

EACS Guidelines: last updates

What is new in the 12th EACS guidelines?

BREACH symposium November 2023 Julien De Greef



What to start for naive adults: no change

Recommended regimens	
2 NRTIs + INSTI	
ABC/3TC + DTG ABC/3TC/DTG	HLA-B*57:01 negative HBsAg negative
TAF/FTC/BIC	
TAF/FTC or TDF/XTC + DTG	
TAF/FTC or TDF/XTC + RAL qd or bid	
1 NRTI + INSTI	
XTC + DTG or 3TC/DTG	HBsAg negative HIV-VL < 500,000 copies/mL Not recommended after PrEP failure
2 NRTIS + NNRTI	
TAF/FTC or TDF/XTC + DOR or TDF/3TC/DOR	

What to start for naive adults: no change

Recommended regimens	
2 NRTIs + INSTI	
ABC/3TC + DTG ABC/3TC/DTG	HLA-8*57:01 negative HBsAg negative
TAF/FTC/BIC	
TAF/FTC or TDF/XTC + DTG	3 DR with INSTIs (DTG, BIC or RAL) OR doravirine + 2 NRTIs (TDF, TAF or ABC and XTC)
TAF/FTC or TDF/XTC + RAL qd or bid	2 DR with DTG + XTC
1 NRTI + INSTI	
XTC + DTG or 3TC/DTG	HBsAg negative HIV-VL < 500,000 copies/mL Not recommended after PrEP failure
2 NRTIs + NNRTI	
TAF/FTC or TDF/XTC + DOR or TDF/3TC/DOR	

What to start for naive adults

Recommended regimens		
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ABC/3TC + DTG ABC/3TC/DTG	HLA-B*57:01 negative HBsAg negative	
TAF/FTC/BIC		
TAF/FTC or TDF/XTC + DTG	3 DR with 2 nd generation INSTIs OR doravir + 2 NRTIs (XTC and ABC, TDF or TAF)	ine
TAF/FTC or TDF/XTC + RAL qd or bid	2 DR with DTG + XTC	
1 NRTI + INSTI		
XTC + DTG or 3TC/DTG	HBsAg negative HIV-VL < 500,000 copies/mL Not recommended after PrEP failure	
2 NRTIs + NNRTI		
TAF/FTC or TDF/XTC TDF/3TC/DOR	If ART needs to be initiated before genotypic test available, it is recommended to select a first-line high barrier to resistance, preferably a second ge alternatively a PI/b	regimen with a

When to start for naïve patients

ART is recommended in all adult persons with HIV, irrespective of CD4 counts^(I)

- ART is recommended irrespective of the CD4 count. In certain situations (i.e lower CD4 count or pregnancy), there is a greater urgency to start ART immediately
 - In persons with OIs, ART initiation may have to be deferred, see page 134, for ART initiation in the presence of specific OIs. For ART initiation in persons with TB, see page 20
 - A possible exception to immediate start of ART might be HIV controllers, persons with high CD4 counts and HIV-VL < 200 copies/ mL, although even in such persons ART initiation has been shown to increase CD4 count, decrease inflammation, lower the risk of clinical events and prevent HIV transmission

Switches in virologiccaly suppressed

Introduction of **long acting IM CAB/RPV** among switch options

The use of oral lead-in (1 month) is optional

 Injections are administered every 2 months. In case of bridging, see the section on Drug-Drug Interactions after Oral and Intramuscular Administration of CAB and RPV

Initiation phase (start on day of last oral pills)	Continuation phase
Day 0: CAB 600 mg/ RPV 900 mg Month 1: CAB 600 mg/ RPV 900 mg	From month 2 onwards: CAB 600 mg/ RPV 900 mg every 2 months

The following baseline factors, when combined, are associated with risk of virologic failure and resistance:

- Archived RPV-associated mutations
- HIV subtype A6/A1
- BMI ≥ 30 kg/m²

Switches in virologiccaly suppressed persons

Risk factors for virological failure in LA IM CAB/RPV

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Switches in virologiccaly suppressed persons

