INSTI Accessory Mutations: None

Drug resistance interpretation: IN

IN Other Mutations: K14R • V31I • J73V • E92A • T112V • I113V • T125A • K136Q • V201I • L234I • S283G • D286N

Integrase Strand Transfer Inhibitors

bictegravir (BIC) Potential Low-Level Resistance
cabotegravir (CAB) Low-Level Resistance

dolutegravir (DTG) Potential Low-Level Resistance

elvitegravir (EVG) High-Level Resistance

raltegravir (RAL) High-Level Resistance

IN comments

Majo

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.

Other

- E92Q is a common non-polymorphic mutation selected in persons receiving RAL and EVG. It reduces RAL susceptibility to the INSTIS. E92A is an unusual mutation at this position.
- This virus is predicted to have low-level reduced susceptibility to CAB. The use of the combination of CAB/RPV should be considered to be relatively contraindicated.

Mutation scoring: IN

 Drug resistance mutation scores of INSTI:
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 Rule
 BIC ⊕
 CAB ⊕
 DTG ⊕
 EVG ⊕
 RAL ⊕

 N153H
 10
 25
 10
 60
 60

HIVDB 9.5.1 (2023-11-05)

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