

Table S1. Characteristics of patients with hemorrhagic cystitis.

Case	Sex/age	Dx	Stem cell source	Donor	HC	Onset of HC	BKV pre-HSCT serology	Pre-HSCT urine BKV VL copies/mL	Maximum urine BKV VL copies/mL	Urine BKV VL during HC	Urine adenovirus VL during HC	CMV viremia	HHV-6	ADV viremia	Outcomes
1	M/63.5	MM	TCD PBSC,	MRD	2	+61	1:40,960	0	>10 ¹⁰	1.3x 10 ¹⁰	ND	+		ND	Autopsy: BKV ATN #293 Bilateral hydronephrosis
1	M/63.5	MM	TCD PBSC,	MRD	3	+271	1:40,960			Blood BKV VL 3,682	negative	+		-	
2	M/61.2	MM	TCD PBSC,	MUD	2	+4	1:10,240	1.2x10 ⁹	>10 ¹⁰	8.9x10 ⁹	ND	-		ND	#211 Left kidney hydronephrosis
2	M/61.2	MM	TCD PBSC,	MUD	4	+204	1:10,240				5.3x10 ⁶	-		+	
3	F/63.9	Lymphoma	DCB	DCB	3	+146	1:10,240	1.1x10 ⁸	1.6x10 ⁹	5x10 ⁸	600	+		+	
4	M/51.9	AML	DCB	DCB	2	+31	1:2,560	2.7x10 ⁷	3.8x10 ⁹	6.2x10 ⁷	ND	-	+	ND	
5	M/47.7	AML	DCB	DCB	2	+46	1:40,960	0	3.0x10 ⁷	7x10 ⁵	5.2x10 ⁶	+		+	Urine Adenovirus positive Autopsy: left kidney interstitial inflammation, bladder hemorrhage with congestion
6	M/63.8	MDS	TCD PBSC,	MMUD	2	+134	1:40,960	800	>10 ¹⁰		ND	-		-	Urine cytology: BKV associated changes
7	M/51.1	AML	cPBSC	MUD	2	+66	1:10,240	0	2.4x10 ⁹	2.4x10 ⁹	ND	-		ND	
8	M/67.2	ALL	TCD PBSC,	MRD	3	+34	1:10,240	0	0	0	ND	+	+	+	
9	M/60.8	MDS	BM	MUD	2	0	1:10,240	0	0	0	ND	-		ND	
10	M/56.3	CLL	cPBSC	MUD	2	+1	1:40,960	0	0	0	ND	-	+	-	

Abbreviations: Dx, diagnosis; HC, hemorrhagic cystitis; HSCT, hematopoietic stem cell transplant; VL, viral load; CMV, cytomegalovirus; HHV-6, human herpes virus 6; MM, multiple myeloma; AML, acute myelogenous leukemia; MDS, myelodysplastic syndrome; ALL, acute lymphoblastic leukemia; CLL, chronic lymphocytic leukemia; TCD, T-cell depleted; PBSC, peripheral blood stem cell; cPBSC, conventional peripheral stem cell; DCB, double umbilical cord blood; BM, bone marrow; MRD, matched related donor; MUD, matched unrelated donor; MMUD, mismatched unrelated donor; ND, not done