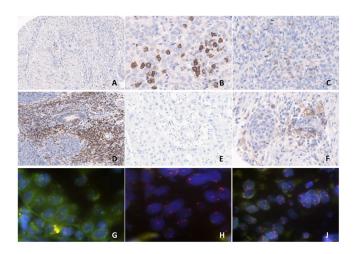
Increased intraepithelial CD3+ T-lymphocytes and high PD-L1 expression on tumor cells are associated with a favorable prognosis in esophageal squamous cell carcinoma and allow prognostic immunogenic subgrouping

Supplementary Material



Supplementary Figure 1: Low (**A**) and high rates (**B**) of overall TILs (CD3+); low (**C**) and high (**D**) CD8i count; (**E**) high PD1i count; (**F**) overall PD-L1+ TILs; PD-L1 copy number status showing an (**G**) amplification, (**H**) a deletion and a polysomy (**J**).

Supplementary Table 1: Rank-order correlations of overall TIL densities.

	High CD3	High CD3i	High CD8	High CD8i	High PD-1	High PD-1i	High PD-L1+ TILs	PD-L1 CNV	PD-L1 high (tumor)
High CD3									
	×	r=0.279	r=0.357	r=0.193	r=0.252	0.304	r=0.370	r=0.044	r=0.324
		p=0.002	p<0.001	p=0.031	p=0.006	p=0.001	p<0.001	p=0.567	p<0.001
111-1-CD0									
High CD8		r=0.417	x	r=0.551	r=0.321	r=0.442	r=0.261	r=-0.082	r=0.256
		p<0.001		p<0.001	p<0.001	p<0.001	p=0.004	p=0.046	p=0.004
High PD-1		0.262		0.226	×	r=0.793	r=0.307	r=0.108	r=0.118
		r=0.263 p=0.004		r=0.326 p<0.001	^	p<0.001	p=0.001	p=0.597	p=0.118
		p=0.004		p 10.001		F -7002	F -1002	, 100 <i>1</i>	ļ 3 -0

 $Supplementary\ Table\ 2:\ Multivariate\ analysis\ of\ the\ impact\ of\ CD3i\ /\ CD8i\ distribution\ and\ CD3i\ /\ PD-L1\ subgroups\ on\ disease\ specific-\ and\ disease\ free\ survival.$

