

Table SI. Association between intraTANs located inside of cancerous tubes and hematological and systemic inflammatory response parameters in patients with colorectal cancer (n=160) before and after surgery. Certain data were not available for all patients.

Parameter	IntraTAN infiltration			
	Low, <10 cells/HPF	Moderate, 10-50 cells/HPF	High, >50 cells/HPF	P-value
WBC, cells/ $\mu$ l				
Before	34	53	29	0.475
After	43	48	29	0.330
Lymphocytes, cells/ $\mu$ l				
Before	52	79	41	0.275
After	50	88	47	0.046
Neutrophils, cells/ $\mu$ l				
Before	39	55	32	0.484
After	36	55	27	0.119
Eosinophils, cells/ $\mu$ l				
Before	23	12	15	0.489
After	36	33	22	0.245
Basophils, cells/ $\mu$ l				
Before	15	23	15	0.479
After	23	34	22	0.461
RBC, M/ $\mu$ l				
Before	13	17	9	0.610
After	16	33	14	0.492
HGB, g/dl				
Before	51	75	41	0.425
After	48	64	36	0.637
PLT, $1 \times 10^3$ / $\mu$ l				
Before	56	86	49	0.886
After	62	93	52	0.991
NLR-PLR status				
Before	13	23	16	0.182
After	39	59	32	0.416
PLT-NLR status				
Before	52	68	35	0.908
After	41	58	33	0.332
MLR				
Before	27	53	29	0.086
After	27	37	24	0.781
CEA, ng/ml				
Before	23	23	114	0.042
After	11	13	136	0.212
CA19-9, U/ml				
Before	17	31	122	0.707
After	7	21	132	0.518
Total protein, g/dl				
Before	40	57	30	0.154
After	6	13	7	0.550
Fibrinogen level, g/l				
Before	27	36	24	0.323
After	18	19	9	0.279

WBC, white blood cells; RBC, red blood cells; HGB, hemoglobin; PLT, platelet; CEA, carcinoembryonic antigen; CA19-9, carbohydrate antigen 19-9; MLR, monocyte-to-lymphocyte ratio; NLR, neutrophil-to-lymphocyte ratio; PLT, platelet-to-lymphocyte ratio; PLR, platelet-to-lymphocyte ratio; TANs, tumor-associated neutrophils.

Table SII. Association between stromal TANs and hematological, and systemic inflammatory response parameters in patients with colorectal cancer (n=160) before and after surgery. Certain data were not available for all patients.

Parameter	Stromal TANs in the centre of the tumor		
	Low	High	P-value
WBC, cells/ $\mu$ l			
Before	92	53	0.565
After	85	56	0.147
Lymphocytes, cells/ $\mu$ l			
Before	93	54	0.325
After	89	52	0.326
Neutrophils, cells/ $\mu$ l			
Before	91	56	0.480
After	85	55	0.063
Eosinophils, cells/ $\mu$ l			
Before	91	54	0.633
After	83	52	0.425
Basophils, cells/ $\mu$ l			
Before	91	52	0.773
After	54	50	0.771
RBC, (M/ $\mu$ l)			
Before	91	46	0.060
After	83	56	0.471
HGB, g/dl			
Before	91	52	0.931
After	85	48	0.150
PLT ( $1 \times 10^3$ / $\mu$ l)			
Before	103	54	0.871
After	85	56	0.538
NLR-PLR status			
Before	90	56	0.284
After	85	43	0.130
PLT-NLR status			

Before	93	58	0.625
After	85	53	0.120
MLR			
Before	90	52	0.656
After	83	56	0.432
CEA, ng/ml			
Before	43	26	0.277
After	48	28	0.365
CA19-9, U/ml			
Before	22	12	0.850
After	23	14	0.079
Total protein, g/dl			
Before	14	22	0.727
After	28	9	0.050
Fibrinogen level, g/l			
Before	83	54	0.107
After	26	39	0.838

WBC, white blood cells; RBC, red blood cells; HGB, hemoglobin; PLT, platelet; CEA, carcinoembryonic antigen; CA19-9, carbohydrate antigen 19-9; MLR, monocyte-to-lymphocyte ratio; PLT, platelet-to-lymphocyte ratio; NLR, neutrophil-to-lymphocyte ratio; PLR status, platelet-to-lymphocyte ratio; TANs, tumor-associated neutrophils.

Table SIII. Association between necrosis in tumor tissue and hematological, and systemic inflammatory response parameters in the blood from patients with colorectal cancer (n=160) before and after surgery. Certain data were not available for all patients.

