 (2.29)	1.76%–2.93%
Dolutegravir	4 (0.15)	.04%–.38%
Bictegravir	4 (0.15)	.04%–0.38%
Total	63 (2.33)	1.80%–2.97%
Nucleoside/Nucleotide Reverse Transcriptase Inhibitor		
Tenofovir alafenamide	24 (0.89)	.57%–1.32%
Abacavir	47 (1.74)	1.28%–2.31%
Lamivudine/Emtricitabine	29 (1.07)	.72%–1.53%
Total	47 (1.74)	1.28%–2.31%

Abbreviation: CI, confidence interval.

HIV-1 Incidence, Adherence, and Drug Resistance in Individuals Taking Daily Emtricitabine/Tenofovir Disoproxil Fumarate for HIV-1 Pre-Exposure Prophylaxis: Pooled Analysis From 72 Global Studies

IN THIS ANALYSIS



72 pooled studies conducted across 28 countries, between June 2011 and September 2019



Total of 17,274 participants

STUDY INTERVENTION



Emtricitabine/tenofovir disoproxil fumarate (F/TDF) for HIV-1 pre-exposure prophylaxis (PrEP)

OBJECTIVES

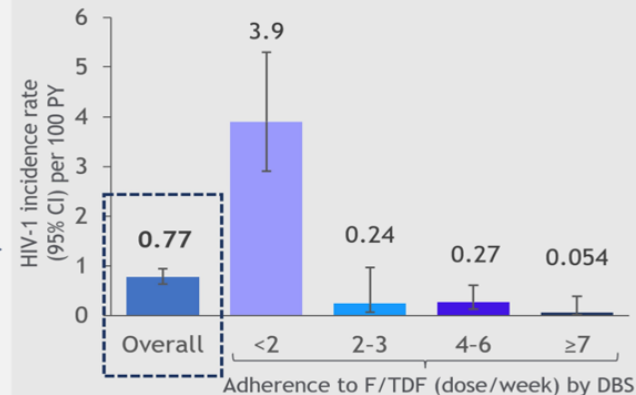


To evaluate HIV-1 incidence, drug resistance, adherence, and bone and renal safety in diverse settings

FINDINGS

1 HIV-1 incidence rate

Overall HIV-1 incidence rate was low; of 17,274 individuals, 101 acquired HIV-1



Most new diagnoses occurred in individuals with low adherence, confirming a dose-dependent relationship between adherence and protective efficacy of F/TDF

CI, confidence interval; DBS, dried blood spots; F/TDF, emtricitabine/tenofovir disoproxil fumarate; PY, person-years

2 F/TDF resistance

Mutations associated with emtricitabine and/or TDF resistance were detected in n=22 (0.13%) participants



In some participants with available resistance data, the presence of mutations associated with resistance to other HIV-1 drugs suggests transmission of resistant virus

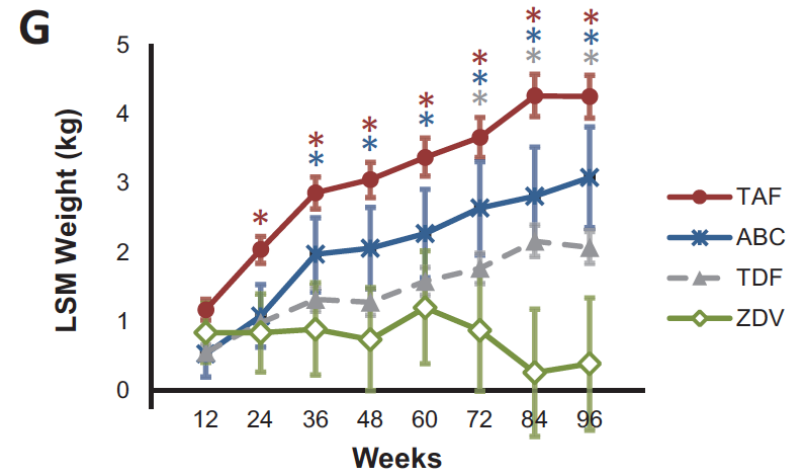
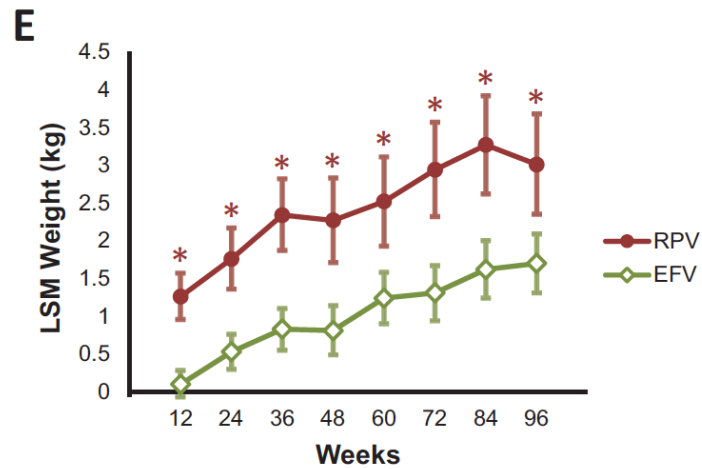
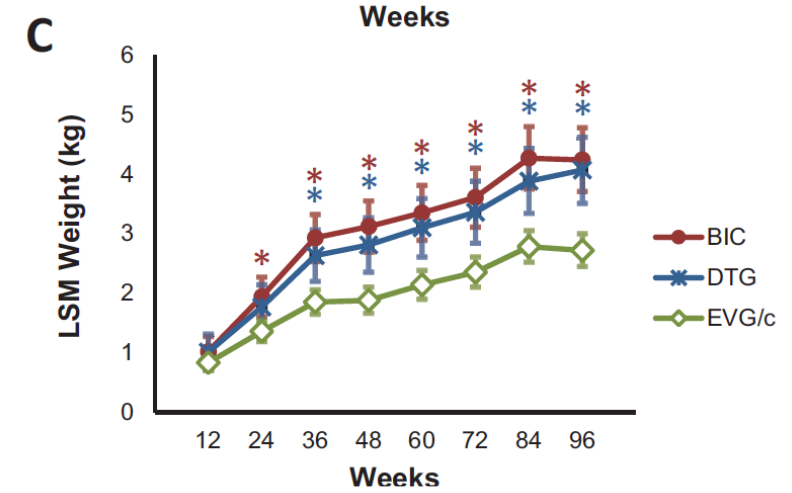
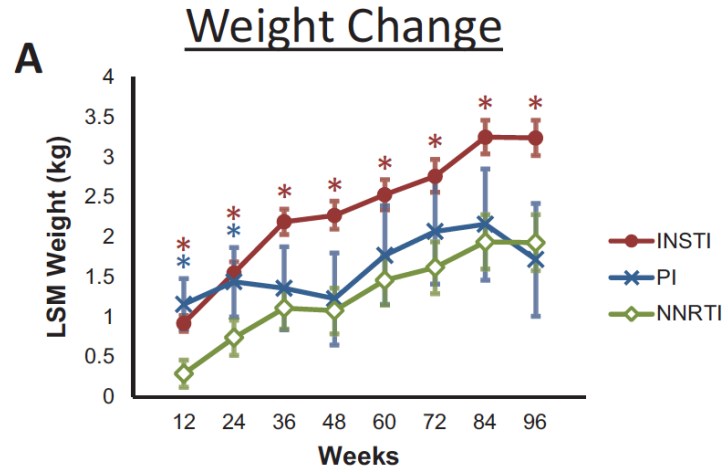


In some participants, resistance was suspected due to unrecognized baseline HIV-1 infections

Landovitz RJ, et al. Clin Infect Dis. 2024 Mar 14:ciae143. doi: 10.1093/cid/ciae143. Epub ahead of print.

