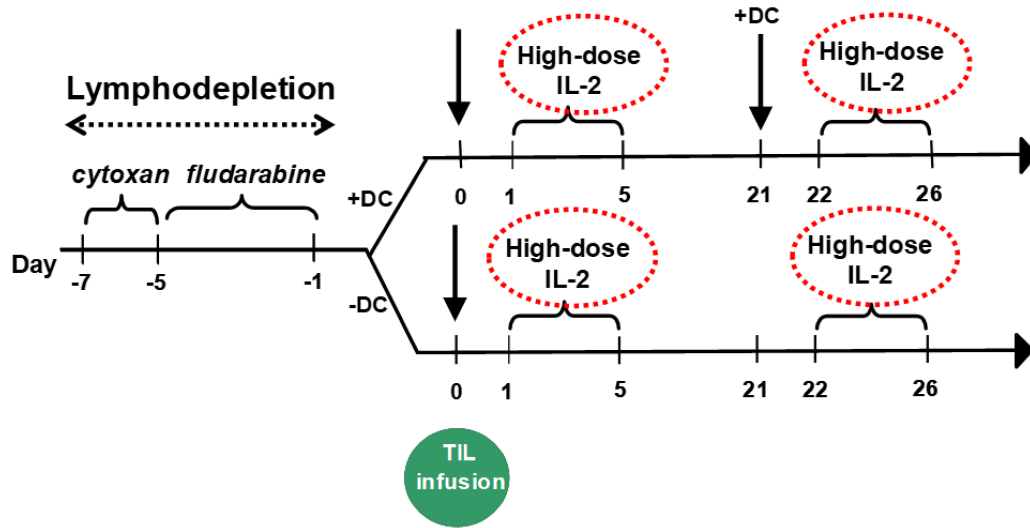


Supplementary Figure 1



Supplementary table 1: All randomized patients Characteristics

Characteristic	Enrolled (n=23)	TILs (n=12)	TIL+DC (n=11)	P value
Median age (range), years	48 (18-71)	49 (32-71)	41 (18-64)	0.15
Sex				
Female	10	4	5	1.00
Male	13	6	3	
White race	23	10	8	-
Melanoma type				
Cutaneous	17	9	8	1.00
Acral	2	1	1	
Undetermined	3	2	1	
Mucosal	1	0	1	
Stage				
4 M1B	2	0	2	0.2
4 M1C	21	12	9	
ECOG*				
0	10	2	8	0.005
1	9	8	1	
LDH#				
Normal	15	8	7	1.0
High	4	2	2	
BRAF mutation				
BRAF V600 E	12	7	5	
BRAF non-V600 E	2	2	0	0.3
WT	4	1	3	
Unknown	5	2	3	
NRAS mutation				
Q61K	3	1	2	0.5
WT	11	7	4	
Unknown	9	4	5	
KIT mutation				
c-KIT	2	2	0	0.5
WT	12	7	5	
Unknown	9	3	6	
Number of infused TILs (range)	-	38.2 (1.7-99) †	69.4 (16.3-130) ‡	0.03

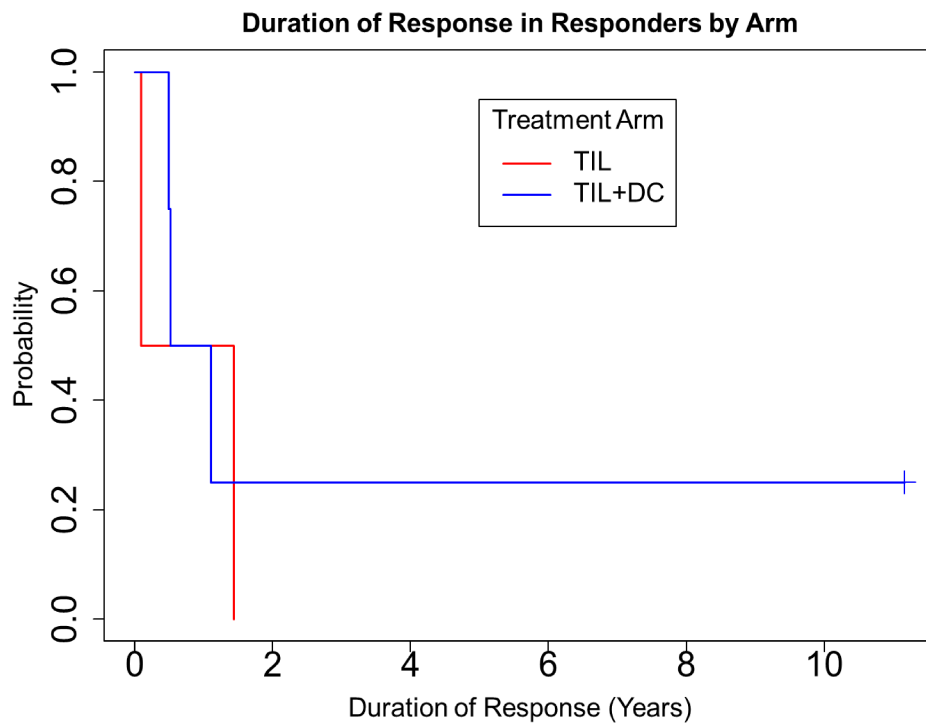
Abbreviations: DC, dendritic cells; ECOG, Eastern Cooperative Oncology Group (0=asymptomatic, 1=symptomatic and ambulatory); WT, wild type; TIL, tumor-infiltrating lymphocytes.

