

Automated production of specific T cells for treatment of refractory viral infections after allogeneic stem cell transplantation

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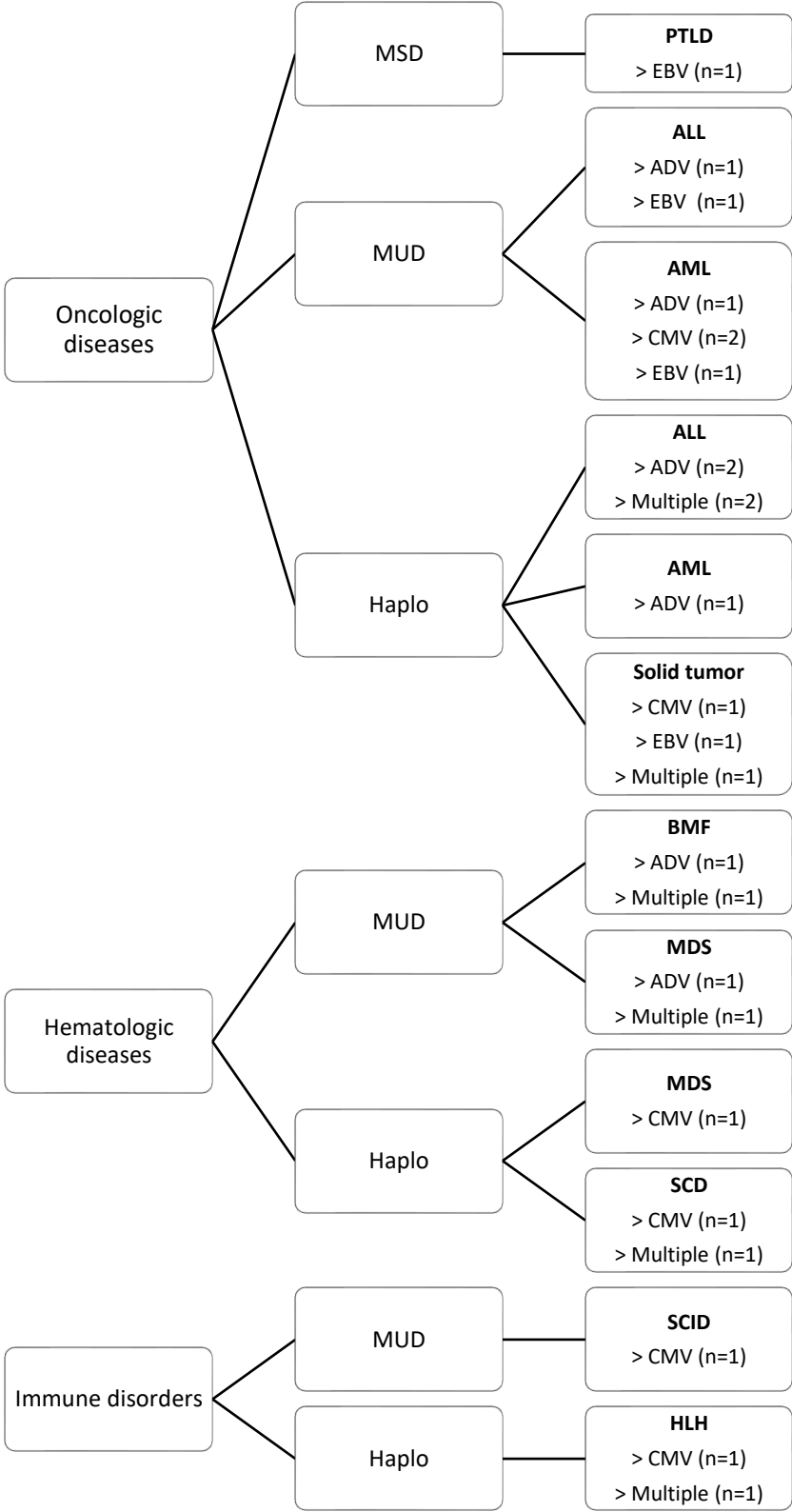
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Supplementary Figure 1: Flow chart of diagnoses, type of stem cell donor and type of viral infection in n=25 patients with known main diagnosis (n=1 diagnosis not specified)



ALL: acute lymphoblastic leukemia; AML: acute myeloid leukemia; BMF: bone marrow failure, congenital (n=1) or due to Fanconi anemia (n=1); HLH: hemophagocytic lymphohistiocytosis; MDS: myelodysplastic syndrome; PTLD: post-transplant lymphoproliferative disease; SCD: sickle cell disease; SCID: severe combined immunodeficiency

Supplementary Table 1:

Toxicity attributed to virus specific T cell infusion graded according to CTCAE v3

	0	1	2	3	4
Diarrhea	21	0	0	1	1
Nausea	21	1	0	1	0
Skin	22	1	0	0	0
Fever	20	0	3	0	0
Infection	22	1	0	0	0
Total		3	3	2	1

CTCAE v3: Common Terminology Criteria of Adverse Events version 3

Supplementary Table 2:

Total count of virus specific symptoms before start of treatment

Symptoms	ADV	CMV	EBV
Nausea	5	1	1
Diarrhea	5	1	
Hepatitis	2	1	
Acute kidney injury	1		
Encephalitis	1		
Pneumonia	1	6	
Dysphagia			1

ADV: adenovirus; CMV: (human) cytomegaly virus; EBV: Epstein Barr virus

Supplementary Table 3:

Causes of death (n=18) in responding (n=20) and non-responding (n=6) patients as described by treating physician

Prior response to treatment	Status of viral infection at death	Cause of death	N
yes	Deceased due to viral infection	ADV infection	1
		Fungal pneumonia	1
	Deceased with viral infection	Multi-organ failure	1
		Prior curation of viral infection	ARDS
	Prior curation of viral infection	Multi-organ failure	2
		Respiratory failure	2
	Non-infection related	Relapse of primary disease	3
Total			12/20
no	Deceased due to viral infection	ADV infection	2
		CMV pneumonia	1
	Deceased with viral infection	Cardiogenic shock	1
		Intracranial hemorrhage	1
		Multi-organ failure	1
Total			6/6