Per què continuar investigant en TAR

- El TAR s'ha de mantenir sense interrupció i (actualment) tota la vida
- Reduir toxicitat
- Millorar adherència
- Hi ha persones amb opcions de tractament reduïdes per resistència o toxicitat de tractaments previs
- Millorar qualitat de vida



Sax P, et al. Clin Infect Dis 2020;71:1380–9

I

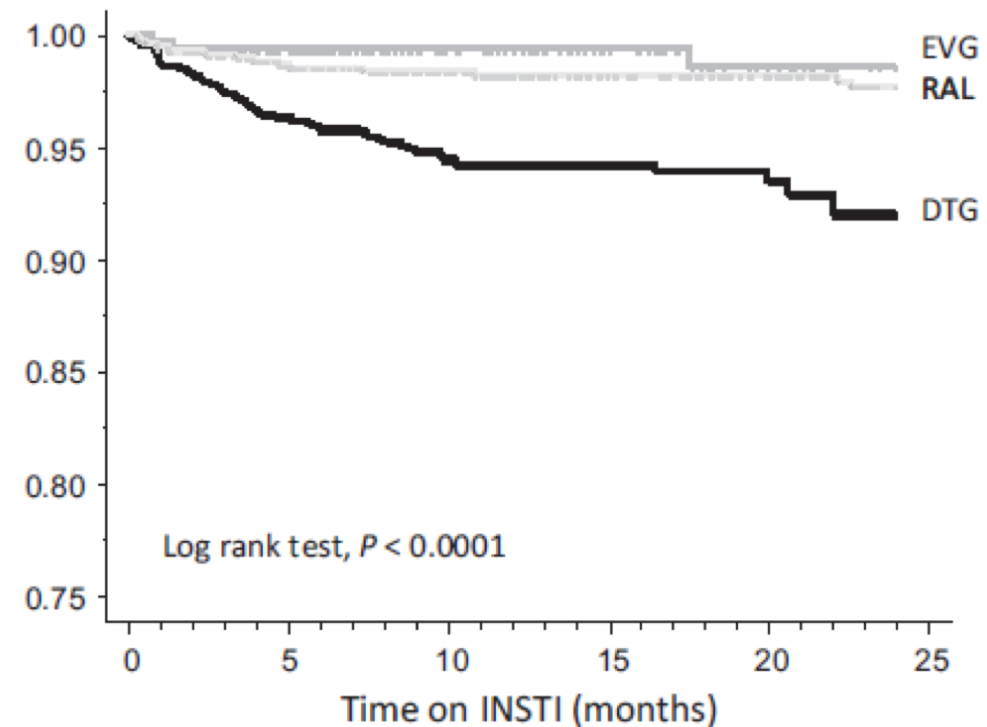
Variable	OR	(95% CI)	PValue
CD4 count (<200 vs ≥200 cells/all)	4.36	(3.6–5.27)	<.001
HIV RNA (>100K vs ≤100K copies/mL)	1.98	(1.65–2.37)	<.001
BMI			
Normal vs overweight	1.54	(1.27–1.87)	<.001
Normal vs obese	1.66	(1.29–2.15)	<.001
Sex (female vs male)	1.54	(1.21–1.96)	<.001
Race (black vs non-black)	1.32	(1.10–1.59)	.003
Third ART agent			
BIC/DTG vs EFV	1.82	(1.24–2.66)	.002
EVG/c vs EFV	1.36	(1.04–1.78)	.026
RPV vs EFV	1.51	(1.03–2.20)	.035
ATV/r vs EFV	0.92	(.59–1.45)	.73
NRTI			
TAF vs ZDV	1.75	(1.04–2.95)	.034
TDF vs ZDV	1.19	(.76–1.87)	.44
ABC vs ZDV	0.93	(.47–1.8)	.82
TAF vs ABC	1.9	(1.25–2.88)	.003
TDF vs ABC	1.29	(.79–2.11)	.31
TAF vs TDF	1.47	(1.14–1.90)	.003

Sax P, et al. Clin Infect Dis 2020;71:1380–9

Efectes Adversos neuro-psiquiàtrics dels Inhibidors de Integrasa

Retrospective analysis of PLWH initiating INSTI from two large Clinics in Germany (2007-2016)

	Dolutegravir	Elvitegravir	Raltegravir
All AEs leading to discontinuation over entire follow-up period			
Renal [% (n)]	0.2 (2)	3.5 (10)	0.0 (0)
Gastrointestinal [% (n)]	0.7 (7)	2.8 (8)	0.9 (6)
Hepatic [% (n)]	0.1 (1)	0.0 (0)	0.1 (1)
Skin [% (n)]	0.3 (3)	0.7 (2)	0.1 (1)
Other [% (n)]	0.5 (5)	1.4 (4)	0.9 (6)
Neuropsychiatric [% (n)]	5.0 (49)	1.0 (3)	2.1 (14)
Neuropsychiatric adverse events*			
Insomnia, sleep disturbances	36	2	4
Poor concentration, slow thinking	8	0	0
Dizziness	13	1	3
Headache, paraesthesia	16	1	6
Depression	7	0	1



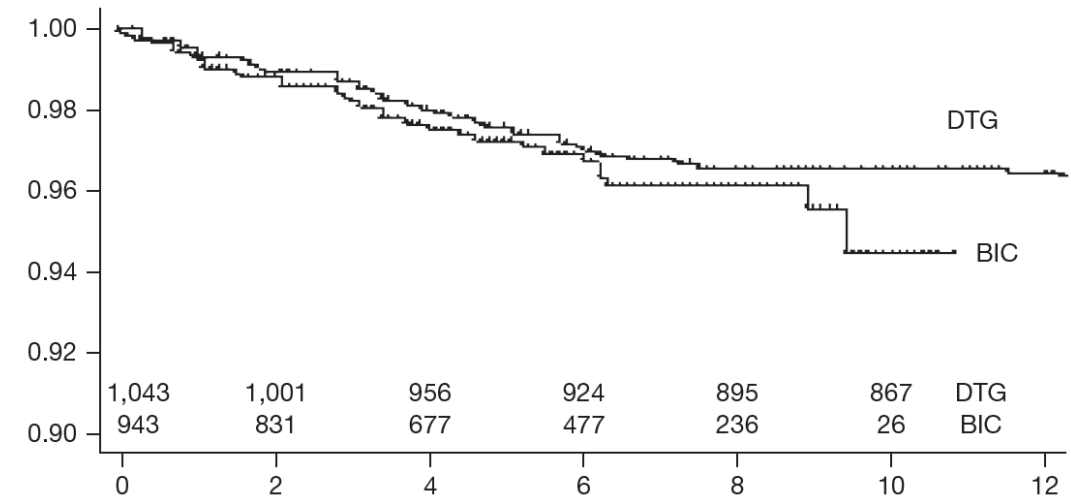
Hoffmann C, et al. HIV Med. 2017 ;18:56-63

Efectes Adversos neuro-psiquiàtrics dels Inhibidors de Integrassa

Table 1. Numbers and characteristics of patients initiated on BIC/F/TAF and the proportion of patients with any AE or with NPAEs leading to drug discontinuation

	All patients	Patients discontinuing BIC/F/TAF due to	
		Any AE	NPAEs
All patients	943	5.3 (50)	3.3 (31)
Subcentre ICH-S, % (n)	456	8.6 (39)	5.9 (27)
Subcentre ICH-G, % (n)	487	2.3 (11)	0.8 (4)
Gender, ethnicity, age, CD4⁺ T-cells			
Male, % (n)	852	5.5 (47)	3.4 (29)
Female gender, % (n)	76	3.9 (3)	2.6 (2)
Transgender/diverse, % (n)	15	0.0 (0)	0.0 (0)
Caucasian origin, % (n)	805	5.6 (45)	3.4 (27)
Median age, years (range)	50.2 (19.2–85.7)	50.2 (32.1–80.3)	50.4 (32.1–64.3)
Older age >60 years, % (n)	151	4.6 (7)	2.6 (4)
Median CD4 ⁺ T-cells/μl (range)	667 (0–1,981)	643 (113–1,575)	625 (227–1,575)
Treatment line			
First-line, % (n)	62	3.2 (2)	3.2 (2)
TE, % (n)	881	5.4 (48)	3.3 (29)
TE, HIV RNA <50 copies/ml, % (n)	826	5.1 (42)	3.3 (27)
TE, HIV RNA >50 copies/ml, % (n)	55	9.1 (5)	3.6 (2)
Prior DTG exposure			
None	496	4.8 (24)	3.0 (15)
Exposure without AEs	392	4.6 (18)	2.8 (11)
Discontinuation due to NPAEs	35	17.1 (6)	11.4 (4)
Discontinuation due to other AEs	20	10.0 (2)	5.0 (1)
Neuropsychiatric diagnoses			
Major depression	184	9.8 (18)	6.5 (12)
Other psychiatric disorders ^a	58	8.6 (5)	1.7 (1)
None	701	3.9 (27)	2.6 (18)