		HR (DSS)	lower CI	Upper CI	p-value	HR (DFS)	lower CI	Upper CI	p-value
Age	per year	1,032	1,002	1,062	0,037	1,018	0,984	1,053	0,309
Gender	. , male	1,000		•	0,048	1,000	•	•	0,329
	female	0,496	0,247	0,995	5,5 .5	0,688	0,324	1,46	0,020
pΝ	-		0,247	0,555	0,059		0,324	1,40	0,103
	0	1,000	0.667	4.050	0,039	1,000	0.604	2 202	0,103
	1	1,143	0,667	1,959		1,261	0,694	2,292	
	2	0,419	0,11	1,592		0,731	0,237	2,256	
	3	6,059	1,245	29,479		6,287	1,255	31,503	
	1	1,000			<0,001	1,000			0,001
	2	4,009	2,156	7,458		4,157	2,09	8,266	
	3	2,228	1,054	4,708		2,194	0,978	4,924	
	4	7,244	0,709	74,005		censored	,	•	
	high	1,000	٥,, ٥٥	, ,,,,,	0,009	1,000			0.001
	low	2,238	1,225	4,09	0,005	3,44	1,667	7,099	0.001
		2,230	1,223	4,03			1,007	7,033	
		HR (DSS)	lower CI	Upper CI	p-value	HR (DFS)	lower CI	Upper Cl	p-value
Age	per year	1,033	1,002	1,065	0,035	1,022	0,986	1,058	0,234
Gender	male	1,000	1,002	1,000	0,033		0,300	1,000	0,063
Genuel		-	0.205	0.001	0,003	1,000	0.337	1 027	0,003
	female	0,405	0,205	0,801	0.045	0,496	0,237	1,037	
pΝ	0	1,000			0,048	1,000			0,05
	1	1,317	0,755	2,295		1,522	0,812	2,854	
	2	0,647	0,169	2,477		1,472	0,485	4,47	
	3	7,665	1,576	37,285		9,035	1,774	46,021	
рТ	1	1,000			<0,001	1,000			0,002
	2	3,938	2,098	7,392	-,	3,927	1,942	7,942	-,
	3	1,914	0,908	4,032		1,645	0,722	3,746	
							0,722	3,740	
	4	2,397	0,246	23,306		censored			
CD3I	high	1,000			0,045	1,000			0,004
	low	1,778	1,013	3,122		2,571	1,341	4,928	
		HR (DSS)	lower CI	Upper Cl	p-value	HR (DFS)	lower CI	Upper Cl	p-value
•					-				-
Age	per year	1,038	1,006	1,072	0,021	1,025	0,988	1,064	0,189
Gender	male	1,000			0,017	1,000			0,107
	female	0,435	0,219	0,862		0,545	0,261	1,14	
pΝ	0	1,000			0,054	1,000			0,049
	1	1,379	0,784	2,424		1,569	0,832	2,961	
	2	0,748	0,203	2,761		1,505	0,495	4,58	
	3	7,458	1,531	36,334		8,878	1,747	45,106	
рТ	1	-	1,331	30,334	0,002	-	1,747	43,100	0,006
		1,000			0,002	1,000			0,000
	2	1,893	0,898	3,988		3,431	1,714	6,871	
	3	3,517	1,868	6,622		1,689	0,746	3,826	
	4	3,492	0,392	31,14		censored			
CD3I	diffuse	1,000			0,005	1,000			0,009
Distribution	focal	2,267	1,273	4,035		2,348	1,237	4,458	
		HR (DSS)	lower CI	Upper CI	p-value	HR (DFS)	lower CI	Upper Cl	p-valu
								1,063	0,136
Age	per year	1,038	1,007	1,07	0,017	1,027	0,992	1,005	
	per year male		1,007	1,07	0,017 0,003	1,027 1,000	0,992	1,005	0,018
		1,038	1,007 0,172	1,07 0,694			0,992 0,186	0,853	0,018
Gender	male	1,038 1,000				1,000 0,399			
Gender	male female 0	1,038 1,000 0,345 1,000	0,172	0,694	0,003	1,000 0,399 1,000	0,186	0,853	
Gender	male female 0 1	1,038 1,000 0,345 1,000 1,221	0,172 0,71	0,694 2,099	0,003	1,000 0,399 1,000 1,325	0,186 0,725	0,853 2,422	
Gender	male female 0 1 2	1,038 1,000 0,345 1,000 1,221 0,633	0,172 0,71 0,165	0,694 2,099 2,423	0,003	1,000 0,399 1,000 1,325 1,358	0,186 0,725 0,452	0,853 2,422 4,08	
Gender pN	male female 0 1 2	1,038 1,000 0,345 1,000 1,221 0,633 6,875	0,172 0,71	0,694 2,099	0,003 0,076	1,000 0,399 1,000 1,325 1,358 7,712	0,186 0,725	0,853 2,422	0,090
Gender pN	male female 0 1 2 3	1,038 1,000 0,345 1,000 1,221 0,633 6,875 1,000	0,172 0,71 0,165 1,415	0,694 2,099 2,423 33,409	0,003	1,000 0,399 1,000 1,325 1,358 7,712 1,000	0,186 0,725 0,452 1,536	0,853 2,422 4,08 38,725	0,090
Gender pN	male female 0 1 2	1,038 1,000 0,345 1,000 1,221 0,633 6,875	0,172 0,71 0,165	0,694 2,099 2,423	0,003 0,076	1,000 0,399 1,000 1,325 1,358 7,712	0,186 0,725 0,452	0,853 2,422 4,08	0,090
Gender pN	male female 0 1 2 3	1,038 1,000 0,345 1,000 1,221 0,633 6,875 1,000	0,172 0,71 0,165 1,415	0,694 2,099 2,423 33,409	0,003 0,076	1,000 0,399 1,000 1,325 1,358 7,712 1,000	0,186 0,725 0,452 1,536	0,853 2,422 4,08 38,725	0,090
Gender pN	male female 0 1 2 3 1	1,038 1,000 0,345 1,000 1,221 0,633 6,875 1,000 3,902 2,061	0,172 0,71 0,165 1,415 2,097 0,981	0,694 2,099 2,423 33,409 7,264 4,332	0,003 0,076	1,000 0,399 1,000 1,325 1,358 7,712 1,000 4,09 1,959	0,186 0,725 0,452 1,536 2,051	0,853 2,422 4,08 38,725 8,154	0,090
Gender pN pT	male female 0 1 2 3 1 2 3	1,038 1,000 0,345 1,000 1,221 0,633 6,875 1,000 3,902 2,061 2,370	0,172 0,71 0,165 1,415 2,097	0,694 2,099 2,423 33,409 7,264	0,003 0,076 <0,001	1,000 0,399 1,000 1,325 1,358 7,712 1,000 4,09 1,959 censored	0,186 0,725 0,452 1,536 2,051	0,853 2,422 4,08 38,725 8,154	0,018 0,090 0,001
Age Gender pN pT CD8I Distribution	male female 0 1 2 3 1 2	1,038 1,000 0,345 1,000 1,221 0,633 6,875 1,000 3,902 2,061	0,172 0,71 0,165 1,415 2,097 0,981	0,694 2,099 2,423 33,409 7,264 4,332	0,003 0,076	1,000 0,399 1,000 1,325 1,358 7,712 1,000 4,09 1,959	0,186 0,725 0,452 1,536 2,051	0,853 2,422 4,08 38,725 8,154	0,090