Risk factors for virological failure in LA IM CAB/RPV

last oral nills

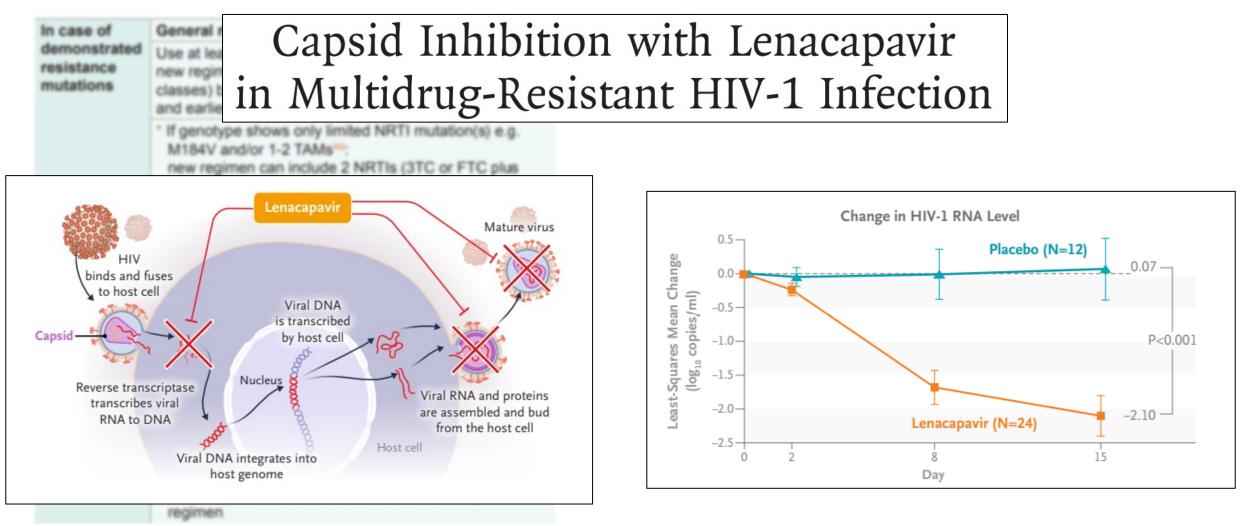
The use	Exploring predictors of HIV-1 virologic failure to
 Injections section or 	long-acting cabotegravir and rilpivirine:
tration of	a multivariable analysis

N	Parameter	Full model OR (95% CI), P ^a	Backwards elimination model OR (95% Cl), Pa
1039	RPV RAM(s) at baseline	30.23 (6.25->99), <0.001	40.36 (8.81->99), <0.001
lo	Log ₂ of <i>post hoc</i> Week 8 RPV trough concentration	3.85 (1.15-14.29) ^b , 0.029	5.00 (1.79–16.67) ^b , 0.002
	Baseline HIV-1 subtype A6/A1	2.37 (0.34-22.14), 0.394	5.92 (1.62-22.89), 0.008
	BMI (kg/m ²) at baseline	1.08 (0.96-1.22), 0.192	1.13 (1.02-1.24), 0.020

Virological failure

In case of	General recommendations:					
demonstrated resistance mutations	Use at least 2 and preferably 3 fully active drugs in the new regimen (including active drugs from previously used classes) based on resistance mutations present in current and earlier genotypic analyses					
	* If genotype shows only limited NRTI mutation(s) e.g. M184V and/or 1-2 TAMs ⁽ⁱⁱⁱ⁾ : new regimen can include 2 NRTIs (3TC or FTC plus TDF or TAF) and either 1 active Pl/b (i.e. DRV/b) or BIC or DTG (RAL or NNRTI not recommended)					
	 * If genotype shows multiclass resistance (i.e. ≥ 2 classes): new regimen will usually use - at least 1 fully active PI/b (i.e. DRV/b) or 1 fully active 2nd generation INSTI (BIC, DTG) - plus 1 or 2 drugs remaining fully active despite resistance to other drugs from the class (i.e. 1 or 2 NRTIs and/or DOR) - and/or from a class not used previously i.e. INSTI, NNRTI, PI/b, assessed by genotypic testing 					
	* When a 2-3 drugs active regimen cannot be constructed with NRTI, NNRTI, PI/b and INSTI, a drug with a new mechanism of action such as fostemsavir, lenacapavir or ibalizumab (where it is available on compational use) can be selected to obtain such a 2-3 drugs active regimen					

Virological failure



Segal-Maurer et al. NEJM 2022

Guidance on DDIs with lenacapavir

+ LENACAPAVIR : primarily cleared as unchanged drug substrate of UGT1A1, CYP3A4, P-gp moderate inhibitor of CYP3A4, weak inhibitor of P-gp and BCRP

- ➔ Lenacapavir can increase the exposure of sensitive CYP3A4 substrates
- → Lenacapavir modestly impacts P-gp and BCRP substrates
- → Strong dual inhibitors of UGT1A1 & CYP3A4: not recommended (e.g., atazanavir)
- → Strong inhibitors of CYP3A4 and/or P-gp: no clinically relevant increase in lenacapavir exposure
- → Strong and moderate inducers: not recommended (e.g., rifampicine; efavirenz)