Hoffmann C, et al. Antivir Ther. 2020;25:83-90



Gehan-Breslow-Wilcoxon test. $P=0.36$

UGT1A1

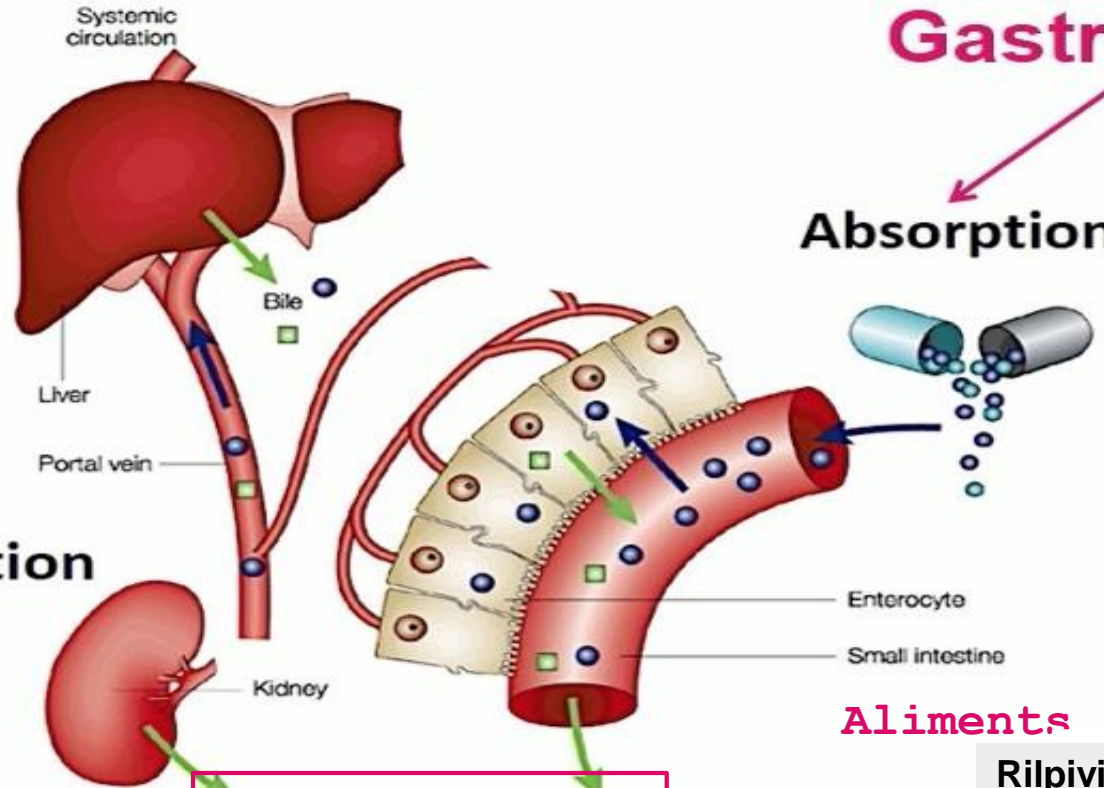
Inhibidors de integrasa

CYP3A4

Inhibidors de Proteasa
ITINN
EVG/c

(Inhibidors de Integrasa 2^aG)

Metabolism



Excretion

Transportadors renals:

- OCT2
- MATE1

DTG, BIC

Proteïnes de membrana
Glicoproteïna P

TAF

Suplements minerals

Inhibidors de integrasa

Rilpivirina

Inhibidors CYP3A4

IP/p

Ritonavir
Cobicistat

Inductors CYP3A4

EFV
NVP
ETR

Interaccions farmacològiques amb Inhibidors de Integrassa

UGT1A1

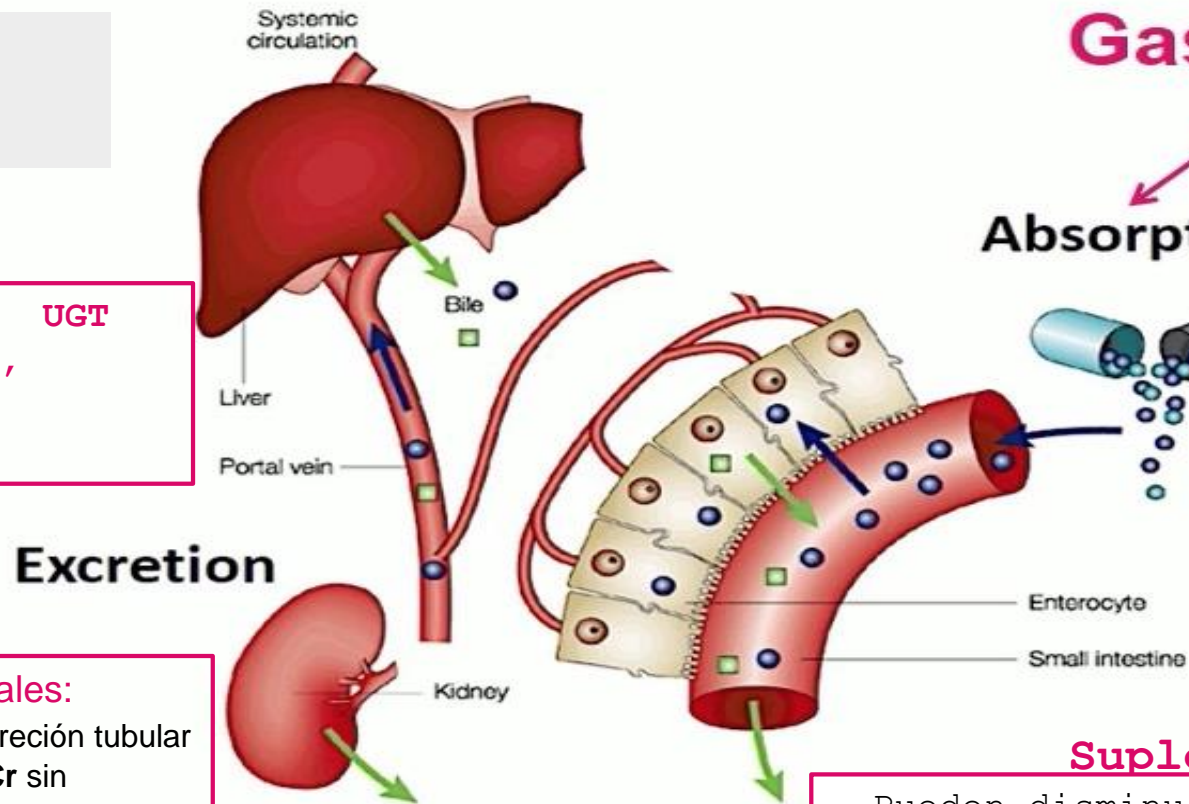
BIC y DTG, en mucho menor grado, por CYP3A4.

Inductores potentes de CYPs, UGT y Transportadores de fármacos, disminuyen concentraciones
Requiere aumentar dosis

DTG, BIC inhiben transportadores renales:

- **OCT2** (organic cationic transporter 2), secreción tubular de algunos fármacos y de Cr (aumento de Cr sin trascendencia renal)
 - **MATE1** implicado en la eliminación de Metformina
- Aumenta la concentración de Metformina (monitorizar si insuficiencia renal)**

Metabolism



Gastric pH

Absorption

Suplementos minerales

Pueden disminuir la absorción.
se debe administrar:
2h ante o 6 h después de estos productos.

