

Supplementary Table 1. Patients' Characteristics

Subject NO#	Viral Marker	Tumor Site	Sex	Stage	Best Response	Response Category	Hemoglobin(g/L)		
							C0	C1	C5
CCI-1	p16	Penis	M	IV	iUPD	NR	137	130	N/A
CCI-2	p16	Larynx	M	IVC	iCCR	R	98	104	127
CCI-3	EBER	Nasopharynx	M	II	iCCR	R	97	90	72
CCI-4	p16	Penis	M	IV	iCPR	R	159	159	161
CCI-5	EBER	Nasopharynx	M	III	iCPD	NR	158	149	144
CCI-7	p16	Anal	M	III	NE	NE	150	139	N/A
CCI-8	EBER	Nasopharynx	M	IVA	iUPD	NR	149	141	148
CCI-9	EBER	Nasopharynx	F	IVB	iCPD	NR	118	140	123
CCI-10	p16	Tonsil	M	IVC	iUPD	NR	113	131	114
CCI-11	p16	Vulva	F	IVA	NE	NE	127	124	N/A
CCI-12	EBER	Nasopharynx	M	II	iUPD	NR	127	123	91
CCI-13	p16	Oropharynx	M	IV	NE	NE	90	91	N/A
CCI-14	p16	Cervix	F	II	iUPD	NR	110	105	N/A
CCI-15	p16	Penis	M	II	iUPR	R	131	133	N/A
CCI-17	p16	Cervix	F	III	iCPD	NR	135	123	143
CCI-19	p16	Unknown	F	IV	iCPR	R	129	138	142
CCI-20	p16	Vulva	F	III	iUPD	NR	116	108	102
CCI-21	EBER	Nasopharynx	M	IVA	NE	NE	118	128	129
CCI-22	p16	Cervix	F	II	iSD	R	109	86	N/A
CCI-23	EBER	Nasopharynx	M	IVA	NE	Progression	108	111	N/A
CCI-24	EBER	Tonsil	M	III	iUPD	NR	128	125	127
CCI-25	EBER	Nasopharynx	M	IVA	iSD	R	162	163	159
CCI-26	p16	Cervix	F	IVB	NE	NE	126	151	N/A
CCI-27	p16	Cervix	F	IVA	iSD	R	101	104	94
CCI-28	p16	Nasopharynx	M	III	iUPR	R	135	138	133
CCI-29	p16	Oropharynx	M	IVB	iCPD	NR	128	132	111
CCI-30	p16	Tonsil	M	III	NE	Progression	132	131	N/A
CCI-31	p16	Tonsil	M	II	iSD	R	135	139	132
CCI-32	EBER	Nasopharynx	M	IVB	iCPD	NR	131	138	133
CCI-33	p16	Anal	F	IV	iCCR	R	99	91	99
CCI-34	EBER	Nasopharynx	M	IVA	iCPD	NR	145	144	137
CCI-35	EBER	Nasopharynx	F	IVB	iSD	R	134	127	130
CCI-37	p16	Cervix	F	IVB	iCPD	NR	116	118	112
CCI-38	p16	Anal	F	IV	iUPD	NR	99	101	N/A
CCI-39	p16	Cervix	F	IVB	iUPR	R	106	105	107
CCI-40	p16	Anal	M	IV	iUPD	NR	146	137	124
CCI-41	p16	Anal	F	IV	iUPD	NR	93	84	N/A
CCI-42	EBER	Nasopharynx	M	IVA	iUPD	NR	111	106	110
CCI-43	p16	Anal	F	IV	iUPD	NR	102	117	112

M: Male, F: Female, iUPD: Unconfirmed progressive disease, iCCR: Confirmed complete response, iCPD: Confirmed progressive disease, NE: Response was not evaluated, iUPR:

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Unconfirmed partial response, iCPR: Confirmed partial response, iSD: Stable disease, NR: Non-responder, R: Responder, C0: Baseline, C1: Cycle 1, C5: Cycle 5, N/A: Not available. Epstein-Barr virus-encoded small RNAs (EBER). HPB related protein (p16).