No	n-ARV drugs	ATV/c	ATV/r	DRV/c	DRV/r	LPV/r	DOR	EFV	ETV	NVP	RPV	FTR	MVC	LEN	BIC	CAB/ RPV	DTG	EVG/c	RAL	TAF	TDF
	atorvastatin	↑822%	t	↑290%	t	<u></u> †490%	↓2%	↓43%	↓37%	Ļ	14% 100%	t	↔	Ť	↔	↔	↔	t	↔	↔	↔
	fluvastatin	1	Ť	Ť	Ť	\leftrightarrow	\leftrightarrow	Ť	Ť	\leftrightarrow	\leftrightarrow	Ť	↔	\leftrightarrow	↔	\leftrightarrow	\leftrightarrow	Ť	\leftrightarrow	\leftrightarrow	\leftrightarrow
s6n.	pravastatin	1	Ť	Ť	↑81%	133%	\leftrightarrow	↓ 44%	Ļ	\leftrightarrow	\leftrightarrow	↔	↔	\leftrightarrow	↔	\leftrightarrow	↔	Ť	↓4%	↔	↔
Cardiovascular drugs	rosuvastatin	↑242%	<mark>↑213%</mark>	193%	↑48%	<mark>↑108%</mark>	\leftrightarrow	\leftrightarrow	↔	\leftrightarrow	\leftrightarrow	↑69%	↔	131%	↔	\leftrightarrow	↔	138%	\leftrightarrow	\leftrightarrow	↔
cula	simvastatin	1	Ť	1	Ť	Ť	\leftrightarrow	↓68%	Ļ	Ļ	\leftrightarrow	Ť	↔	Ť	↔	\leftrightarrow	↔	1	\leftrightarrow	\leftrightarrow	\leftrightarrow
ovas	amlodipine	†a	†a	Ť	î	†a	\leftrightarrow	1 L	Ļ	Ļ	\leftrightarrow	\leftrightarrow	↔	Ť	↔	\leftrightarrow	↔	Ť	\leftrightarrow	\leftrightarrow	\leftrightarrow
ardio	diltiazem	†a	†a	Ť	Ť	†a	Е	↓69%	↓E	Ļ	E	E	E	Ť	Е	Е	\leftrightarrow	1	\leftrightarrow	\leftrightarrow	↔
Ü	metoprolol	†a	†a	Ť	1	†a	\leftrightarrow	\leftrightarrow	↔	↔	↔	↔	↔	\leftrightarrow	↔	\leftrightarrow	↔	1	\leftrightarrow	↔	↔
	verapamil	†a	†a	1	1	†a	Е	Ļ	ĻΕ	Ļ	Е	E	Е	Ť	Е	Е	↔	Ť	\leftrightarrow	Е	Е
	warfarin	1	↑ or ↓	Ť	Ļ	Ļ	\leftrightarrow	↑ or ↓	Ť	↑ or ↓	\leftrightarrow	\leftrightarrow	\leftrightarrow	† ^	↔	\leftrightarrow	\leftrightarrow	Ļ	\leftrightarrow	\leftrightarrow	\leftrightarrow
	bupropion	\leftrightarrow	Ļ	\leftrightarrow	Ļ	↓57%	\leftrightarrow	↓55%	↔	Ļ	↔	↔	↔	\leftrightarrow	↔	\leftrightarrow	↔	↑?	\leftrightarrow	\leftrightarrow	↔
	carbamaze- pine	↑D	ţD	ţD	t	†D c	D	↓27% D36%	D	ţD	D	D	D	D #	D	D	D49%	↑ D	Dc	D	↔
	citalopram	†a,b	†a,b	Ť	Ť	†a,b	\leftrightarrow	Ļ	Ļ	Ļ	↔b	↔b	↔	\leftrightarrow	↔	↔b	↔	Ť	\leftrightarrow	↔	↔
	diazepam	1	Ť	Ť	Ť	1	\leftrightarrow	Ļ	Ļ	Ļ	↔	↔	↔	Ť	↔	\leftrightarrow	↔	Ť	\leftrightarrow	\leftrightarrow	↔
s	lamotrigine	\leftrightarrow	↓32%	↔	Ļ	↓50%	\leftrightarrow	1	↔	\leftrightarrow	\leftrightarrow	↔	↔	\leftrightarrow	↔	\leftrightarrow	↔	\leftrightarrow	↓1%	\leftrightarrow	↔
CNS drugs	midazolam (oral)	t	t	t	t	t	↓18%	Ļ	Ļ	Ļ	↔	↔	↑18 %	1308%^	15%	↔	↔	t	↓8%	↔	↔
S	mirtazapine	↑b	ţ₽	Î	î	ţ₽	\leftrightarrow	1 L	Ļ	Ļ	↔b	↔b	↔	↔	↔	↔b	↔	Ť	\leftrightarrow	\leftrightarrow	\leftrightarrow
	paroxetine	†↓?	†↓ ?	†↓ ?	↓39%	† ↓ ?	\leftrightarrow	\leftrightarrow	↑3%	\leftrightarrow	\leftrightarrow	↔	↔	\leftrightarrow	↔	\leftrightarrow	↔	†↓ ?	\leftrightarrow	\leftrightarrow	\leftrightarrow
	phenytoin	D	↓D	D	↓D	↓D c	D	↓D	D	D	D	D	D	D #	D	D	D d	D	Dc	D	↔
	pimozide	1	Ť	Ť	Ť	Ť	\leftrightarrow	Ť	Ļ	Ļ	↔b	↔b	↔	† ^	↔	⇔b	↔	Ť	\leftrightarrow	↔	↔
	sertraline	1	Ļ	Ť	↓49%	ţb	\leftrightarrow	↓ 39%	Ļ	Ļ	\leftrightarrow	↔	↔	\leftrightarrow	↔	\leftrightarrow	↔	↓7%	\leftrightarrow	\leftrightarrow	\leftrightarrow
	triazolam	1	1 (Ť	Î	t	\leftrightarrow	1	Ļ	Ļ	↔	↔	↔	<u>† ^</u>	↔	\leftrightarrow	↔	Ť	\leftrightarrow	\leftrightarrow	\leftrightarrow

