Drug resistance interpretation: PR HNDB 9.5.1 (2023-11-05)

PI Major Mutations:

None

PI Accessory Mutations: PR Other Mutations:

L10X · V111 · T12A · I13D · K14T · G16E · Q18T · L19A · E35D · M36I · R41K · R57K · L63C · H69K · L89M

# Protease Inhibitors

atazanavir/r (ATV/r) Susceptible Susceptible darunavir/r (DRV/r) fosamprenavir/r (FPV/r) Susceptible indinavir/r (IDV/r) Susceptible lopinavir/r (LPV/r) Susceptible nelfinavir (NFV) Susceptible saguinavir/r (SQV/r) Susceptible tipranavir/r (TPV/r) Susceptible

#### PR comments

## Other

V111/L are relatively non-polymorphic accessory mutation selected in persons receiving DRV. V11L is a nonpolymorphic PI-selected mutation associated with reduced in vitro DRV susceptibility when it occurs in combination with other PI-resistance mutations.

Mutation scoring: PR

No drug resistance mutations were found for PI.

Drug resistance interpretation: RT

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NRTI Mutations: K219E

NNRTI Mutations: E138A

RT Other Mutations: E6K • V35T • S48T • V601 • K103I • K122E • D123E • 1135T • K166T • K173S • Q174K • N175H • D177E • V179I • 7200A • 1200Y • Q247S • P247L • S251C • N255M • D256N • 257T • Q258E • K235L • L260V • V261G • G262N • K263\* • L264M • N265G • W266S

### Nucleoside Reverse Transcriptase Inhibitors

abacavir (ABC) Susceptible
zidovudine (AZT) Potential Low-Level Resistance

 stavudine (D4T)
 Potential Low-Level Resistance

 didanosine (DDI)
 Susceptible

 emtricitabine (FTC)
 Susceptible

lamivudine (3TC) Susceptible tenofovir (TDF) Susceptible

#### Non-nucleoside Reverse Transcriptase Inhibitors

doravirine (DOR) Susceptible efavirenz (EFV) Susceptible

etravirine (ETR) Potential Low-Level Resistance nevirapine (NVP) Susceptible rilpivirine (RPV) Low-Level Resistance

## RT comments

## NRTI

K219E/Q/N/R are accessory TAMS that usually occur in combination with multiple other TAMs.

## NNRTI

E138A is a common polymorphic accessory mutation weakly selected in persons receiving ETR and RPV. It reduces ETR and RPV susceptibility ~2-fold. Its effect on ETR- and RPV-containing regimens is likely to be minimal.

# Other

- K103N is a non-polymorphic mutation that confers high-level reductions in NVP and EFV susceptibility. K103S is a non-polymorphic mutation that causes high-level reductions in NVP susceptibility. K103N, persons with K103N may be likely to have once had K103N. It is the most commonly transmitted DRM. K103T is an extremely rare non-polymorphic mutation that appears to confer intermediate/high-level resistance to NVP but it has little if any effect on EFV susceptibility. K103H is a rare non-polymorphic mutation at this position.
- V179I is a polymorphic mutation that is frequently selected in persons receiving ETR and RPV. However, it has little, if any, direct effect on NNRTI susceptibility.
- P236L is a rare mutation selected commonly by DLV, which appears to have little if any effect on current NNRTIs. P236del is a highly unusual mutation at this position.
- This virus is predicted to have low-level reduced susceptibility to RPV. The use of the combination of CAB/RPV should be considered to be relatively contraindicated.

Mutation scoring: RT

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brug resistance mutation scores or nieri.					Download CSV		
Rule	ABC ÷	AZT ≑	D4T ≑	DDI	FTC ÷	зтс ≑	TDF
K219E	5	10	10	5	0	0	5

Drug resistance mutation scores of NNRTI:

Rule DOR \$\pi\$ EFV \$\pi\$ ETR \$\pi\$ NVP \$\pi\$ RPV \$\pi\$