Genotypic ARV Resistance Report

Patient Information Our Ref. ID: VCI-21208

Name: ๕ โอชา ไชยโสดา Your Ref. ID: P22-06581

Hospital/Site: PRIBTA Study/Visit:

Risk Factor:No InformationCollection Date:21-Feb-2022Clinical Staging:No InformationCDC Staging:No InformationGenotyping Date:07-Mar-2022

Lab Information

Current CD4: No Information Current Antiretroviral: Unknown

Current VL: 395000 copies/ml (21-Feb-2022)

Summary Data

Subtype and % similarity to closest reference isolate: CRF01 AE (97%)

Sequence includes RT: condons: 20 - 244

Resistance Report (RT)

RT TAMs:

RT NNRTIs: E138EK

RT Other: V35T, T39K, K43E, V90VI, K122E, D123NS, K166R, K173I, Q174K, D177E, I178M, V179I, T200TAIV, E204Q,

Q207A, R211S, K238R

	Antiretroviral	High-level resistance	Intermediate resistance	Low-level resistance	Potential low-level resistance	Susceptible
NRTI						
zidovudine (AZT)						
tenofovir (TDF)						
stavudine (D4T)						
lamivudine (3TC)						
emtricitabine (FTC)						
didanosine (DDI)						
abacavir (ABC)						
NNRTI						
rilpivirine (RPV)						
nevirapine (NVP)						
etravirine (ETR)						
efavirenz (EFV)						
doravirine (DOR)						
				Co	nsensusR#2	21208RT.t

Remark: 1. Although the mutation is not found, it does not mean that one is fully susceptible to the treatment since the resistant virus may be minor population which cannot be detected by the assay (detectable limit = viral load 1,000 copies/ml).

3. References: Stanford dBase system (http://hivdb.stanford.edu/)

Reported by:	Date: 7/3/2022
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^{2.} The accumulation of TAMs (M41L, D67N, K70R, L210W, T215Y/F, K219Q/E) increases resistance to tenofovir. Mutations M41L and L210W, contribute more than others

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Mutation Scoring

	NNRTI							
	DOR	EFV	ETR	NVP	RPV			
E138EK	10	10	10	10	45			

RT Comments

Other

- V179I is a polymorphic mutation that is frequently selected in patients receiving ETR and RPV. But It has little, if any, direct effect on NNRTI susceptibility.
- K238R is a common polymorphism that does not reduce NNRTI susceptibility.
- V90I is a polymorphic accessory mutation weakly selected by each of the NNRTIs. It has a weight of 1.0 in the Tibotec ETR genotypic susceptibility score but is associated with minimal, if any, detectable reduction in NNRTI susceptibility.

NNRTI

• E138K is a non-polymorphic mutation selected in a high proportion of patients receiving RPV. It reduces RPV susceptibility by 2 to 3-fold and in combination with K101E or the NRTI-resistance mutation M184I, it is sufficient to cause virological failure on a first-line RPV-containing regimen. E138K causes low-level cross-resistance to ETR and possibly to DOR.

Dosage

• This virus is predicted to have intermediate-level reduced susceptibility to RPV. The use of the combination of CAB/RPV should be considered to be contraindicated.