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

NRTI Mutations: None NNRTI Mutations: None

Nucleoside Reverse Transcriptase Inhibitors

Non-nucleoside Reverse Transcriptase Inhibitors

abacavir (ABC)	Susceptible
zidovudine (AZT)	Susceptible
stavudine (D4T)	Susceptible
didanosine (DDI)	Susceptible
emtricitabine (FTC)	Susceptible
lamivudine (3TC)	Susceptible

Susceptible

doravirine (DOR)

efavirenz (EFV)

etravirine (ETR)

nevirapine (NVP)

rilpivirine (RPV)

Susceptible

Susceptible

Susceptible

Mutation scoring: RT

tenofovir (TDF)

HIVDB 9.5.1 (2023-11-05)

No drug resistance mutations were found for NRTI.

No drug resistance mutations were found for NNRTI.

Drug resistance interpretation: IN

HIVDB 9.5.1 (2023-11-05)

INSTI Major Mutations: G118GR - MIN B 2004 N155H NID

INSTI Accessory Mutations:

IN Other Mutations: K14R *** * V311 *** * M500 *** * K12R *** * K136Q *** * K211R *** * S283G *** * S2

Integrase Strand Transfer Inhibitors

bictegravir (BIC) Intermediate Resistance
cabotegravir (CAB) High-Level Resistance
dolutegravir (DTG) High-Level Resistance
elvitegravir (EVG) High-Level Resistance
raltegravir (RAL) High-Level Resistance

IN comments

Major

- G118R is a nonpolymorphic mutation reported in a significant proportion of persons with VF and emergent HIVDR in persons receiving a DTG-containing regimen. It has occasionally been reported in persons receiving a DTG-containing regimen. It has occasionally been reported in persons receiving a DTG-containing regimen. It has occasionally been reported in persons receiving a DTG-containing regimen. It has occasionally been reported in persons receiving a DTG-containing regimen. It has occasionally been reported in persons receiving a DTG-containing regimen. It has occasionally been reported in persons receiving a DTG-containing regimen. It has occasionally been reported in persons receiving a DTG-containing regimen. It has occasionally been reported in persons receiving a DTG-containing regimen. It has occasionally been reported in persons receiving a DTG-containing regimen. It has occasionally been reported in persons receiving a DTG-containing regimen. It has occasionally been reported in persons receiving a DTG-containing regimen. It has occasionally been reported in persons receiving a DTG-containing regimen. It has occasionally been reported in persons receiving a DTG-containing regimen. It has occasionally been reported in persons receiving a DTG-containing regimen. It has occasionally been reported in persons receiving a DTG-containing regimen. It has occasionally been reported in persons receiving a DTG-containing regimen. It has occasionally been reported in persons receiving a DTG-containing regimen. It has occasionally been reported in persons receiving a DTG-containing regimen. It has occasionally been reported in persons receiving a DTG-containing regimen. It has occasionally been reported in persons receiving a DTG-containing regimen. It has occasionally been reported in persons receiving a DTG-containing regimen. It has occasionally been reported in persons receiving a DTG-containing regimen. It has occasionally be a DTG-containing regimen. It has occasionally be a DTG-containing regimen. It h
- N155H is a common nonpolymorphic INSTI-resistance mutations. It has been reported in a high proportion of persons developing VF and CAB. Alone, it reduces RAL and EVG susceptibility about 10 and 30-fold, respectively. It has minimal effect on susceptibility to DTG, BIC, and CAB.

- 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.
- There is evidence for high-level DTG resistance. If DTG is used, it should be administered twice daily.

Mutation scoring: IN
HIVD8 9.5.1 (2023-11-05)

-Download CSV Drug resistance mutation scores of INSTI: CAB : DTG EVG RAL: 60 50 60 60 10 25 10 60 60 120 Total 40 85 60 120