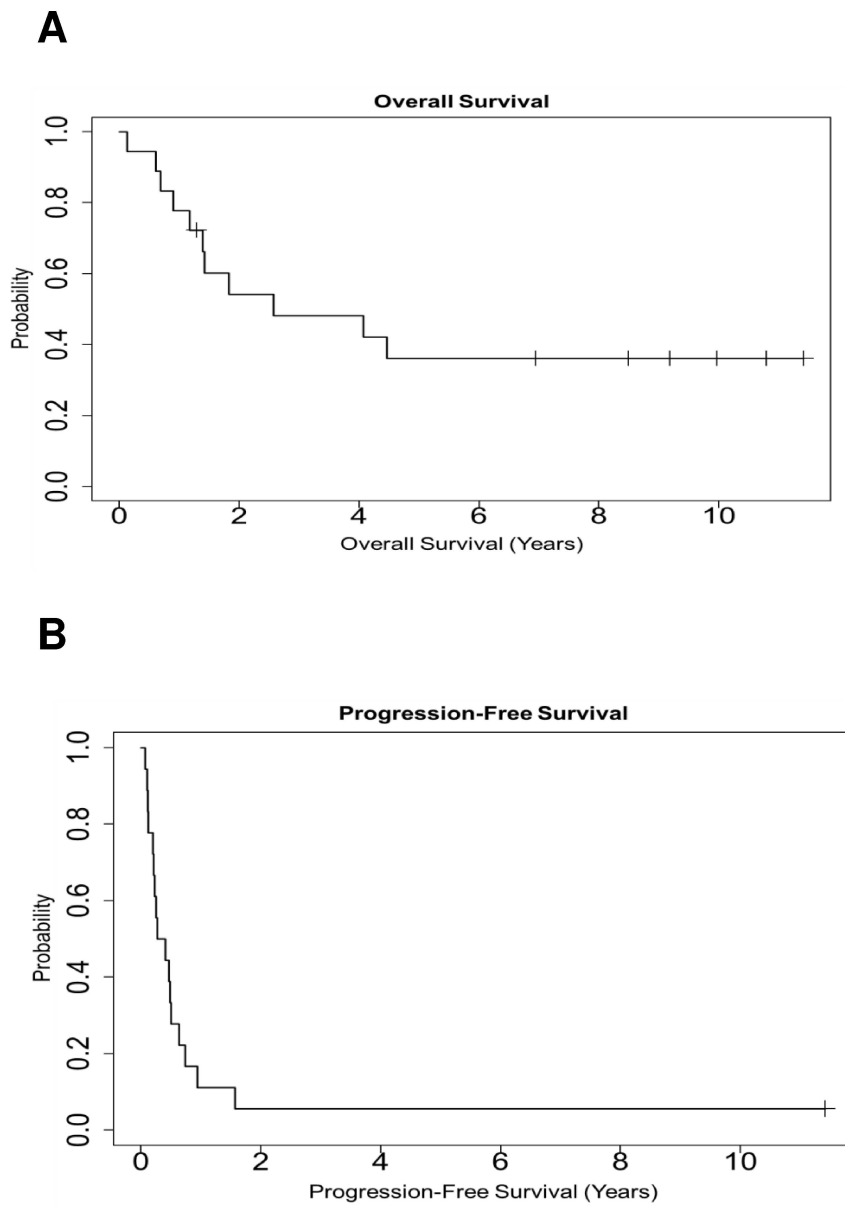
*In four patients, the ECOG was not evaluated

#In four patients, the LDH level was not measured

†Two patients did not receive any TIL therapy; one patient withdrew consent and another patient died before the initiation of treatment

‡ Two patients did not receive any TIL + DC therapy due to rapidly progressive disease. One patient received only one cycle of TIL + DC but was found to be ineligible for analysis as a result of concurrent BRAF inhibitor treatment.

Supplementary Figure 2.

Supplementary Figure 3.

Supplementary Table 1. Adverse events related to treatment

Toxicities	Maximum grade, number			
	1	2	3	4
Hematologic				
Neutropenia		4	6	
Thrombocytopenia		4	6	
Leukopenia		9	1	
Lymphopenia	1	3		
Anemia	3	3	4	
Gastrointestinal				
Nausea/vomiting	4	1	1	
Diarrhea	2			
Constipation	1	1		
Anorexia	2	1	1	
LFT increase	6			
Bilirubin	2	1		
Blood in stool and melena	2			
Renal				
Electrolyte imbalance	6	3	1	
AKI creatinine	5		1	
Urine output decreased	1	2		
Proteinuria	1			
Neurologic				
Fatigue	4	3		
Mental status changes	1			
Headache	1			
Change in vision	1			
Dermatologic				
Alopecia	1	1		
Dry eyes	1			
Phlebitis		1		
Rash	3	2		
Pruritis	3	1		
Vitiligo		1		
Vascular leak syndrome				
Edema, weight gain	8	3		
Dyspnea	4	2		
Capillary leak syndrome	1	1	1	
Pleural effusion	2			
Hypotension	1	1		
Fever/chills	3	2		

AKI, acute kidney injury; LFT, liver function tests