Treatment of pregnant women and women considering pregnancy

	 Maintain ART: The main goal of ART during pregnancy is maintaining treatment efficacy, both for the women's benefit and HIV transmission risk. 	
Manufile regiment	 ART may be switched temporarily for the duration of pregnancy to the 	
	preferred combinations recommended for ART naïve pregnant women, see	3
	table 1	
	 The decision on switching ART should be individualized taking into account the person's history of treatment, adherence and tolerability, and 	
	weighed against potential risk coming from ART exposure or suboptimal	
	pharmacokinetics in pregnancy	
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Treatment of ART-naïve pregnant women

Regimen	Main requirements	Additional guidance (see footnotes)
Recommended regimens		
2 NRTIS + INSTI (PREFERRED)		
TDF/XTC or TAF/FTC + DTG		I (Tenofovir salts)
TDF/XTC or TAF/FTC + RAL 400 mg bid		I (Tenofovir salts) II (RAL in pregnancy, bid dosing)
2 NRTIs + PI/r		
TDF/XTC or TAF/FTC + DRV/r 600 mg/100 mg bid	With food	I (Tenofovir salts) III (DRV dosing) IV (COBI boosting)
Alternative regimens		
2 NRTIS + INSTI		
ABC/3TC + DTG or ABC/3TC/DTG	HLA-B*57:01 negative HBsAg negative	V (ABC: HLA-B*57:01, may delay starting ART)
ABC/3TC + RAL 400 mg bid	HLA-B*57:01 negative HBsAg negative	 II (RAL in pregnancy, bid dosing) V (ABC: HLA-B*57:01, may delay starting ART)
2 NRTIS + NNRTI		
ABC/3TC + EFV	HLA-B*57:01 negative HBsAg negative HIV-VL < 100,000 copies/mL At bedtime or 2 hours before dinner	V (ABC: HLA-B*57:01, may delay starting ART) VI (EFV HIV-2 & group O)
TDF/XTC or TAF/FTC + EFV or TDF/FTC/EFV	At bedtime or 2 hours before dinner	I (Tenofovir salts) VI (EFV HIV-2 & group O)
TDF/XTC or TAF/FTC + RPV or TDF/FTC/RPV or TAF/FTC/RPV	CD4 count > 200 cells/µL HIV-VL < 100,000 copies/mL Not on gastric pH increasing agents With food	I (Tenofovir salts) VII (RPV exposure during 2 nd and 3 rd trimester, HIV-2) VIII (Interactions)
2 NRTIs + PI/r		
ABC/3TC + DRV/r 600 mg/100 mg bid	HLA-B*57:01 negative HBsAg negative With food	 III (DRV dosing) IV (COBI boosting) V (ABC: HLA-B*57:01, may delay starting ART)

Treatment of ART-naïve pregnant women

ABC moved to alternatives

Regimen	Main requirements	Additional guidance (see footnotes)	
Recommended regimens			
2 NRTIS + INSTI (PREFERRED)			
TDF/XTC or TAF/FTC + DTG		I (Tenofovir salts)	
TDF/XTC or TAF/FTC + RAL 400 mg bid		I (Tenofovir salts)II (RAL in pregnancy, bid dosing)	DTG to be discussed with the considering to become
2 NRTIs + PI/r			pregnant or if to be used in 6 weeks of pregnancy
TDF/XTC or TAF/FTC + DRV/r 600 mg/100 mg bid	With food	I (Tenofovir salts) III (DRV dosing) IV (COBI boosting)	TAF/FTC not recomment in 14 weeks of pregr
Alternative regimens	Ŵ.,		
2 NRTIS + INSTI			
ABC/3TC + DTG or ABC/3TC/DTG	HLA-B*57:01 negative HBsAg negative	V (ABC: HLA-B*57:01, may delay starting	g ART)
ABC/3TC + RAL 400 mg bid	HLA-B*57:01 negative HBsAg negative	 II (RAL in pregnancy, bid dosing) V (ABC: HLA-B*57:01, may delay starting 	JART)
2 NRTIs + NNRTI			
ABC/3TC + EFV	HLA-B*57:01 negative HBsAg negative HIV-VL < 100,000 copies/mL At bedtime or 2 hours before dinner	V (ABC: HLA-B*57:01, may delay starting VI (EFV HIV-2 & group O)	JART)
TDF/XTC or TAF/FTC + EFV or TDF/FTC/EFV	At bedtime or 2 hours before dinner	I (Tenofovir salts) VI (EFV HIV-2 & group O)	
TDF/XTC or TAF/FTC + RPV or TDF/FTC/RPV or TAF/FTC/RPV	CD4 count > 200 cells/µL HIV-VL < 100,000 copies/mL Not on gastric pH increasing agents With food	I (Tenofovir salts) VII (RPV exposure during 2 nd and 3 rd trimes VIII (Interactions)	ster, HIV-2)
2 NRTIs + PI/r			
ABC/3TC + DRV/r 600 mg/100 mg bid	HLA-B*57:01 negative HBsAg negative With food	 III (DRV dosing) IV (COBI boosting) V (ABC: HLA-B*57:01, may delay starting) 	ART)

Treatment of ART-naïve pregnant women

Update on Neural Tube Defects with Antiretroviral Exposure in the Tsepamo Study, Botswana

ABC mo CONCLUSIONS

to alter The prevalence of NTDs among infants born to women on dolutegravir at conception has declined slightly to 0.11% and does not substantially differ from other exposure groups.

