

Table S1 Change of cytokines after CAR-T therapy and the intensively supportive care in these patients

			IL-2 (pg/ml)	IL-4 (pg/ml)	IL-6 (pg/ml)	IL-10 (pg/ml)	TNF α (pg/ml)	IFN (pg/ml)	IL-17A (pg/ml)	Toci	GC	Supportive therapy	Adverse events		
Case1	First	d0	0	1.3	6.7	5.2	0	0	0				fever		
		d1	3.5	3.1	37.5	6.6	4	10	0						
		d5	5.9	0	23.6	5.2	2.7	2.8	0						
		d6	3.8	0	49.8	10.6	0	4.7	0				fever		
		d7												fever	
		d8	1.8	0	19.2	4.2	2.5	2.6	0						
		d9	1.3	4.5	4.5	3.9	2.8	0	0						
		Second	d0	1.2	0	14.7	0.6	2.6	4.3	0					fever
			d1	7.5	2.7	27.5	7.5	3.7	10.6	4					fever,chills
	d2		0	2.3	4.6	1.9	0	3.3	0			NA		fever	
	d3		3.8	5.8	15.7	4.2	4.8	10.5	2	80mg		albumin furosemide		fever	
	d4		7.36	5	3713.44	76.02	1.65	761.34	4.46	160mg		NA		fever, hypotension	
	d5		8.9	17.8	875.5	6.4	4.2	46.7	0			CRRT, red blood cells IVIG		fever,AKI	
	Case2	First	d6	6.7	22	316	2.2	3.7	10.4	0			CRRT	fever,AKI	
			d7	4.3	12.6	218.6	3.2	2.6	12.8	0			CRRT	fever,AKI	
d8			3.3	8.3	256.2	1.7	2.9	16.3	0				edema of the face and eyelids		
Second		d9	0.5	3.2	143	13.5	0	38.4	5.1						
		Case3	First	d1	3.1	<2.5	9.3	25.7	<2.5	5.4	<10				
				d2	<2.5	<2.5	9.1	33.9	2.9	6.5	10.7				
d3	<2.5			<2.5	5.4	24.1	<2.5	3.3	<10						
Second	d4		<2.5	<2.5	15.8	71	<2.5	3.8	<10					fever, cephalalgia, hands tremble	
	d5		3.1	<2.5	113.4	302.1	<2.5	48.7	<10	320mg				fever, cephalalgia	
	d6		<2.5	<2.5	2984.2	420.8	2	336.9	<10	160mg				fever	
Case4	First	d7	<2.5	<2.5	192.5	33.9	2.5	4.1	11.9						
		d0	<2.5	<2.5	21.3	8.6	<2.5	<2.5	<10					fever	
		d1	11.9	<2.5	46	12.1	<2.5	19.8	<10	80mg	dex(3mg)	UTI NA		fever, eyelid swelling, oliguria,weight gain,chills	
		d2	8.7	3.3	127.4	25.2	6.4	126.8	<10			UTI,albumin MAP		fever, facial edema, peritoneal and pleural effusion	
		d3	9.4	4.3	1650.2	81.8	2.9	306.6	13.4	80mg	dex(3mg)	UTI, albumin fib		fever, eyelid edema, slight pericardial effusion	
		d4	12.2	14.2	5968.3	290.6	9.8	1637.4	44.3	160mg	dex(3mg) medrol (80mg)	UTI,albumin, fib,NA phenobarbitone		seizure hytotension	
		d5	<2.5	<2.5	1200.9	145.8	<2.5	1274.4	14.9	80mg		UTI,albumin plasma and fib		fever	
		d6	2.9	4.2	552.5	18.6	3.7	67.1	20			UTI,albumin, fib PCC			
Case5	First	d7	<2.5	<2.5	359.8	8.5	<2.5	12.8	<10			UTI			
		d3	5.4	4.0	23	5.3	5.8	21.2	16.1						
		d4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A					fever
		d5	4.8	4.2	8.8	5.0	9.6	52.8	15					fever,chills	
		d6	3.2	4.6	28.9	4.3	3.6	0	0					fever	
		d7	3	3.5	13.7	3.6	2.7	0	0						
d8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			plasma		coagulopathy		

CAR-T therapy, Chimeric Antigen Receptor (CAR) T cell therapy; UTI, ulinastatin; dex, dexamethasone; Toci, tocilizumab; GC, glucocorticoids; NA, norepinephrine; PCC, prothrombin complex concentrate; CRRT, continuous renal replacement therapy; AKI, acute kidney injury; medrol, methylprednisolone; N/A, no detection; IVIG, intravenous immunoglobulin.