Drug resistance interpretation: RT HIVDB 9.5.1 (2023-11-05)

NRTI Mutations: None
NNRTI Mutations: None

RT Other Mutations: A554S - V559I -

Nucleoside Reverse Transcriptase Inhibitors

Non-nucleoside Reverse Transcriptase Inhibitors

doravirine (DOR) Susceptible
efavirenz (EFV) Susceptible
etravirine (ETR) Susceptible
nevirapine (NVP) Susceptible
rilpivirine (RPV) Susceptible

 zidovudine (AZT)
 Susceptible

 stavudine (D4T)
 Susceptible

 didanosine (DDI)
 Susceptible

 emtricitabine (FTC)
 Susceptible

Susceptible Susceptible

Susceptible

Mutation scoring: RT

lamivudine (3TC)

tenofovir (TDF)

abacavir (ABC)

No drug resistance mutations were found for NRTL

No drug resistance mutations were found for NNRTI.

Drug resistance interpretation: IN

INSTI Major Mutations: T66TA https://doi.org/10.000

INSTI Accessory Mutations: L74LM M COLUMN

Integrase Strand Transfer Inhibitors

bictegravir (BIC)

cabotegravir (CAB)

dolutegravir (DTG)

elvitegravir (EVG)

raltegravir (RAL)

Susceptible

Susceptible

High-Level Resistance

Low-Level Resistance

IN comments

Major

T66A/I are non-polymorphic mutations selected in persons receiving EVG, RAL, and DTG usually in combination with other INSTI-resistance mutations. They cause moderate reductions in EVG susceptibility but do not appear to reduce susceptibility to other INSTIs.

Accessory

• L74M is a common polymorphic INSTI-resistance mutation. It has a prevalence between 1% and 5% among INSTI-naïve persons depending on subtype. It appears to be selected by each of the INSTIs. Alone it does not reduce INSTI susceptibility. However, in combination with other INSTI-resistance mutations, it contributes reduced susceptibility to each of the INSTIs.

Other

- M50I is a highly polymorphic mutation, which has a prevalence of 3% to 34% in INSTI-naïve persons depending on subtype. It has been selected in vitro by DTG and BIC in combination with R263K. It may contribute to reduced DTG and CAB susceptibility in combination with R263K.
- S119R is a polymorphic mutation that is weakly selected by INSTIs usually in combination with several major INSTI-associated DRMs. Alone, it has little, if any effect, on INSTI susceptibility.

Mutation scoring: IN

HIVDB 9.5.1 (2023-11-05)

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Drug resistance mutation scores of INSTI:				Download	CSV -
Rule	BIC ÷	CAB ≑	DTG ÷	EVG ÷	RAL ≑
TEETA				60	15