Canvis de TAR en PVIH amb CV suprimida

- Toxicitat
- Prevenció de toxicitat
- Interaccions
- Simplificació (objectiu: millorar adherència, qualitat de vida..)
 - Menys pastilles
 - Menys fàrmacs
- Reducció del cost econòmic
- TAR “*Long-Acting*”

Canvis de TAR en PVIH amb CV suprimida

2 NRTI + ITINN

2 NRTI + IP/p

2 NRTI + INI



RPV/FTC/TAF

DOR/3TC/TDF* (DOR+FTC/TAF)

DTG+FTC/TAF

BIC/FTC/TAF

RAL + FTC/TAF

DTG/3TC

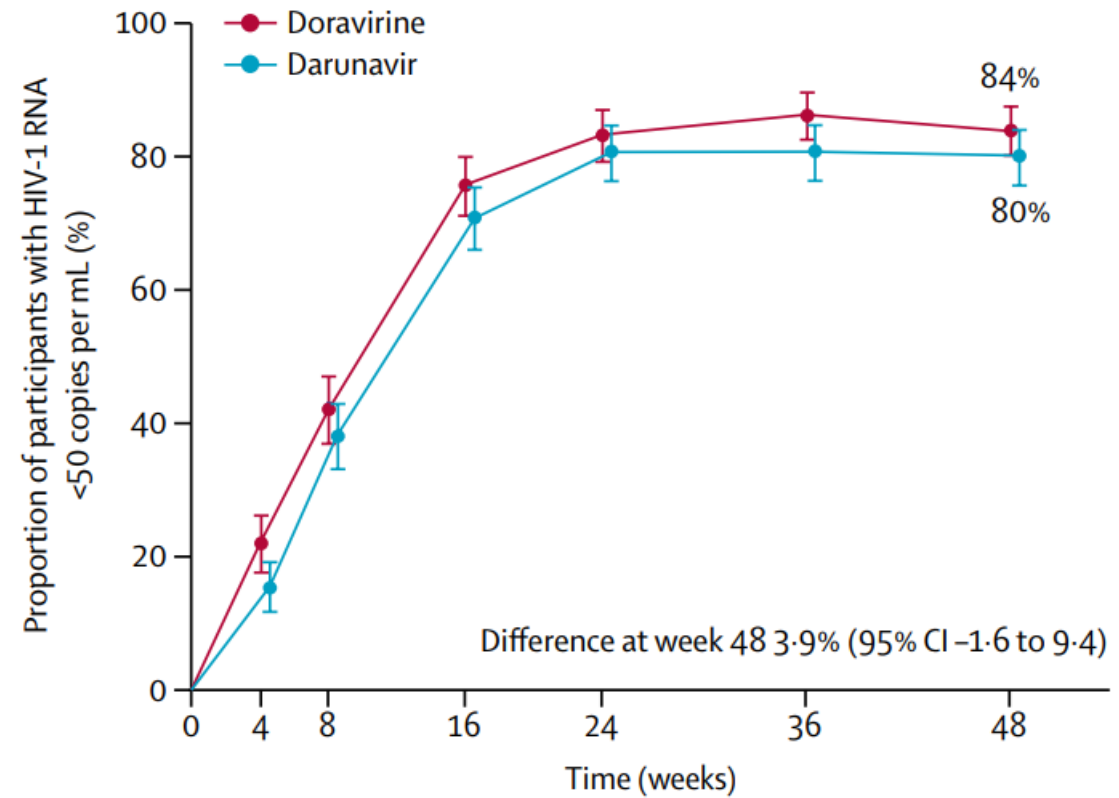
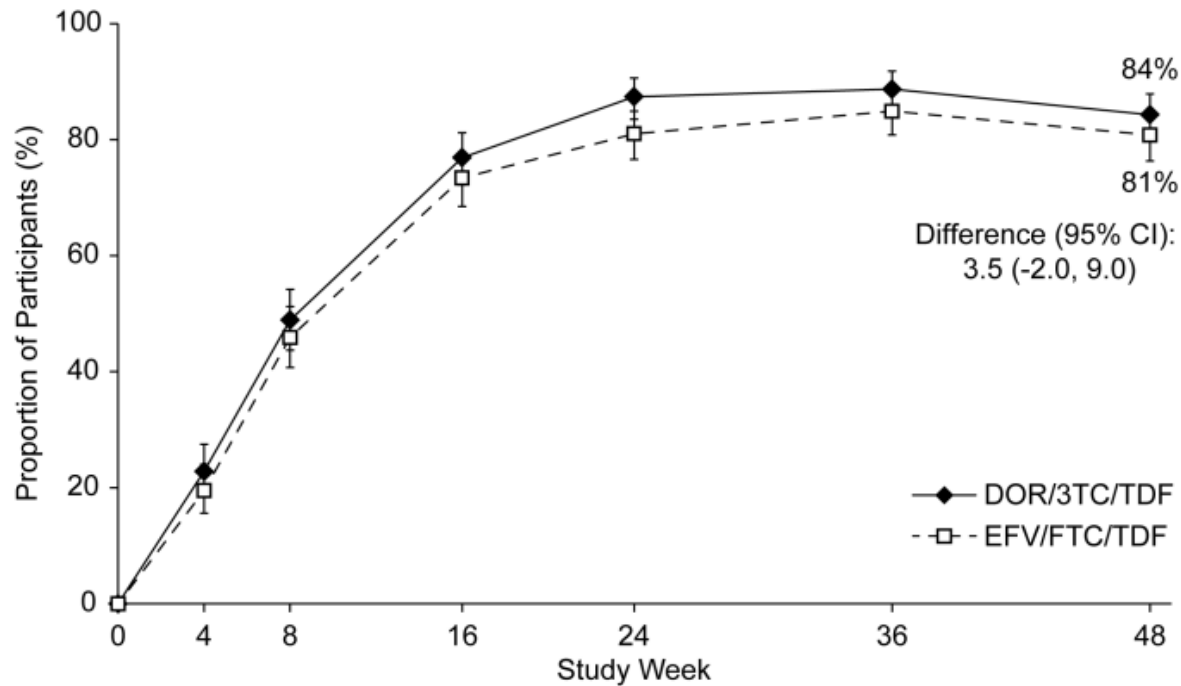
DTG/RPV

[DRV/cobi/FTC/TAF
DRV/c+3TC]

CAB + RPV LA im

Doravirine/Lamivudine/Tenofovir Disoproxil Fumarate is Non-inferior to Efavirenz/Emtricitabine/Tenofovir Disoproxil Fumarate in Treatment-naive Adults With Human Immunodeficiency Virus-1 Infection: Week 48 Results of the DRIVE-AHEAD Trial

Doravirine versus ritonavir-boosted darunavir in antiretroviral-naive adults with HIV-1 (DRIVE-FORWARD): 48-week results of a randomised, double-blind, phase 3, non-inferiority trial



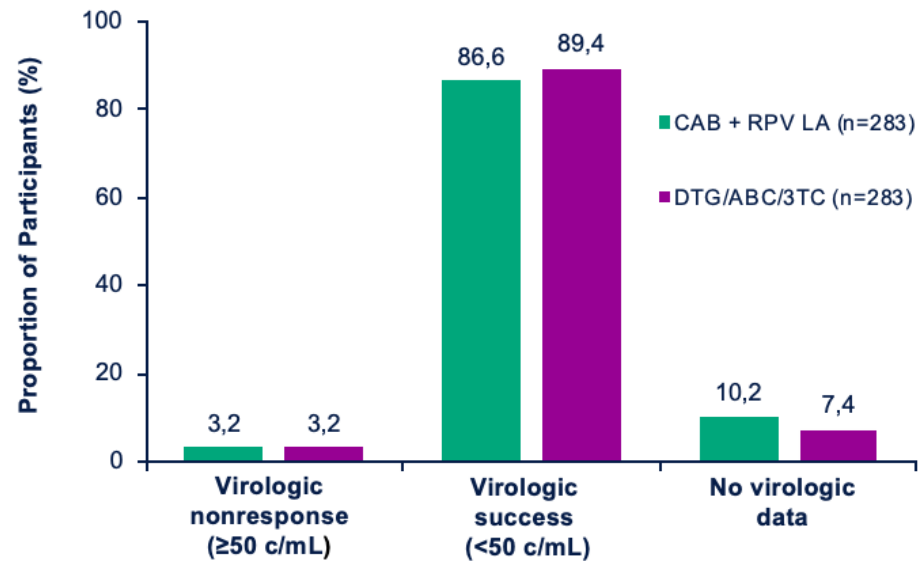
Orkin C, et al. Clin Infect Dis. 2019;68(4):535-544. Molina JM, et al. Lancet HIV. 2018;5(5):e211-e220.

