Drug resistance interpretation: IN INSTI Major Mutations: E92Q • N155H

INSTI Accessory Mutations: None

IN Other Mutations: E11D • V31M • V32I • S39C • I72V • L101I • K111R • S119P • I135V • G193E • V201I • T218S • D288G

## Integrase Strand Transfer Inhibitors

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

## IN comments

- E92Q is a common non-polymorphic mutation selected in persons receiving RAL and EVG. It reduces RAL susceptibility 5 to 10-fold and EVG susceptibility ~30-fold. It does not reduce susceptibility to BIC, CAB, and DTG.
- N155H is a common nonpolymorphic INSTI-resistance mutations. It has been reported in a high proportion of persons developing VF and HIVDR while receiving RAL, EVG, DTG, 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.
- . There is evidence for intermediate DTG resistance. If DTG is used, it should be administered twice daily.

## Mutation scoring: IN

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L	rug resistance mutation scores or INSTE				Download CSV	
	Rule	BIC ‡	CAB ≑	DTG ≑	EVG ≎	RAL
ľ	E920	10	15	10	60	30
ľ	E92Q + N155H	10	20	10	10	10
	N155H	10	25	10	60	60
	Total	30	60	30	130	100

HIVDB 9.5.1 (2023-11-05)

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