

**Supplementary Table 1.** National Cancer Institute Common Terminology Criteria for Adverse Events.<sup>6</sup>

	<b>Grade 1</b>	<b>Grade 2</b>	<b>Grade 3</b>	<b>Grade 4</b>
<b>Neutrophils</b>	<normal to 1500/ $\mu$ L	1000 to 1500/ $\mu$ L	500 to 1000/ $\mu$ L	<500/ $\mu$ L
<b>Platelets</b>	<normal to 75,000/ $\mu$ L	50,000 to 75,000/ $\mu$ L	25,000 to 50,000/ $\mu$ L	<25,000/ $\mu$ L
<b>Hemoglobin</b>	<normal to 10 g/dL	8.0 to 10.0 g/dL	<8.0 g/dL	Life-threatening

**Supplementary Table 2.** Causes of death in the whole population and in patients with severe cytopenia.

Cause of death	Whole population n=170	With Severe cytopenia N=25
Original disease	145 (86.8%)	22 (88%)
Cell therapy related	10 (6.0%)	3 (12%)
Infection	7 (4.2%)	0
Organ toxicity	1 (0.6%)	0
Other	4 (2.4%)	0
missing	3	0

**Supplementary Table 3.** Infections in the whole population and in patients with severe cytopenia.

Variable	Level	Overall population n=398	With severe cytopenia n=48
<b>Bacteremia</b>	Documented cases	46	5
	Day after CAR-T. Median (min-max)	23.5 (0-80)	43 (28-76)
<b>Pneumonia</b>	Documented cases	21	3
	Day after CAR-T. Median (min-max)	16 (0-85)	22 (3-25)
<b>Upper respiratory tract infection</b>	Documented cases	13	1
	Day after CAR-T. Median (min-max)	25 (4-96)	25 (25-25)
<b>Cystitis</b>	Documented cases	14	2
	Day after CAR-T. Median (min-max)	46 (4-92)	34 (18-50)
<b>Skin infection</b>	Documented cases	7	0
	Day after CAR-T. Median (min-max)	20.5 (17-58)	N/A
<b>Invasive fungal infections</b>	Documented cases	8	1
	Day after CAR-T. Median (min-max)	21 (0-59)	77
<b>Clostridium difficile enteritis</b>	Documented cases	5	2
	Day after CAR-T. Median (min-max)	17 (13-22)	17.5 (14-21)
<b>CMV reactivation</b>	Documented cases	15	0
	Days after CAR-T. Median (min-max)	17 (0-90)	N/A