DORAVIRINA

- Eficàcia (naïve i canvis amb CV suprimida)
- Simplicitat
- Bon perfil de seguretat
- Bon perfil d'interaccions
- Perfil de resistències different a altres ITINN

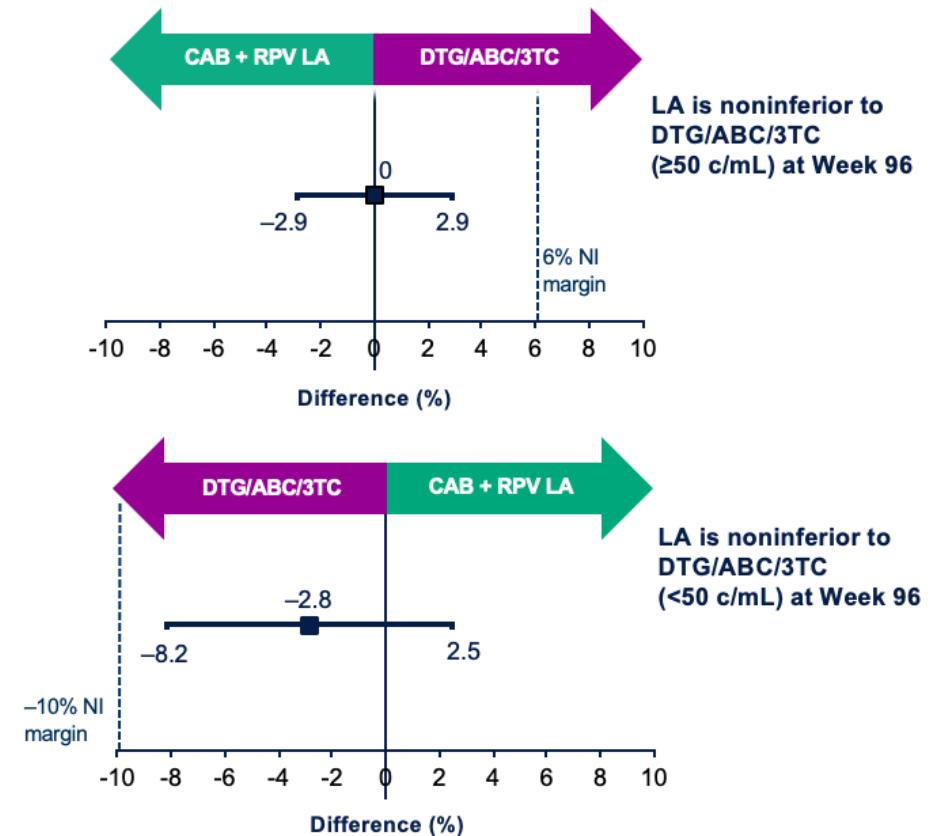
FLAIR Week 96 Virologic Response

Virologic Outcomes



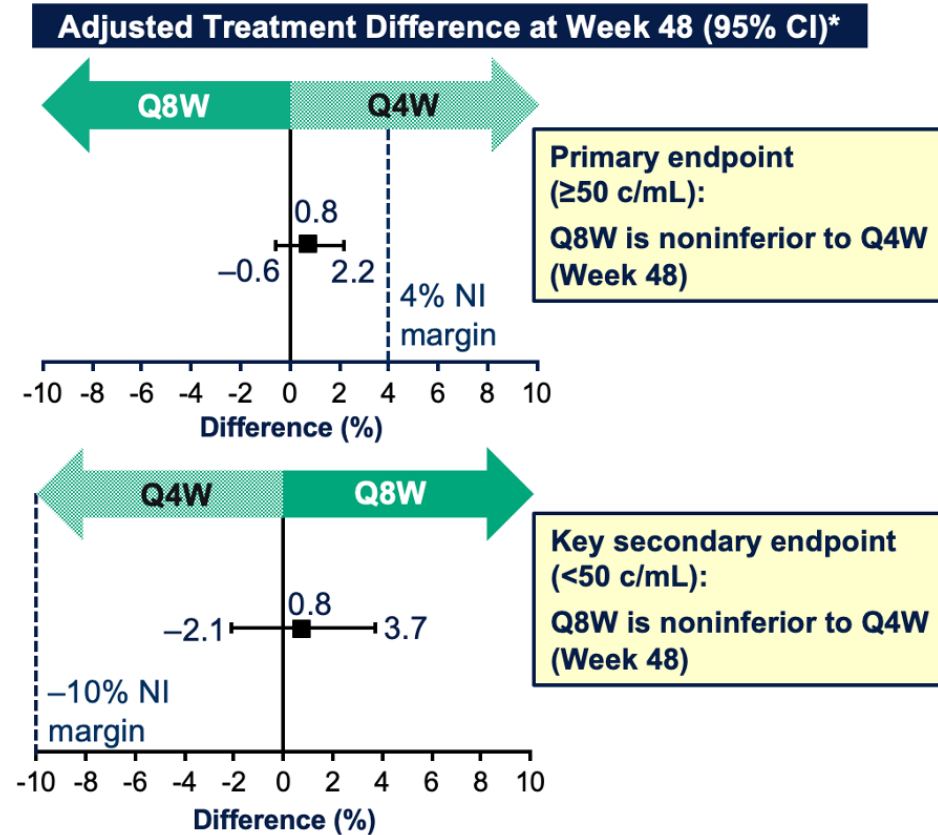
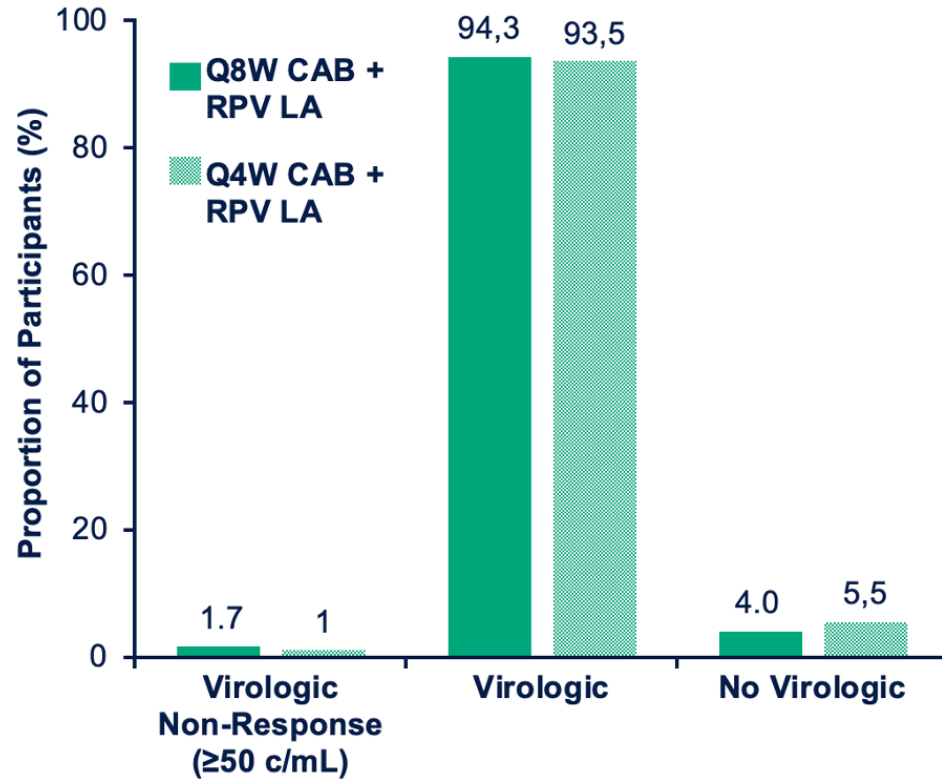
*Adjusted for sex and baseline HIV-1 RNA (< vs. ≥100,000 c/mL).

