G1405 • Q148H INSTI Major Mutations:

INSTI Accessory Mutations:

None

IN Other Mutations: S17N · S24D · S39C · L45LQ · L101I · T124N · D167E · V201I · E212A · R284G · D286N

Integrase Strand Transfer Inhibitors

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

IN comments

- 61405/A/C are non-polymorphic mutations that usually occur with Q148 mutations. Alone, they have minimal effects on INSTI susceptibility. However, in combination with Q148 mutations they are associated with high-level resistance to RAL and EVG and intermediate reductions in DTG and BIC susceptibility.
- Q148H/K/R are nonpolymorphic mutations reported in persons receiving RAL, EVG, CAB, and DTG. They nearly always occur in combination with G140A/S or E138K. In this setting they are associated with near complete resistance to RAL and EVG, high-levels of reduction in CAB susceptibility, and low-to-intermediate reductions in DTG and BIC susceptibility.
- . There is evidence for intermediate DTG resistance. If DTG is used, it should be administered twice daily.

Mutation scoring: IN

Drug resistance mutation scores of INSTI:

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EVG G1405+Q148H 45 Total 60

HIVDB 9.5.1 (2023-11-05)