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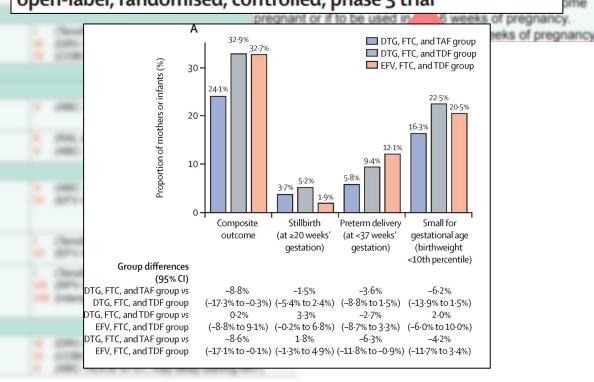
These data support existing WHO guidelines • that recommend DTG as first-line for use in adults, regardless of reproductive all potential

and the second second

ALC: NOT THE REAL PROPERTY OF

Efficacy and safety of dolutegravir with emtricitabine and tenofovir alafenamide fumarate or tenofovir disoproxil fumarate, and efavirenz, emtricitabine, and tenofovir disoproxil fumarate HIV antiretroviral therapy regimens started in pregnancy (IMPAACT 2010/VESTED): a multicentre, open-label, randomised, controlled, phase 3 trial

me



Zash et al. 24th Intl AIDS Conference 2022 – Lockman et al. Lancet 2021

Breastfeeding

8. Breastfeeding	 Breastfeeding is not recommended routinely
	 In situations where there is persistently undetectable maternal HIV viral
	load and very low risk of transmission, breastfeeding may be facilitated
	by joint decision making and with appropriate close monitoring of
	mother and infant. Please see the section on General Principles of
	Postnatal Prophylaxis and Infant Feeding for details, on page 157

Shift from « *advise against breastfeeding* » to « *breastfeeding not recommended routinely* »

Assess CVD risk in next 10 years

Use SCORE2 (40-69y) or SCORE2-OP (>70y) as the principal tool for CV risk estimation in primary prevention in "apparently heathy people" (subjects without atherosclerotic cardiovascular disease, diabetes mellitus, chronic kidney disease, or familial hypercholesterolemia). 2021 ESC Guidelines on cardiovascular disease prevention in clinical practice: Developed by the Task Force for cardiovascular disease prevention in clinical practice with representatives of the European Society of Cardiology and 12 medical societies With the special contribution of the European Association of Preventive Cardiology (EAPC). European Heart Journal, 42 (34): 3227-3337. Frank L J Visseren, et al. This new score includes the non-HDLc (total cholesterol- HDLc) as the lipid biomarker for CVD risk estimation and incorporates different risk score estimations depending on which country in Europe the person comes from (four European risk regions). See link below to access the CV risk estimation calculator. North African and eastern European subjects are considered at very high CVD risk. For other ethnicities: • Southern Asian: multiply the risk by 1.3 for people of Indian and Bangladeshi descent, and 1.7 for people of Pakistani descent. • Other Asian: multiply the risk by 1.1. • Black Caribbean: multiply the risk by 0.85. • Black African and Chinese: multiply the risk by 0.7. This assessment and the associated considerations outlined in this figure should be repeated annually in all persons receiving care, see page 8, to ensure that the various interventions are initiated in a timely manner. SCORE2 has not been validated in people with HIV and likely underestimates CVD risk estimation. HIV has been recognized as a risk enhancer for CVD.

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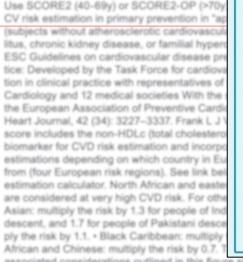
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SCORE2 risk prediction algorithms key features



Sex-specific risk prediction models



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Estimate 10-year risk of fatal and non-fatal CVD

CVD max in new



Calibrated to the most contemporary and representative CVD rates



Available for four distinct European risk regions



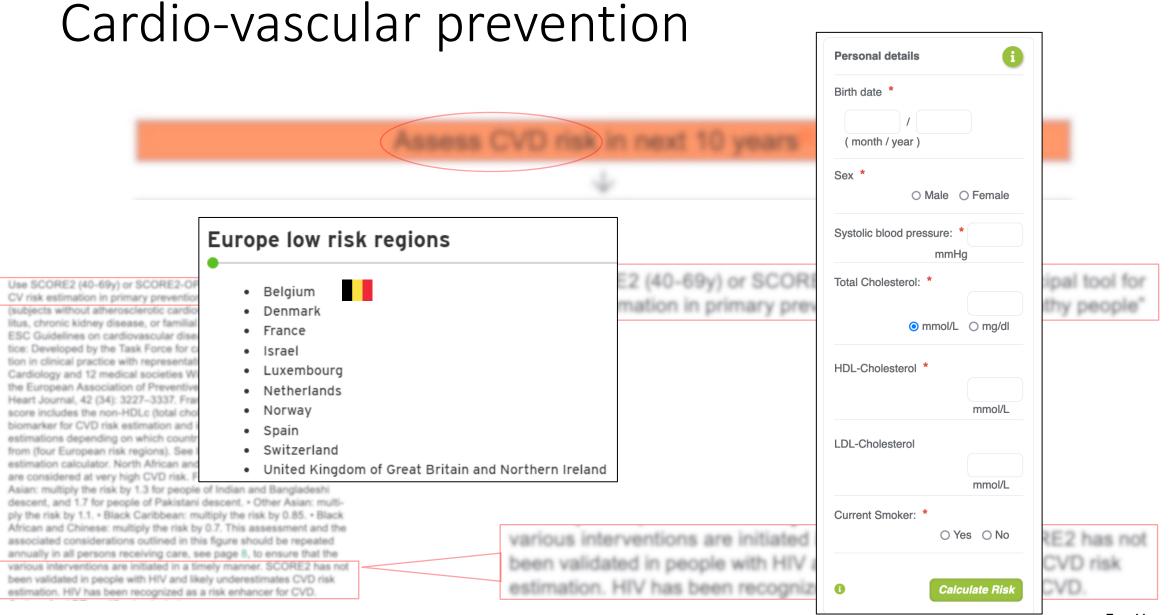
Can be rapidly updated to reflect future CVD incidence and risk