Adjusted Treatment Difference (95% CI)*



Orkin C, et al. Lancet HIV. 2021 Apr;8(4):e185-e196; Orkin et al. CROI 2020; Boston, MA. Poster 482LB.

TAR long-acting per via intramuscular



Overton ET, et al. Lancet. 2021 Dec 19;396(10267):1994-2005; Overton et al. CROI 2020; Boston, MA. Presentation 334.

Factors associated with risk of virologic failure

Overall, **1.25%** (n=13/1039) of participants in RCT experienced CVF

Significantly associated (p<0.05) with increased odds of CVF:

- Proviral RPV resistance-associated mutations (RAMs)
- HIV-1 subtype A6
- Higher body mass index
- Lower Week 8 RPV trough concentrations

Few participants (0.4%) with zero or 1 baseline factor had CVF. Only a combination of ≥ 2 baseline factors (observed in 3.4%; n=35/1039) was associated with increased CVF risk (25.7%, n=9/35).

Outcome, n (%), ITT-E	Q8W (n=522)	Q4W (n=523)
Number of injections	8470	15,711
Number of ISR events (events/injections)*	2507 (30)	3152 (20)
Grade ≥ 3 – severe [†]	43 (<1)	48 (<1)
Injection site reactions [‡]		
Pain	2014 (24)	2567 (16)
Nodule	113 (1)	204 (1)
Discomfort	92 (1)	110 (1)
Withdrawals due to injection- related reasons, participant n (%) [§]	6 (1)	11 (2)

Long-Acting Injectable CAB/RPV is Superior to Oral ART in PWH With Adherence Challenges: ACTG A5359

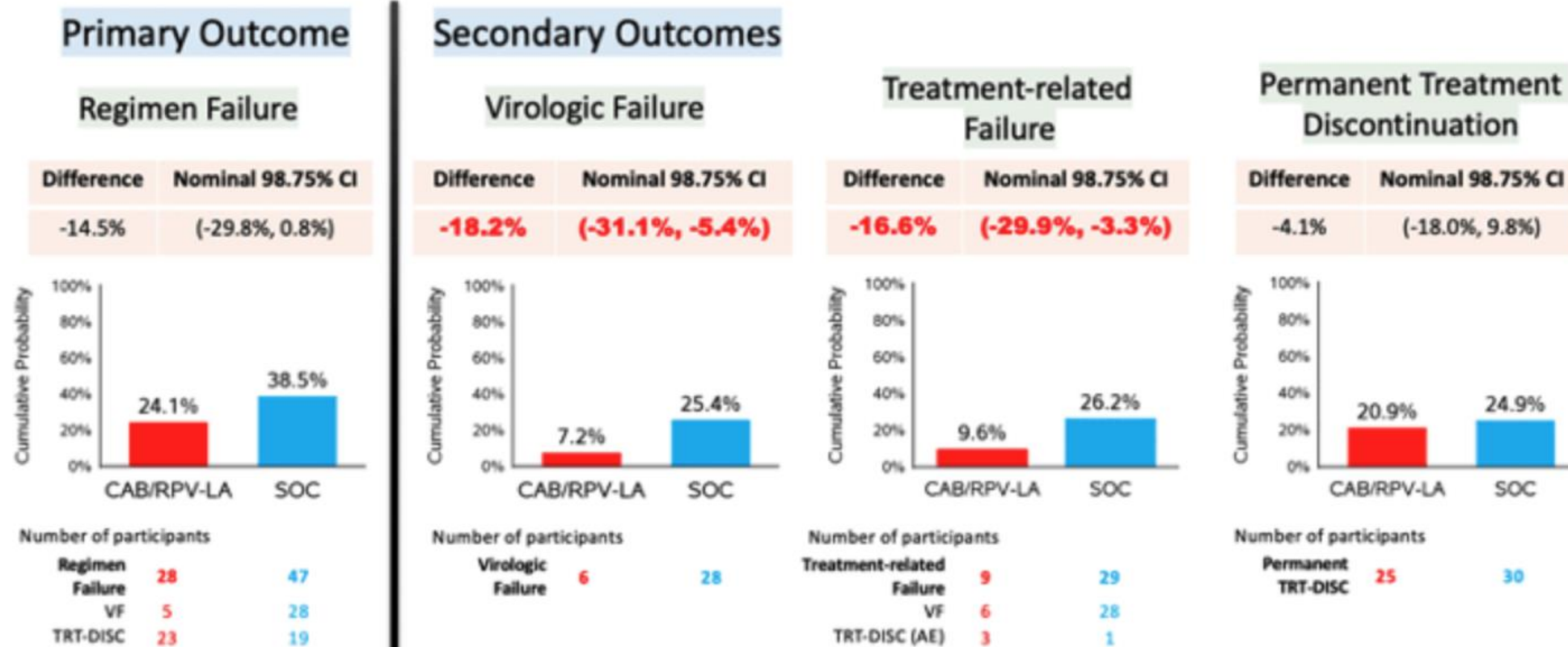
Aadia I. Rana

University of Alabama at Birmingham, Birmingham, AL, USA

Phase III, prospective, randomized, open-label trial

CAB+RPV LA monthly (n=145)

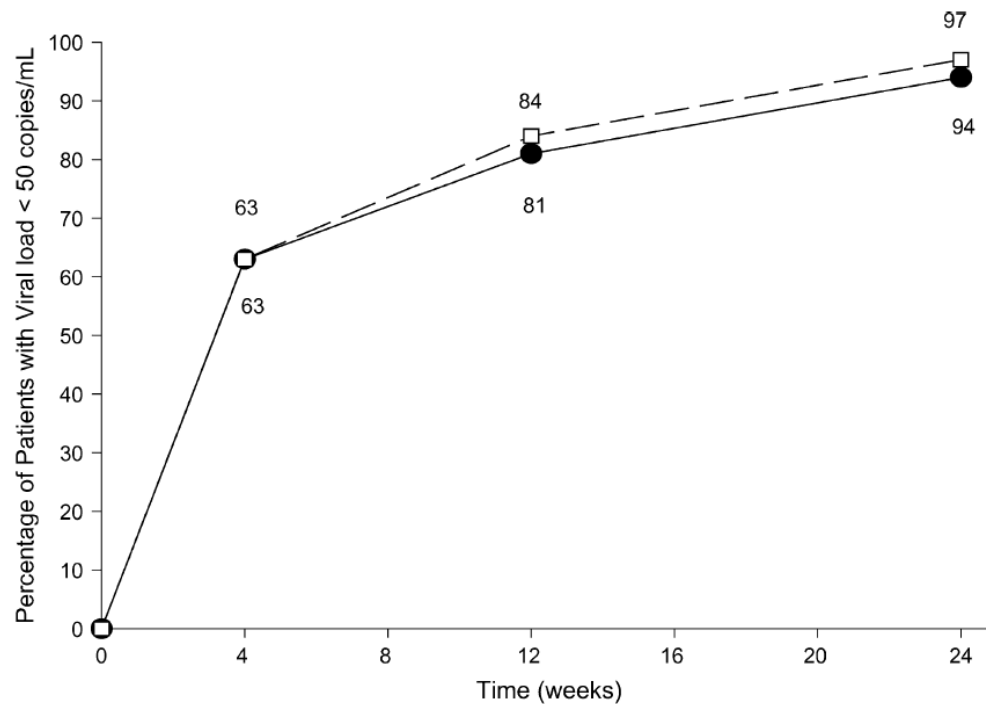
SOC (n=148)



Rana AI, et al. CROI 2024; Denver, CO. Presentation 212.

