

Suppl. Figure S1. Relationship between risk factors/baseline immune cell parameters and OS in 84 NSCLC patients based on cutoffs of the SCLC group. Mean survival time and p value of the log rank test are given.

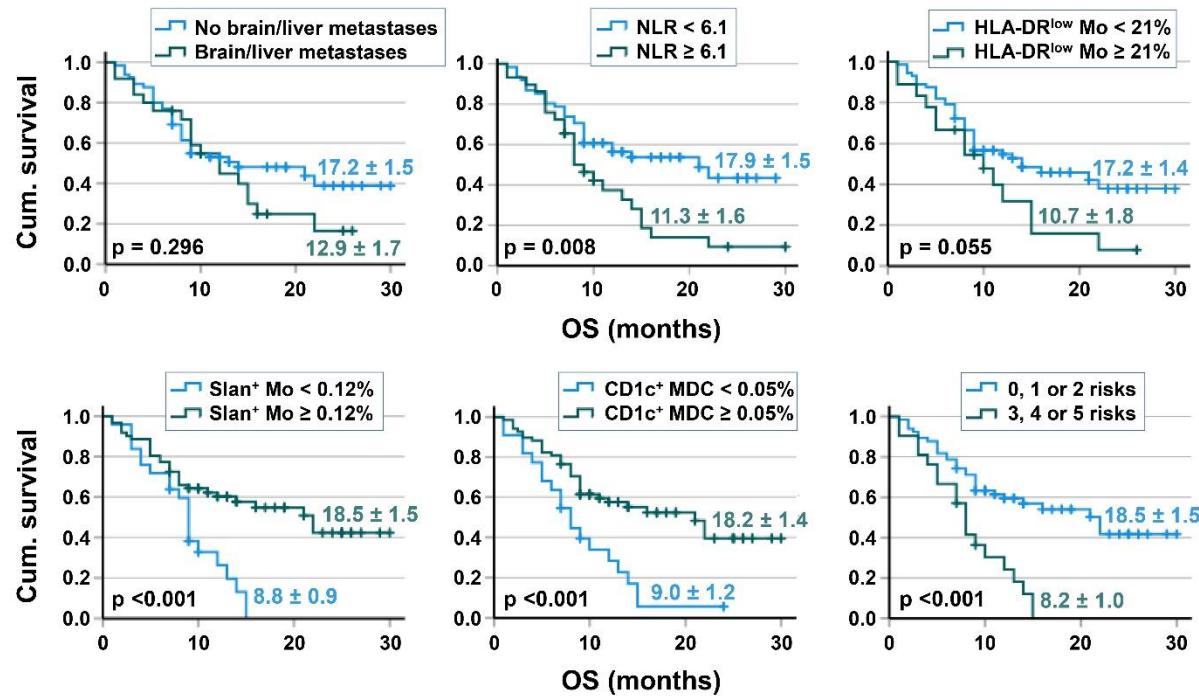


Table S1. Comparison of baseline and third cycle values of blood immune cells in 33 SCLC patients with therapy response to chemo/immunotherapy. Median and interquartile range are given. Bold values highlight significant differences in Wilcoxon test.

Parameters	Baseline	Third cycle	P value
Neutrophil counts (cells/ μ l)	7600 (3500)	9090 (6825)	0.043
Lymphocyte counts (cells/ μ l)	1690 (3500)	2070 (1255)	0.051
NLR	5.1 (6.7)	4.9 (3.8)	
CD3+ T cells	1098 (1156)	1560 (985)	0.019
CD19+ B cells	180 (172)	163 (190)	
NK cells	245 (242)	198 (160)	
Monocytes (cells/ μ l)	660 (467)	850 (340)	0.032
HLA-DR ^{low} MDSC (% of monocytes)	7.4 (10.4)	8.5 (13.3)	
Slan+ non-classical monocytes (% of leukocytes)	0.227 (0.485)	0.219 (0.376)	
CD1c+ MDC (% of leukocytes)	0.07 (0.068)	0.109 (0.155)	0.004
CD141+ MDC (% of leukocytes)	0.004 (0.005)	0.006 (0.006)	
CD303+ PDC (% of leukocytes)	0.051 (0.072)	0.069 (0.074)	
Sum of MDC/PDC (% of leukocytes)	0.126 (0.147)	0.186 (0.187)	0.008

Table S2. Comparison of blood immune cells in SCLC patients with or without brain/liver metastases. Median and interquartile range are given. Bold values highlight significant differences in Mann Whitney U test.

Parameters	No brain/liver metastases	brain/liver metastases	<i>P value</i>
n	17	23	
Neutrophil counts (cells/ μ l)	6880 (2555)	9050 (8420)	
Lymphocyte counts (cells/ μ l)	1560 (1075)	1560 (1034)	
NLR	4.9 (4.4)	6.9 (8.9)	0.066
CD3+ T cells	1136 (1112)	1024 (922)	
CD19+ B cells	186 (176)	170 (167)	
NK cells	255 (252)	201 (179)	
Monocytes (cells/ μ l)	665 (501)	660 (510)	
HLA-DR ^{low} MDSC (% of monocytes)	5.3 (9.1)	12.2 (24.5)	0.034
Slan+ non-classical monocytes (% of leukocytes)	0.30 (0.36)	0.19 (0.61)	
CD1c+ MDC (% of leukocytes)	0.07 (0.048)	0.031 (0.079)	
CD141+ MDC (% of leukocytes)	0.004 (0.003)	0.002 (0.005)	
CD303+ PDC (% of leukocytes)	0.05 (0.08)	0.05 (0.06)	
Sum of MDC/PDC (% of leukocytes)	0.124 (0.111)	0.086 (0.135)	

Table S3. Relationship between baseline immune-cell parameters with patients' OS for 34 SCLC patients responding to chemo/immunotherapy. Data of univariate prognostic factor analysis is provided with estimated mean of survival ± standard error, hazard ratios (HR) with 95% confidence interval (CI) and *p* values.

