

## Supplementary Appendix

The authors provided this appendix to give readers additional information about their work:

### Human Immunodeficiency Virus type 1 Drug Resistance Mutations in Patients Failing Antiretroviral Therapy in Lebanon from 2009 to 2013

Ahmad A. Hachem<sup>1†</sup>, Essa H. Hariri<sup>1†</sup>, Anthony Mansour<sup>1†</sup>, Jacques Mokhbat<sup>1, 2</sup>

<sup>1</sup> School of Medicine, Lebanese American University, Byblos, Lebanon

<sup>2</sup> Department of Internal Medicine, Lebanese American University Medical Center - Rizk Hospital, Beirut, Lebanon

<sup>†</sup>These authors contributed equally to this work

**Table:** Major resistance mutations found in the study subjects and their resistance profile.

ID	MUTATIONS NRTI	MUTATION NNRTIS	PI
<b>CWEF</b>	M184V, T215Y, T69D, M41L, K70R	K103N, M230L, A98G	
<b>PMXE</b>	M41L, T69D, K70R, V75M, M184V, T215F	K103N, G190A	V82A, L90M
<b>IEFS</b>	M41L, M184V, T215F	A98G, K103N	I47V, V82A, L90M
<b>CJEV</b>			
<b>XAZ XAZ</b>			
<b>VFEO VFEO</b>	M184I	A98G, K103N, Y181C, G190A	
<b>PHMF</b>			
<b>JLEW</b>	M184V, T215Y	G190A	V82A
<b>POLE POLE</b>	M41L, M184V, T215Y	A98G, K103N, P225H	
<b>ELNS</b>	M184V, T215Y		
<b>LLIH</b>	M184V	K103N	
<b>ADIN</b>	M41L, M184V, T215Y		V82F
<b>IOLS</b>		K130N	
<b>CJEM</b>	M184V, K70R, T215F	A98G, Y188L	I47V

<b>HWMF</b>			
<b>LCEE</b>		K103N	
<b>ODIE</b>		P225H (EFV)	
<b>UDEL</b>	M184V		
<b>ODIE</b>	M184V	A98G, K103N, P225H	
<b>DNEF</b>	M184I	K103N, G190A, P225H	
<b>LHES</b>	M41L, M184V, T215Y, L210W	A98G, P225H	
<b>CEFH CEFH</b>	M184V	K103N	
<b>LLEH</b>	M41L, M184V, L210W, T215Y		V82A, L90M, V32I
<b>OLEQ OLEQ</b>	K70R, T215F	G190V	M46I, I47V, I54V
<b>OLEQ</b>	K70R, M184I, T215F	Y181C, G190V	V32I, I47V
<b>ORNI</b>			
<b>MGLI</b>			
<b>CLEX 9</b>			
<b>KQSY KQSY</b>			
<b>LOVM</b>	M41L, V75M, M184V, L210W, T215Y	G190S	
<b>YQYW</b>			
<b>YQYW</b>			
<b>COLE COLE</b>		G190A	
<b>JOLV JOLV</b>			
<b>OFSY OFSY</b>	K65R (TDF, ddl, ABC, d4T)	K103N, Y181C, G190A	
<b>JQSY JQSY</b>			
<b>ONID ONID</b>		K103N	
<b>MQER</b>			
<b>MQER</b>			
<b>KLEG KLEG</b>	M184V, T215F	K103N, Y181C, G190A	
<b>COLE</b>		G190A	
<b>OWEC</b>			
<b>COES</b>			
<b>RWEES</b>			
<b>LONM</b>	M41L, V75M, M184V, L210W, T215Y	G190S	

<b>JOLV</b>			
<b>OWEK</b>	K70R, L74V, M184V	Y181C	M46I, I47V, I54V, I84V
<b>ODIE</b>	M184V	P225H	
<b>JLEW</b>	M184V	G190A	V82A
<b>JEWL</b>	M184V	Y181C	
<b>JOLV</b>	–	–	–
<b>JOLE</b>	–	–	–
<b>TVEC</b>	–	–	–
<b>VEFF</b>	–	–	–
<b>TXEZ</b>	–	–	–
<b>HWMF</b>	–	–	–
<b>COLE</b>	M184V, K65R	G190A, K103N	–
<b>OWEK</b>	K70R, M184V	P225H	I47V, I84V
<b>IXER</b>	M184V, T215Y	Y181C	V82A, L90M
<b>OOVI</b>	V75T, M184V, M41L+T215Y+L210W	K103N	I84V
<b>UWEX</b>	K65R, M184V	Y181C	
<b>JAEV</b>	K65R	K103N, G190S	
<b>OEPE</b>	T215F, M184V	K103N, Y181C	
<b>CRIL</b>			
<b>NWEM</b>	T215Y	K101E, Y188L	
<b>OJEV</b>	T215Y, M184V	P225H, Y188L	L90M