VF with selection of resistance: 2/6 vs 2/28

Raltegravir, Etravirine, and Ritonavir-Boosted Darunavir: A Safe and Successful Rescue Regimen for Multidrug-Resistant HIV-1 Infection



Imaz A, et al. JAIDS 2009;52(3):382-6

Switching to bicitgravir/emtricitabine/tenofovir alafenamide (BIC/FTC/TAF) plus darunavir/cobicistat in heavily antiretroviral-experienced, virologically suppressed HIV-infected adults receiving complex regimens

Daniel Podzamczar^{1*}, Arkaitz Imaz², Ana Lopez-Lirola³, Hernando Knobel⁴, Mar Masía⁵, Chiara Fanciulli⁶, Cristina Hernández⁷, María Lagarde⁸, Angela Gutierrez⁹, Adrià Curran¹⁰, Luis Morano¹¹, Marta Montero-Alonso¹², Jesús Troya¹³, Raúl Rigo², María Casadellà¹⁴, Antonio Navarro-Alcaraz¹⁴, Fernando Ardila², Mariona Parera¹⁴, Enrique Bernal¹⁵, Patricia Echeverría¹⁶, Vicente Estrada¹⁷, Carmen Hidalgo-Tenorio¹⁸, Juan Macías¹⁹, Paula Prieto²⁰, Joaquín Portilla²¹, Eulalia Valencia²², María Jesús Vivancos²³ and Antonio Rivero^{24,25}

A Randomized Trial of Dolutegravir Plus Darunavir/ Cobicistat as a Switch Strategy in HIV-1-Infected Patients With Resistance to at Least 2 Antiretroviral Classes

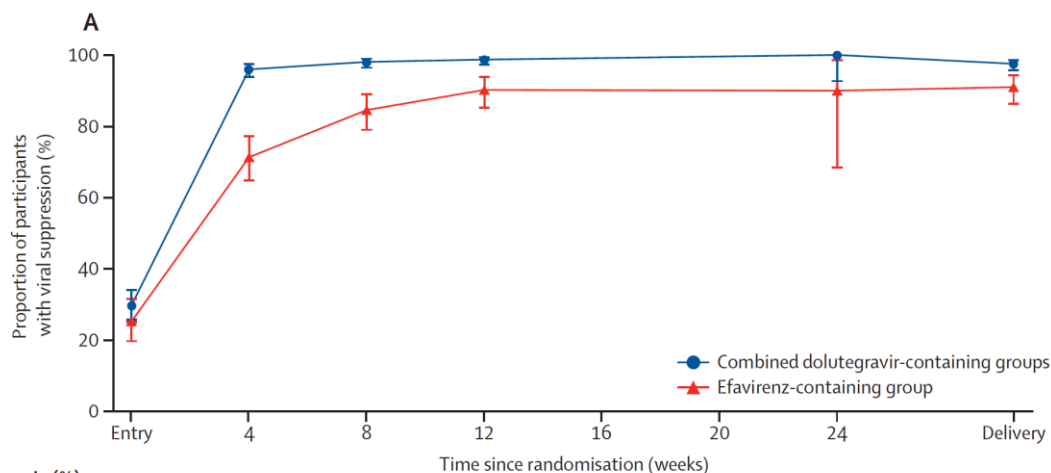
José R. Santos^{1,6}, Pere Domingo^{2,6}, Joaquín Portilla³, Félix Gutiérrez^{4,5,6}, Arkaitz Imaz^{7,6}, Helem Vilchez⁸, Adrià Curran⁹, Nieves Valcarce-Pardeiro¹⁰, Antoni Payeras¹¹, Enrique Bernal^{12,13,6}, Marta Montero-Alonso¹⁴, Miguel Yzusuqui¹⁵, Bonaventura Clotet^{1,16}, Sebastià Videla^{17,18}, José Moltó^{1,6} and Roger Paredes^{1,16,19}; on behalf of the 2D Study Group

J Antimicrob Chemother 2023; 78: 2696–2701
Open Forum Infect Dis. 2023 Oct 31;10(11):ofad542

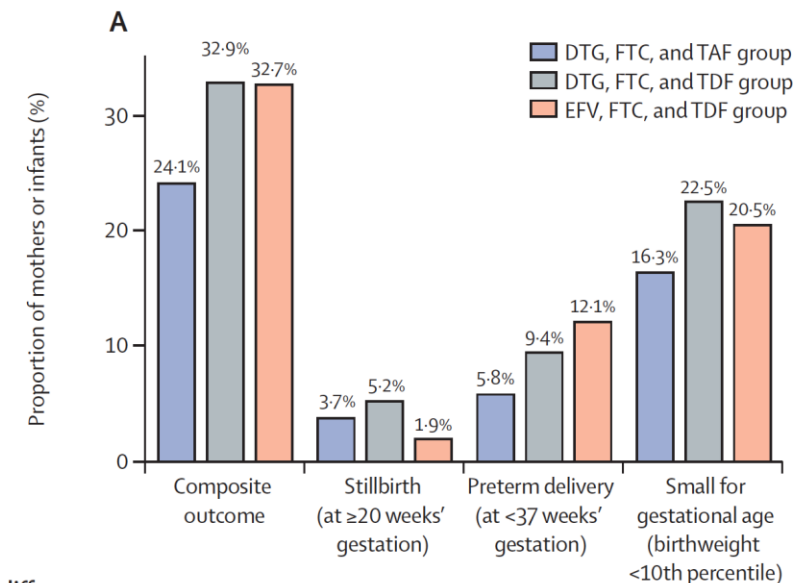
TAR durant l'embaràs

Multicentre, open-label, randomised controlled, phase 3 trial done at 22 clinical research sites in 9 countries (Botswana, Brazil, India, South Africa, Tanzania, Thailand, Uganda, the USA, and Zimbabwe).

Pregnant women (aged ≥18 years) with confirmed HIV-1 infection and at 14–28 weeks' gestation were eligible.



	Entry	4	8	12	24	Delivery
Proportion of participants (%)						
Combined dolutegravir-containing groups	129/432 (30%)	404/421 (96%)	404/412 (98%)	382/387 (99%)	47/47 (100%)	395/405 (98%)
Efavirenz-containing group	53/209 (25%)	147/206 (71%)	170/201 (85%)	166/184 (90%)	18/20 (90%)	182/200 (91%)



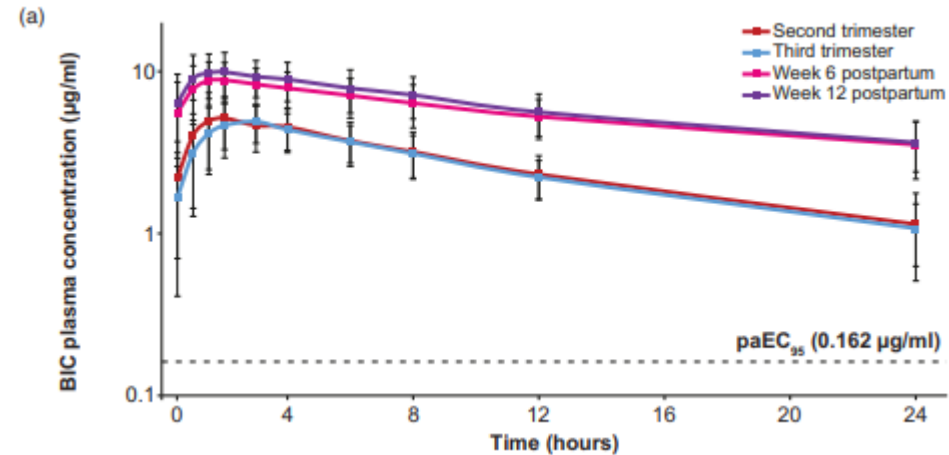
Group differences (95% CI)	Composite outcome	Stillbirth (at ≥20 weeks' gestation)	Preterm delivery (at <37 weeks' gestation)	Small for gestational age (birthweight <10th percentile)
DTG, FTC, and TAF group vs DTG, FTC, and TDF group	-8.8% (-17.3% to -0.3%)	-1.5% (-5.4% to 2.4%)	-3.6% (-8.8% to 1.5%)	-6.2% (-13.9% to 1.5%)
DTG, FTC, and TDF group vs EFV, FTC, and TDF group	0.2% (-8.8% to 9.1%)	3.3% (-0.2% to 6.8%)	-2.7% (-8.7% to 3.3%)	2.0% (-6.0% to 10.0%)
DTG, FTC, and TAF group vs EFV, FTC, and TDF group	-8.6% (-17.1% to -0.1%)	1.8% (-1.3% to 4.9%)	-6.3% (-11.8% to -0.9%)	-4.2% (-11.7% to 3.4%)

Lockman S, Brummel SS, et al. Lancet 2021; 397: 1276–92

TAR durant l'embaràs

A study of the pharmacokinetics, safety, and efficacy of bicitegravir/emtricitabine/tenofovir alafenamide in virologically suppressed pregnant women with HIV

Zhang H, et al. AIDS. 2024 Jan 1;38(1):F1-F9.11



Clinical Infectious Diseases

BRIEF REPORT



Bicitegravir Use During Pregnancy: A Multicenter Retrospective Analysis Evaluating Human Immunodeficiency Virus Viral Suppression and Perinatal Outcomes

Holt LM, et al. Clin Infect Dis. 2024 Apr 26;ciae218. Epub ahead of print.