	Cutoff	n	Kaplan-Meier OS			Cox Regression, OS		
			% censored	OS (months)	<i>p value</i>	HR	95% CI	<i>p value</i>
Neutrophil counts (cells/ μ l)	$\leq 10,000$	28	25	12.6 ± 1.28	0.018		1.1-7.5	0.031
	$> 10,000$	6	0	7.67 ± 1.2		2.87		
NLR	<6.1	19	31.6	14.0 ± 1.69	0.009		1.18-6.26	0.019
	≥ 6.1	15	6.7	8.67 ± 0.77		2.72		
HLA-DR ^{low} MDSC (% of monocytes)	<21	29	24.1	12.3 ± 1.26	0.112		0.77-5.66	0.150
	≥ 21	5	0	8.2 ± 1.39		2.084		
Slan+ monocytes (% of leukocytes)	<0.12	10	0	8.2 ± 1.05	0.023	2.36	1.04-5.36	0.040
	≥ 0.12	24	29.2	13.3 ± 1.44				
CD1c+ MDC (% of leukocytes)	<0.05	15	13.3	9.4 ± 1.19	0.140	1.70	0.79-3.67	0.173
	≥ 0.05	19	26.3	13.2 ± 1.56				
Baseline risk score (5 factors)	0-2 risk factors	22	31.8	13.76 ± 1.53	0.006		1.24-6.31	0.013
	3-5 risk factors	12	0	8.17 ± 0.9		2.80		

Table S4. Relationship between third-cycle blood immune cell parameters with patients' OS for 35 SCLC patients. Data of univariate prognostic factor analysis is provided, with estimated mean of overall survival \pm standard error, hazard ratios (HR) with 95% confidence interval (CI) and *p* values.

	Cutoff	n	Kaplan-Meier OS			Cox Regression, OS		
			% censored	OS (months)	<i>p value</i>	HR	95% CI	<i>p value</i>
Neutrophil counts (cells/ μ l)	$\leq 10,000$	21	28.6	13.2 ± 1.4	0.076		0.88-3.93	0.101
	$> 10,000$	14	7.1	9.2 ± 1.4		1.86		
NLR	< 6.1	23	26.1	13.3 ± 1.4	0.045		0.94-4.61	0.07
	≥ 6.1	12	8.3	8.5 ± 1.15		2.08		
HLA-DR ^{low} MDSC (% of monocytes)	< 21	31	22.6	12.4 ± 1.1	0.011		1.17-10.4	0.025
	≥ 21	4	0	5.8 ± 1.9		3.49		
Slan+ monocytes (% of leukocytes)	< 0.12	13	7.7	8.6 ± 1.3	0.018	2.32	1.08-5.0	0.032
	≥ 0.12	22	27.3	13.5 ± 1.4				
CD1c+ MDC (% of leukocytes)	< 0.05	9	0	6.8 ± 1.3	<0.001	3.51	1.53-8.04	0.003
	≥ 0.05	29	26.9	13.4 ± 1.25				
CD141+ MDC (% of leukocytes)	< 0.0015	7	0	5.9 ± 1.45	<0.001	3.86	1.59-9.37	0.003
	≥ 0.0015	28	25	12.9 ± 1.2				
PDC (% of leukocytes)	< 0.014	6	0	5.7 ± 1.45	<0.001	4.57	1.76-11.88	0.002
	≥ 0.014	29	24.1	12.9 ± 1.2				

Table S5. Baseline blood immune cells parameters of SCLC compared to NSCLC histotypes. Data represent median and interquartile range (IQR), results of Mann-Whitney U-test are shown.

	SCLC	NSCLC	<i>P value</i>
n	40	83	
Neutrophil counts (cells/ μ l)	7680 (5155)	6590 (5330)	
Lymphocyte counts (cells/ μ l)	1560 (1018)	1650 (740)	
NLR	6.12 (7.1)	3.96 (4.42)	0.04
T cells (cells/ μ l)	1051 (1024)	1110 (690)	
B cells (cells/ μ l)	178 (172)	111 (156)	0.05
NK cells (cells/ μ l)	204 (226)	255 (310)	0.009
Monocytes	660 (483)	705 (356)	
HLA-DR ^{low} MDSC (% of monocytes)	9.6 (17.2)	6.9 (14.2)	
Slan+ non-classical monocytes (% of leukocytes)	0.23 (0.46)	0.23 (0.45)	
CD1c+ MDC (% of leukocytes)	0.048 (0.069)	0.099 (0.096)	0.002
CD141+ MDC (% of leukocytes)	0.003 (0.005)	0.006 (0.006)	<0.001
PDC (% of leukocytes)	0.05 (0.07)	0.077 (0.091)	<0.001
MDC/PDC sum	0.10 (0.13)		