Parameter	Necrosis		
	Low	High	P-value
WBC, cells/ $\mu$ l			
Before	102	55	0.961
After	96	51	0.030
Lymphocytes, cells/ $\mu$ l			
Before	103	53	0.693
After	96	51	0.304
Neutrophils, cells/ $\mu$ l			
Before	103	53	0.673
After	97	51	0.011
Eosinophils, cells/ $\mu$ l			
Before	101	52	0.453
After	95	51	0.263
Basophils, cells/ $\mu$ l			
Before	100	52	0.632
After	96	52	0.693
RBC, M/ $\mu$ l			
Before	103	53	0.401
After	95	51	0.625
HGB, g/dl			
Before	103	53	0.401
After	96	51	0.700
PLT, $1 \times 10^3$ / $\mu$ l			
Before	89	49	0.131
After	96	51	0.583
NLR-PLR status			
Before	102	52	0.223
After	96	51	0.038
PLT-NLR status			
Before	103	53	0.295
After	96	51	0.030
MLR			
Before	102	52	0.023
After	94	50	0.717
CEA, ng/ml			
Before	47	113	0.936
After	27	133	0.011
CA19-9, U/ml			
Before	29	131	0.092
After	25	135	0.160
Total protein, g/dl			
Before	12	10	0.482

After	30	15	0.825
Fibrinogen level, g/l			
Before	91	48	0.338
After	27	12	0.261

WBC, white blood cells; RBC, red blood cells; HGB, haemoglobin; PLT, platelet; CEA, carcinoembryonic antigen; CA19-9, carbohydrate antigen 19-9; MLR, monocyte-to-lymphocyte ratio; NLR, neutrophil-to-lymphocyte ratio; PLT, platelet-to-lymphocyte ratio; PLR, platelet-to-lymphocyte ratio.

Table SIV. Association between intraTANs, stromaTANs or necrosis and hematological and systemic inflammatory response parameters from the blood of patients with colorectal cancer (n=160) before and after surgery. Certain data were not available for all patients.

Parameter	Group number				P-value
	1	2	3	4	
WBC, cells/ $\mu$ l					
Before	24	29	40	51	0.382
After	21	29	38	51	0.096
Lymphocytes, cells/ $\mu$ l					
Before	24	29	45	51	0.769
After	21	29	38	50	0.081
Neutrophils, cells/ $\mu$ l					
Before	24	29	41	51	0.851
After	21	29	38	50	0.198
Eosinophils, cells/ $\mu$ l					
Before	24	28	40	51	0.758
After	21	29	37	50	0.632
Basophils, cells/ $\mu$ l					
Before	23	29	45	51	0.804
After	20	25	38	50	0.942
RBC, M/ $\mu$ l					
Before	24	29	53	50	0.088
After	21	29	38	51	0.643
HGB, g/dl					
Before	25	28	53	49	0.187
After	21	29	38	41	0.813
PLT, $1 \times 10^3$ / $\mu$ l					
Before	24	29	41	51	0.736
After	21	29	38	50	0.124
NLR-PLR status					
Before	24	29	50	51	0.559
After	21	29	38	49	0.159
PLT-NLR status					
Before	22	30	53	50	0.505
After	21	29	38	49	0.129
MLR					
Before	24	29	41	50	0.815
After	20	29	38	50	0.720
CEA, ng/ml					

Before	16	32	49	63	0.029
After	10	44	48	68	0.371
CA19-9, U/ml)					
Before	49	44	44	33	0.404
After	15	25	69	55	0.371
Total protein, g/dl					
Before	3	6	4	8	0.375
After	9	9	13	14	0.388
Fibrinogen level, g/l					
Before	23	28	34	50	0.825
After	21	29	38	51	0.858

Group 1, low intraTANs, stromaTANs and necrosis; Group 2, low intraTANs, and high stromaTANs and necrosis); Group 3, high intraTANs, and low stromaTANs and necrosis; Group 4, high intraTANs, stromaTANs and necrosis; WBC, white blood cells; RBC, red blood cells; HGB, hemoglobin; PLT, platelet; CEA, carcinoembryonic antigen; CA19-9, carbohydrate antigen 19-9; MLR, monocyte-to-lymphocyte ratio; NLR, neutrophil-to-lymphocyte ratio; PLT, platelet-to-lymphocyte ratio; PLR, platelet-to-lymphocyte ratio; TANs, tumor-associated neutrophils.