factor profiles



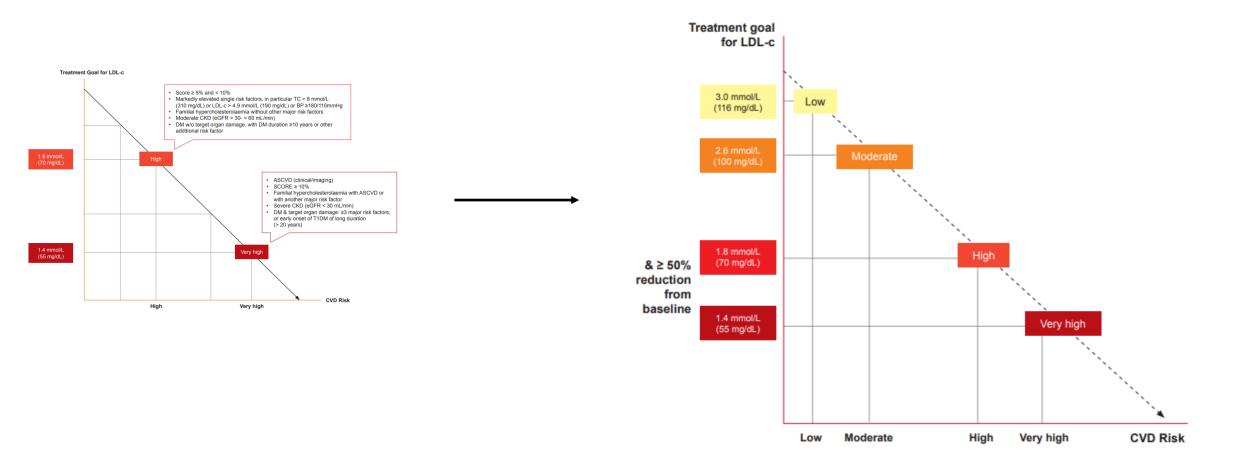
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he principal tool for ntly heathy people"



Eur Heart J 2021

Treatment Goals for LDL-c to Reduce Cardiovascular Risk Depending on CV Risk Estimation*



Pitavastatin to Prevent Cardiovascular Disease in HIV Infection Transforment Group for LDL -Score is \$55, and - 12% Major Adverse Cardiovascular Events HR, 0.65 (95% CI, 0.48-0.90); P=0.002 8-Person-Yr 7.32 136 events **Published after** 6 4.81 Incidence per 1000 89 events update of EACS 2 guidelines... Pitavastatin Placebo

eatment Goals for LDL-c to Reduce Cardiovascular Risk Depending on CV Risk itimation*

Grinspoon et al. NEJM 2023

Viral hepatitis coinfection

Screening for complications

7. HCC screening is indicated in

a) all cirrhotic patients (irrespective of viral clearance for HCV or viral suppression for HBV)

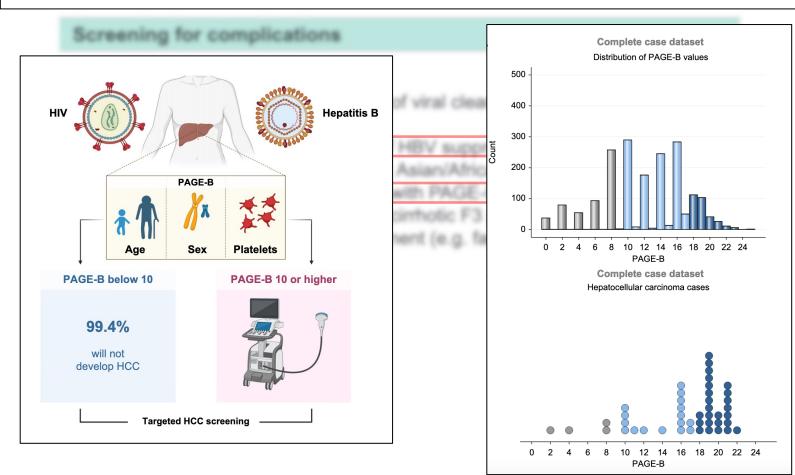
b) non-cirrhotic HBV (irrespective of HBV suppression) in persons with one of the following: family history of HCC; Asian/African ethnicity, HDV-co-infection, age >45 years, Caucasian patients with PAGE-B score ≥10

c) consider HCC screening for non-cirrhotic F3 patients, regardless of etiolo-

gy, based on individual risk assessment (e.g. family history of HCC)

