

**Table S1** Clinical characteristics and final diagnosis of 10 patients of treatment failure in TPE group

Characteristic	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10
Gender	M	M	F	M	F	M	F	M	M	M
Age	41	20	21	47	47	45	50	66	20	39
BMI	21.6	19.1	19.2	23.9	24.5	24.8	29.8	25.6	17.3	27.7
Smoking index	0	25	0	600	0	400	0	160	80	0
Main complaints	Cough, fever			Fever, chest pain				Cough, fever		
Location	R	R	R	R	R	R	R	L	R	R
Diameter, cm	10	17.2	3.6	12.1	11	8.6		7.3		10.9
Effusion separation	No	No	No	Yes	Yes	No	Yes	No	Yes	Yes
TB-Ab	Neg			Pos	Neg		Pos	Pos		
IGRA				Pos	Neg		Neg	Neg	Pos	Pos
PPD	Pos	Pos	Pos		Pos	Pos			Neg	
Property	Exudate	Exudate	Exudate	Exudate	Exudate	Exudate	Exudate	Exudate	Exudate	Exudate
ADA, U/mL	41.21	433.2	40.89	38.47	41.36	47.56	43.82	58.62	42.77	62.98
CEA (ng/mL)	1.34	1.55	1.25	0.47	1.07	3.72	1.1		0.76	1.5
NSE (ng/mL)	1.17			2	10.14	3.52				
CA199 (U/mL)	3.7	<0.8	3.6	2.1	5.4	9.2	6.6			16.3
CA125 (U/mL)	17.9	158.7	206.8	92.1	202.7	157.1	106.2		61.1	67.2
CA153 (U/mL)				5.5		7.3				
TK1 (pmol/L)	2.57	1.8	3.53	2.79	1.93	3.58			6.21	2.18
WBC ( $\times 10^9/L$ )	6.22	7.3	4.32	5.9	11.5	11.42	6.27	10.51	10.14	5.25
N%	75.6	79.9	69.1	75.1	73.6	74.7	70.2	84.6	95.6	59
PCT (ng/mL)	0.11	<0.05	<0.05	0.12	<0.05	0.06	<0.05	0.10	<0.05	<0.05
ESR (mm/h)	17	4	53	73	89	34	15		44	88
CRP (mg/L)	50.43	6.08	22.3	70.41	83.1	176.98	2.24		48.16	82.05
Drug	HRES	HRES	HREZ	HREZ	HREZ	HRES	HREZ	HREZ	HREZ	HRES
Treatment time, month	3.6	2.3	1.1	2.9	3.3		7.4		3.3	
Final diagnosis	Drug resistance	Drug resistance	Drug resistance	Drug resistance	Angiosarcoma	Pneumonia	Uterine adenomyosis	Lymphoma	Pneumonia	Drug resistance

TPE, tuberculous pleural effusions; TB-Ab, tuberculosis antibody; IGRA, interferon gamma release assay; PPD, purified protein derivative; ADA, adenosine deaminase; CEA, carcinoembryonic antigen; NSE, neuron-specific enolase; CA, carbohydrate antigen; TK1, thymidine kinase 1; WBC, white blood cell; PCT, procalcitonin; ESR, erythrocyte sedimentation rate; CRP, C-reactive protein.