

Table 1. Subgroup analysis and meta analysis of 8 indicators in OS, CSS, and DFS.

	OS				CSS				DFS					
	N	HR(95% CI), P	I ² (%), P	Begg's P, Egger's P	N	HR(95% CI), P	I ² (%), P	Begg's P, Egger's P	P-reg	N	HR(95% CI), P	I ² (%), P	Begg's P, Egger's P	P-reg
PNI														
Overall	11	1.51(1.36-1.68), <0.001	45.8, 0.048	0.036, 0.188										
Country														
China	4	1.45(1.27-1.64), <0.001	36.9, 0.190	0.497, 0.092										
Non-China	7	1.82(1.38-2.40), <0.001	51.4, 0.054	0.099, 0.006	0.184									
Sample size														
<255	7	1.69(1.19-2.40), 0.003	66.8, 0.006	0.099, 0.058										
≥255	4	1.52(1.34-1.72), <0.001	0.0, 0.949	0.174, 0.052	0.797									
Cut-off value														
<46	5	1.68(1.13-2.50), 0.010	59.5, 0.043	0.050, 0.432										
≥46	6	1.49(1.33-1.67), <0.001	39.9, 0.139	0.348, 0.288	0.774									
Treatment														
Surgery	7	1.46(1.20-1.78), <0.001	54.4, 0.041	0.752, 0.293	Ref									
Mixed	3	2.18(1.52-3.11), <0.001	0.0, 0.649	0.602, 0.448	0.139									
NR	1	1.50(1.16-1.93), NR	NR	NR	0.906									
Pathology														
SCC	9	1.56(1.39-1.76), <0.001	41.5, 0.091	0.061, 0.184	0.144									
Mixed	1	1.67(1.14-2.44), NR	NR	NR	0.231									
NR	1	1.09(0.80-1.49), NR	NR	NR	Ref									
Clinical stage														
0-III	5	1.62(1.41-1.86), <0.001	32.2, 0.207	0.050, <0.001										
0-IV	6	1.41(1.10-1.80), 0.006	52.4, 0.062	0.348, 0.687	0.229									
Follow-up														
<36	4	1.46(1.15-1.86), 0.002	53.4, 0.092	1.000, 0.523	0.962									
≥36	4	1.45(1.23-1.70), <0.001	46.1, 0.135	1.000, 0.801	Ref									
NR	3	2.26(1.63-3.14), <0.001	0.0, 0.988	0.602, 0.337	0.014									
Age														
<63.4	4	1.45(1.27-1.64), <0.001	36.9, 0.190	0.497, 0.092	Ref									
≥63.4	6	1.77(1.31-2.41), <0.001	55.0, 0.049	0.039, 0.016	0.270									
NR	1	2.21(1.28-3.82), NR	NR	NR	0.249									
Sex ratio														

