PatientID: HDR11

Okitobba 06, 2023

### Color Code

HR: High-Level Resistance
LR: Low-Level Resistance
IR: Intermediate Resistance

S: Susceptible

DRUG.CLASS	DRUG	RESISTANCE.PROFILE	DRMS.above.20.percent.prevalence	
PI	ATV	LR		
	DRV	$\mathbf{S}$		
	FPV	$_{ m LR}$	V82A	
	IDV	IR		
	LPV	IR		
	NFV	IR		
	SQV	$\operatorname{LR}$		
	TPV	$\mathbf{S}$		
NRTI	ABC	$_{ m HR}$	M41L;K70E;Q151L;L210W;T215I	
	AZT	$_{ m HR}$		
	D4T	$_{ m HR}$		
	DDI	$_{ m HR}$		
	FTC	$_{ m LR}$		
	LMV	$\operatorname{LR}$		
	TDF	IR		
NNRTI	DOR	$_{ m HR}$		
	EFV	$_{ m HR}$		
	ETR	IR	G190E;K101H;K103N	
	NVP	HR		
	RPV	$_{ m HR}$		
INSTI	BIC	IR		
	CAB	IR	Dagger	
	DTG	IR	R263K	
	EVG	IR		
	RAL	$\operatorname{LR}$		

# Appendix

## Drug abbreviations in full

DRUG.CLASS	ABBREVIATION	DRUG.NAME
	ATV	Atazanavir
	DRV	Darunavir
	FPV	Fosamprenavir
PI	IDV	Indinavir
11	LPV	Lopinavir
	NFV	Nelfinavir
	SQV	Saquinavir
	TPV	Tipranavir
	ABC	Abacavir
	AZT	Azidothymidine
	DFT	Stavudine
NRTI	DDI	Didanosine
	FTC	Emtricitabine
	LMV	Lamivudine
	TDF	Tenofovir
	DOR	Doravirine
	EFV	Efavirenz
NNRTI	ETR	Etravirine
	NVP	Nevirapine
	RPV	Rilpivirine
	BIC	Bictegravir
	CAB	Cabotegravir
INSTI	DTG	Dolutegravir
	EVG	Elvitegravir
	RAL	Raltegravir

### Comments

DRUG.CLASS	COMMENTS
PI	
11	V82A is a non-polymorphic mutation selected primarily by IDV and LPV. It is associated
	with reduced susceptibility to LPV and to a lesser extent ATV. It increases DRV
	susceptibility.
	K70/E/Q/N/T/S/G cause low-leve resistance to ABC and TDF.
	L210W is a TAM that usually occurs in combination with M41L and T215Y. The
	combination of M41, L210W and T215Y causes high-level resistance to AZT and
	intermediate resistance to ABC and TDF.
	M41L is a TAM that usually occurs with T215Y. In combination, M41L plus T215Y confer
	intermediate / high-level resistance to AZT and d4T and contribute to reduced ddI, ABC
	and TDF susceptibility.
	Q151M causes intermediate/high-level resistance to AZT and ABC, and low-level
	resistance to TDF, 3TC and FTC. In combination with two or more accessory mutations
	at positions 62, 75, 77, and 116, it confers high-level resistance to AZT and ABC and
	intermediate resistance to TDF, 3TC and FTC. Q151L is an extremely rare transitional
	mutation that may precede the emergence of the Q151M.

#### NRTI

	T215Y/F are TAMs that causes intermediate/high-level resistance to AZT and potentially low-level resistance to ABC and TDF. T215S/C/D/E/I/V/N/A/L do not reduce NRTI susceptibility but arise from viruses that once contained T215Y/F. The presence of one of these revertant mutations suggests that the patient may have once been infected with a virus containing T215Y/F.
	G190E is an uncommon non-polymorphic mutation associated with reduced replication
	capacity that confers intermediate to high-level resistance to each of the NNRTIs. G190Q
	is a rare NNRTI-selected mutation that confers high-level NVP and EFV resistance. Its
	effects on RPV, ETR, and DOR susceptibility is not known.
	K101H is a non-polymorphic accessory mutation selected by NVP, EFV and ETR. When
	present with other NNRTI-resistance mutations, it contributes reduces susceptibility to
NNRTI	these NNRTIs.
	K103N is a non-polymorphic mutation that confers high-level reductions in NVP and EFV
	susceptibility. It is the most commonly transmitted DRM.
INSTI	
11/211	R263K is a nonpolymorphic mutation selected in vitro by EVG, DTG, BIC, and CAB. It
	occurs in a high proportion of persons who develop VF and emergent HIVDR while
	receiving DTG. Alone, it reduces DTG, BIC, and CAB susceptibility about 2-fold.