Viral hepatitis coinfection

External validation of the PAGE-B score for HCC risk prediction in people living with HIV/HBV coinfection



Surial et al. J Hepatol 2023

Мрох

Part VI

Opportunistic Infections and COVID-19

When to start ART in persons with Opportunistic Infections (OIs)

Immune Reconstitution Inflammatory Syndrome (IRIS)

Primary Prophylaxis of OIs According to Stage of Immunodeficiency

Primary Prophylaxis, Treatment and Secondary Prophylaxis/ Maintenance Treatment of Individual OIs

Diagnosis and Treatment of TB in Persons with HIV

TB Drug Doses

Management of COVID-19 in Persons with HIV

Management of Mpox in Persons with HIV

New section

Management of Mpox in Persons with HIV

Epidemiology and preven

- An outbreak of Mpox (formerly known as Monkeypox) outside West/Central Africa is ongoing since May 2022. In the context of the current outbreak, sexual intercourses have been the major route of transmission. It has disproportionally affected MSM, particularly people with HIV and PrEP users
- Counselling should be offered to these persons to reduce the risk of Mpox transmission
 Close contacts of an individual with Moor deauld be identified and maximum deaulting to be
- Close contacts of an individual with Mpox should be identified and monitored according to local guidelines
- See Vaccination for recommendations regarding Mpox preventive and post-exposure vaccination
 Individuals recently diagnosed with Mpox should be tested for concomitant STIs. See also STI

nical features and diagnosit

- Fever, lymphadenopathy and enanthema in prodromal phase, followed by cutaneous lesions (most frequently vesiculopustular, but multiple morphologies may occur). Atypical presentations, such as single genital ulcer, proctitis and anorectal involvement, or conjunctival involvement may occur
- Aggressive disseminated infection with large necrotizing skitumucosal lesions and multisystemic involvement (pulmonary, ocular or central nervous system manifestations; secondary cutaneous or bedretaemic superinfection) may occur in individuals with immunosuppression, including persons with advanceduncentrolled HIV infection (CD4 T cells-200 cells/mm², having most cases <100 cells/mm²)
- Definitive diagnosis requires Mpox DNA detection by PCR on cutaneous lesion/crust swab. PCR on oropharyngeal/conjunctivalitectal swab may be useful in atypical presentations. Bee also VMHO guidelines and CDC guidelines

fanagement and treatme

- All individuals with Mpox should be offered appropriate symptomatic treatment (pain and fever management, care of skin lesions)
- Isolation measures for confirmed cases and effective contact-tracing should be implemented to reduce the risk of Mpox spreading, according to local guidelines
- Non-service cases without immunosuppression or other high-risk dividal manifestations and able to set-isolate at home may be managed conservatively. Close monitoring of clinical conditions and early recognition of complications (e.g.: bacterial superinfection; difficult breathing; deterioration of general conditions) should be ensured
- Severe cases or cases at high-risk of severe disease, defined as persons with any of the following:
- CD4 T cells <200 cells/mm² (see also CDC guidelines)
- · fulminant disseminated infection (confluent, necrotic skin lesions; pulmonary or CNS complications; sepsis)
- mucosal or genital lesions with the potential for causing strictures
- ocular involvement
- lymphadenopathy causing difficulties in breathing/oral intake
- skin and deep tissues bacterial superinfection
- severe, uncontrolled pain
- pre-existing skin conditions affecting skin integrity
- pediatric, pregnant or breast-feeding populations
- other conditions requiring hospitalization
 Should be evaluated for hospitalization and initiation of antiviral treatment (see also WHO guidelines and CDC guidelines)

herapeutic considerations for severe cases

Severe cases and persons at risk of severe disease should be admitted for close monitoring. In immunocompromised palants, it is critical to optimize immune function to maximize chances of necovery. To date, effectiveness of antiviral therapies in Mpox has not been systematically evaluated, but preliminary data suggest that their use may be beneficial in severe cases. See also MMVR-interim clinical treatment considerations for Mpox

First-line therapy	Dose	Comments
Tecovirimat	Oral dosing: • 40-120 kg: 600 mg bid • >120 kg: 600 mg tid • To be administered with high-fat meal IV dosing: • 35-120 kg: 200 mg every 12 hours over 6 hours • >120 kg: 300 mg every 12 hours over 6 hours • Do not administer IV formulation in patients with CrCI< 30mL/min, and use caution in people with milder degrees of renal impairment Treatment duration: 10 to 14 days	Tecovirinal has been approved for the treatment orthopox viruses inflactions (including Mpox) based on animal studies. Studies to assess benefit of tecovirinal treatment in people with Mpox are orgoing. Data on special population (pregnant women; pediatric patients) are limited. Tecovirinal may reduce RPV levels. Consider additional drug-drug interactions when prescribing tecovirinat; See also Anti-Infective/ART interaction table

iditional therapeutic op

- Several agents have been proposed as adjunctive or alternative therapies for Mpox.
- Brinoidotovir and cidofovir are effective against other ponviruses, and anecdotical data suggest that they could be effective against Mpox. The use of
 these agents may be considered in patients not eligible to or failing first-line therapy with tectovirmat. In addition, either brinoidotovir or cidofovir may be
 considered in combination with tectovirmat as first-line therapy or severely immunocompromised patients.
- Vaccinia immune globulin intravenous (VIGIV) can be considered for severely immunocompromised patients unable to mount an effective immune response. Caution should be applied in administering VIGIV in patients with corneal involvement. See also MMWR-Interim clinical treatment consider
 - ons for Mpox
- Topical application of trifluridine could be considered in patients with ocular involvement