≥5.12	17	1.52(1.27-1.81), <0.001	62.8, <0.001	0.021, 0.286		1	1.59(1.13-2.24), NR	NR	NR	1	2.76(1.50-5.03), NR	NR	NR	
PLR														
Overall	19	1.26(1.18-1.35), <0.001	29.8, 0.108	0.054, 0.108						5	1.30(1.12-1.51), <0.001	33.0, 0.202	0.142, 0.472	
Country														
China	15	1.26(1.17-1.35), <0.001	42.1, 0.043	0.125, 0.121	0.571					5	1.30(1.12-1.51), <0.001	33.0, 0.202	0.142, 0.472	NR
Non-China	4	1.40(1.07-1.83), 0.016	0.0, 0.854	1.000, 0.771						NR	NR	NR	NR	
Sample size														
<303	10	1.38(1.18-1.62), <0.001	25.5, 0.209	0.245, 0.157	0.341					2	0.99(0.71-1.39), 0.958	0.0, 0.682	0.602, 0.463	0.174
≥303	9	1.24(1.15-1.34), <0.001	33.7, 0.148	0.297, 0.206						3	1.39(1.18-1.64), <0.001	24.5, 0.266	NR	
Cut-off value														
<143	10	1.24(1.14-1.35), <0.001	11.7, 0.335	0.006, 0.001	0.567					3	1.39(1.18-1.64), <0.001	24.5, 0.266	NR	0.174
≥143	9	1.33(1.17-1.52), <0.001	44.7, 0.071	1.000, 0.858						2	0.99(0.71-1.39), 0.958	0.0, 0.682	0.602, 0.463	
Treatment														
Surgery	15	1.24(1.16-1.33), <0.001	24.2, 0.186	0.458, 0.553	0.079					5	1.30(1.12-1.51), <0.001	33.0, 0.202	0.142, 0.472	NR
Mixed	4	1.61(1.26-2.06), <0.001	1.6, 0.384	0.174, 0.086						NR	NR	NR	NR	
Pathology														
SCC	17	1.27(1.19-1.37), <0.001	33.2, 0.091	0.070, 0.122	0.432					5	1.30(1.12-1.51), <0.001	33.0, 0.202	0.142, 0.472	
Mixed	1	1.55(0.95-2.59), NR	NR	NR	0.356					NR	NR	NR	NR	NR
NR	1	1.12(0.87-1.43), NR	NR	NR	Ref					NR	NR	NR	NR	
Clinical stage														
0-III	15	1.27(1.18-1.36), <0.001	34.7, 0.091	0.033, 0.039	0.733					4	1.34(1.15-1.57), <0.001	37.6, 0.187	0.497, 0.709	0.461
0-IV	4	1.21(0.94-1.57), 0.139	24.5, 0.265	0.497, 0.205						1	1.05(0.69-1.60), NR	NR	NR	
Follow-up														
<39	4	1.17(1.01-1.36), 0.041	18.8, 0.296	0.497, 0.311	Ref					1	1.05(0.69-1.60), NR	NR	NR	0.461
≥39	8	1.19(1.09-1.30), <0.001	0.0, 0.974	0.458, 0.520	0.855					4	1.34(1.15-1.57), <0.001	37.6, 0.187	0.497, 0.709	
NR	7	1.71(1.46-2.02), <0.001	0.0, 0.682	0.293, 0.441	0.004					NR	NR	NR	NR	
Age														
<61.2	12	1.26(1.17-1.35), <0.001	41.5, 0.065	0.100, 0.097	Ref					4	1.34(1.15-1.57), <0.001	37.6, 0.187	0.497, 0.709	0.461
≥61.2	6	1.33(1.10-1.61), 0.003	21.9, 0.269	0.348, 0.470	0.698					1	1.05(0.69-1.60), NR	NR	NR	
NR	1	1.27(0.76-2.12), NR	NR	NR	0.994					NR	NR	NR	NR	
Sex ratio														
<4.55	8	1.22(1.12-1.33), <0.001	0.0, 0.863	1.000, 0.810	0.265					4	1.34(1.15-1.57), <0.001	37.6, 0.187	0.497, 0.709	0.461
≥4.55	11	1.41(1.17-1.69), <0.001	51.4, 0.024	0.102, 0.213						1	1.05(0.69-1.60), NR	NR	NR	
LMR														
Overall	13	1.37(1.14-1.65), 0.001	84.9, <0.001	0.028, 0.167						6	1.08(0.85-1.39), 0.522	79.8, <0.001	0.573, 0.838	