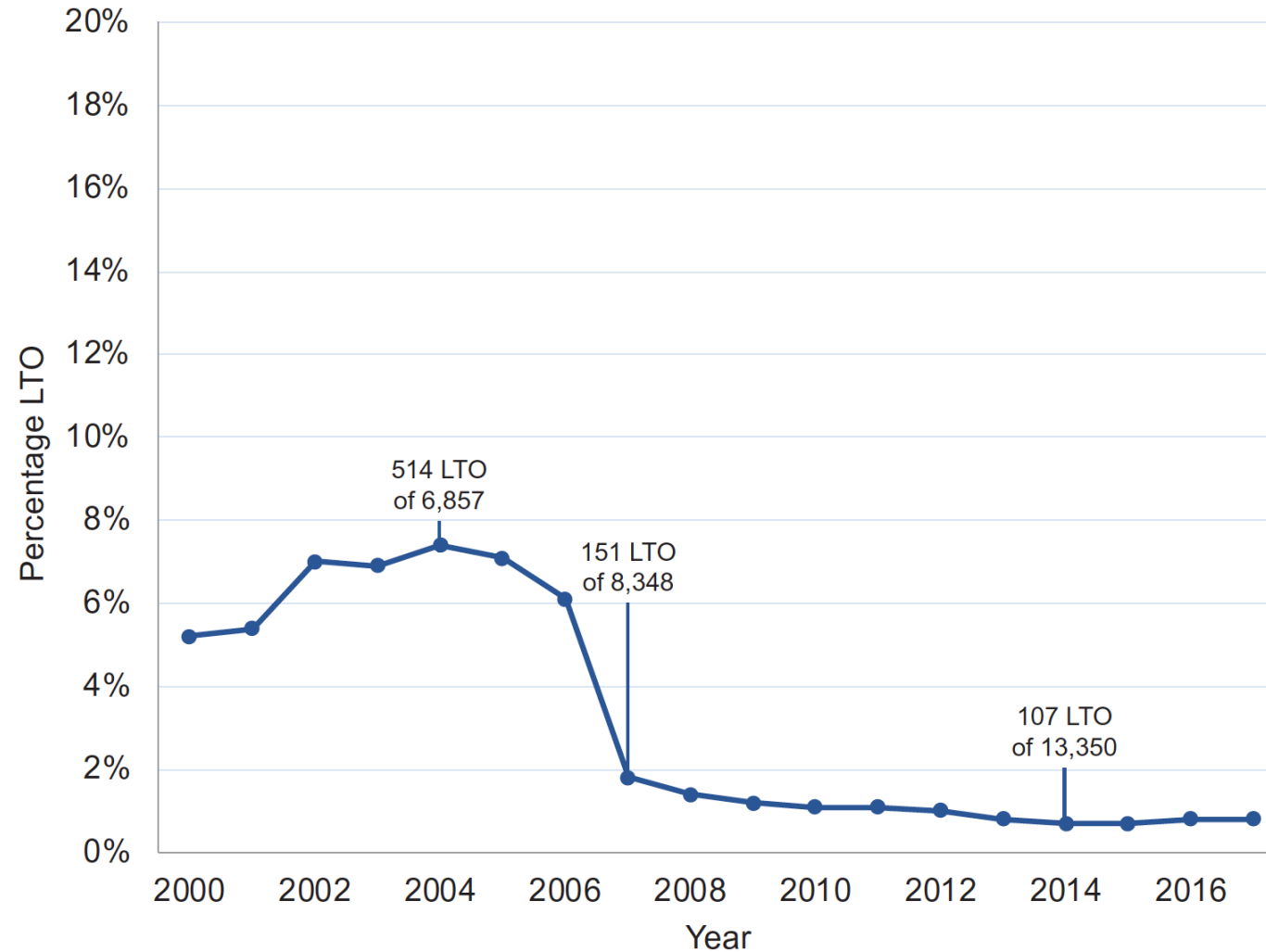


Birth outcomes following bicitegravir exposure during pregnancy

Olivero R, et al. AIDS. 2024 Oct 15. Epub ahead of print

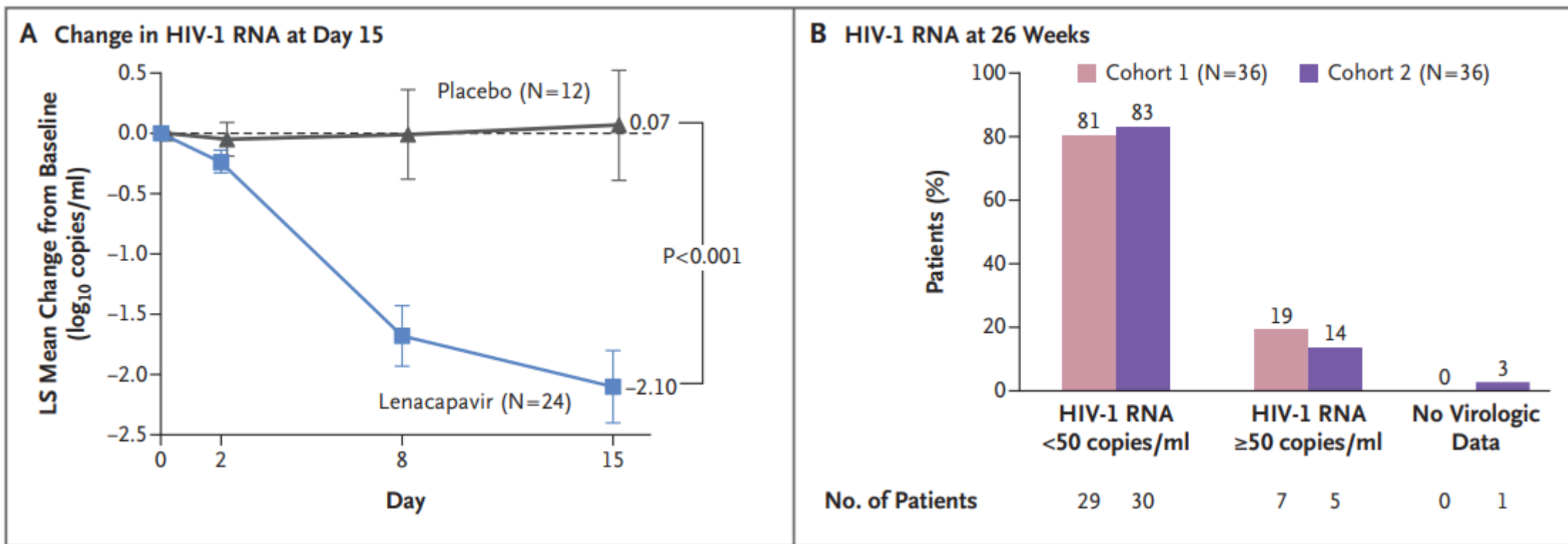


Nous fàrmacs per PVIH amb opcions limitades de TAR



Bajema KL, et al. AIDS 2020, 34:2051–2059

Capsid Inhibition with Lenacapavir in Multidrug-Resistant HIV-1 Infection



Segal-Maurer S, et al. N Engl J Med 2022;386:1793-803.

CONCLUSIONS

TAR actual: elevada eficàcia i simplicitat

... Però no és perfecte (toxicitat, interaccions, pautes orals diàries a molt llarg termini...)

Recerca en TAR cap a:

- Pautes amb menys fàrmacs
- Tractaments “*long-acting*”
- Noves vies d’administració

A l’horitzó: Erradicació, cura funcional, vacuna preventiva

Mentrestant:

PrEP: noves opcions long-acting (Cabotegravir, Lenacapavir)

Moltes Gràcies!