Considerations for ART st

Cases of clinical deterioration attributable to immune reconstitution inflammatory syndrome (IRIS) have been observed in persons with advanced HIV infection antiretroviral-naive or re-initiating ART. Monitor carefully for signs of IRIS after ART introduction

Pre-exposure Prophylaxis

- The most common drug available is a generic version with 300mg of tenofovir (formulated as disoproxil fumarate/maleate/phosphate) combined with 200mg of emtricitabine (TDF/FTC). In certain countries, TDF is labelled as 245 mg rather than 300 mg to reflect the amount of the prodrug (tenofovir disoproxil) rather than the fumarate salt (tenofovir disoproxil fumarate)
- The effectiveness of daily and on-demand regimens of TDF/FTC has been extensively evaluated in clinical studies in men, but on demand has only been evaluated in pharmacokinetic/pharmacodynamic (PK/ PD) studies for the female genital tract (FGT) and not at all for neovaginal/neopenile tissues
- TAF/FTC could be considered, if available, when creatinine clearance or bone mineral density preclude TDF/FTC. TAF/FTC has been evaluated as a daily regimen in comparison to TDF/FTC in men and transgender women. It was non-inferior, with a statistically significant benefit for renal and bone biomarkers
- Long-acting cabotegravir is available on application to compassionate release program, pending EMA approval, for individuals for whom TDF/FTC is contraindicated

Pre-exposure Prophylaxis

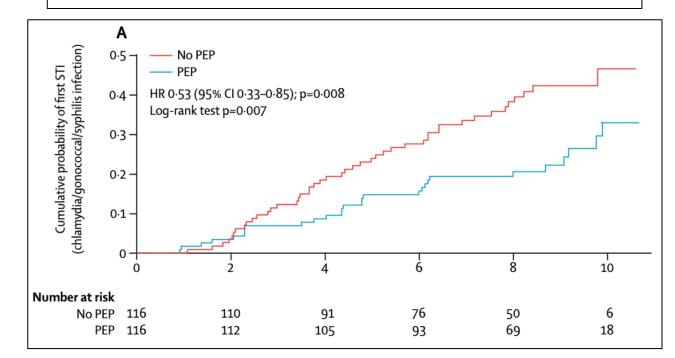
Doxycycline post exposure prophylaxis, 200 mg within 24 to 72h after sexual intercourse, proved to be effective in preventing bacterial STIs in MSM with the caveat of the unknown long terms effects on microbiota and STIs resistance. It can be proposed to persons with repeated STIs on a case by case basis

DoxyPEP

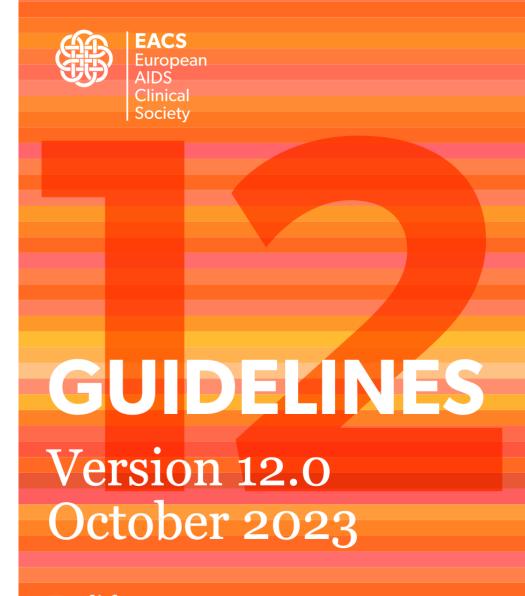
Pre-exposure Prophylaxis

Post-exposure prophylaxis with doxycycline to prevent sexually transmitted infections in men who have sex with men: an open-label randomised substudy of the ANRS IPERGAY trial

Jean-Michel Molina, Isabelle Charreau, Christian Chidiac, Gilles Pialoux, Eric Cua, Constance Delaugerre, Catherine Capitant, Daniela Rojas-Castro, Julien Fonsart, Béatrice Bercot, Cécile Bébéar, Laurent Cotte, Olivier Robineau, François Raffi, Pierre Charbonneau, Alexandre Aslan, Julie Chas, Laurence Niedbalski, Bruno Spire, Luis Sagaon-Teyssier, Diane Carette, Soizic Le Mestre, Veronique Doré, Laurence Meyer, for the ANRS IPERGAY Study Group*



Thank you for your attention !



English