Country											
China	12	1.35(1.11-1.63), 0.002	85.7, <0.001	0.028, 0.229			6	1.08(0.85-1.39), 0.522	79.8, <0.001	0.573, 0.838	NR
Non-China	1	1.87(1.09-3.23), NR	NR	NR	0.525		NR	NR	NR	NR	
Sample size											
<280	7	1.86(1.36-2.55), <0.001	75.4, <0.001	0.881, 0.609			3	1.44(1.19-1.76), <0.001	0.0, 0.686	0.117, 0.290	0.085
≥280	6	1.09(0.97-1.22), 0.168	54.1, 0.053	0.348, 0.357	0.006		3	0.81(0.54-1.20), 0.296	87.0, <0.001	0.117, 0.013	
Cut-off value											
<3.57	6	1.65(1.11-2.47), 0.014	91.1, <0.001	0.851, 0.191			4	1.18(1.08-1.29), <0.001	49.5, 0.115	0.042, 0.025	0.034
≥3.57	7	1.17(0.97-1.42), 0.110	71.1, 0.002	0.293, 0.627	0.174		2	0.65(0.38-1.11), 0.116	73.7, 0.051	NR	
Treatment											
Surgery	9	1.20(1.02-1.41), 0.033	62.2, 0.007	0.144, 0.496	Ref		4	1.00(0.61-1.62), 0.984	86.3, <0.001	1.000, 0.995	
CCRT	1	3.60(2.66-4.88), NR	NR	NR	0.006		NR	NR	NR	NR	0.651
Mixed	3	1.36(1.01-1.83), 0.045	73.1, 0.024	0.117, 0.179	0.539		2	1.14(1.04-1.25), 0.005	12.4, 0.285	NR	
Pathology											
SCC	13	1.37(1.14-1.65), 0.001	84.9, <0.001	0.028, 0.167			6	1.08(0.85-1.39), 0.522	79.8, <0.001	0.573, 0.838	NR
Mixed	NR	NR	NR	NR	NR		NR	NR	NR	NR	
Clinical stage											
0-III	11	1.46(1.20-1.77), <0.001	84.7, <0.001	0.010, 0.055			4	1.15(0.92-1.45), 0.219	73.5, 0.010	0.174, 0.779	0.484
0-IV	2	0.93(0.39-2.21), 0.875	90.2, 0.001	0.317, NR	0.176		2	0.84(0.28-2.54), 0.754	92.2, <0.001	0.317, NR	
Follow-up											
<39	4	1.67(0.77-3.65), 0.198	94.3, <0.001	1.000, 0.505	0.429		2	0.89(0.26-3.02), 0.848	93.5, <0.001	0.317, NR	Ref
≥39	7	1.20(1.09-1.32), <0.001	0.0, 0.524	0.004, 0.002	0.891		3	1.15(0.79-1.66), 0.466	78.2, 0.010	0.117, 0.295	0.661
NR	2	1.12(1.02-1.23), 0.014	0.0, 0.515	0.317, NR	Ref		1	1.12(1.02-1.24), NR	NR	NR	0.767
Age											
<61.5	7	1.16(1.08-1.24), <0.001	12.9, 0.331	0.024, 0.044	Ref		4	1.17(0.92-1.50), 0.208	75.0, 0.007	0.174, 0.723	0.104
≥61.5	4	1.59(0.67-3.93), 0.312	94.3, <0.001	0.497, 0.692	0.373		1	0.47(0.28-0.78), NR	NR	NR	Ref
NR	2	1.46(1.12-1.90), 0.005	5.1, 0.305	0.317, NR	0.544		1	1.33(0.99-1.79), NR	NR	NR	0.119
Sex ratio											
<4.32	7	1.21(1.10-1.33), <0.001	21.5, 0.266	0.004, 0.005			3	1.15(0.79-1.66), 0.466	78.2, 0.010	0.117, 0.295	0.708
≥4.32	6	1.50(0.91-2.46), 0.109	93.1, <0.001	0.851, 0.462	0.575		3	0.99(0.60-1.65), 0.969	87.1, <0.001	0.602, 0.808	
SH											
Overall	7	1.46(1.30-1.65), <0.001	41.0, 0.118	0.099, 0.113							
Country											
China	6	1.53(1.27-1.85), <0.001	50.5, 0.073	0.091, 0.082							0.890
Non-China	1	1.65(0.74-3.96), NR	NR	NR							

Sample size														
<298	3	2.31(1.61-3.33), <0.001	0.0, 0.655	0.602, 0.400										
≥298	4	1.38(1.22-1.57), <0.001	0.0, 0.481	0.497, 0.490	0.047									
Cut-off value														
<410	3	1.31(1.11-1.54), 0.001	0.0, 0.372	0.117, 0.052										
≥410	4	1.67(1.40-1.99), <0.001	30.6, 0.229	0.497, 0.595	0.140									
Treatment														
Surgery	6	1.45(1.28-1.64), <0.001	45.0, 0.106	0.188, 0.204										
CRT	1	2.29(0.98-5.30), NR	NR	NR	0.428									
Pathology														
SCC	6	1.53(1.27-1.85), <0.001	50.5, 0.073	0.091, 0.082										
Mixed	1	1.65(0.74-3.96), NR	NR	NR	0.890									
Clinical stage														
0-III	5	1.40(1.23-1.59), <0.001	0.0, 0.435	0.327, 0.181										
0-IV	2	2.32(1.55-3.48), <0.001	0.0, 0.358	0.317, NR	0.068									
Follow-up														
<36	1	2.29(0.98-5.30), NR	NR	NR	0.469									
≥36	4	1.54(1.20-1.96), 0.001	66.6, 0.029	0.174, 0.098	0.908									
NR	2	1.46(1.08-1.98), 0.013	0.0, 0.771	0.317, NR	Ref									
Age														
<63.0	3	1.37(1.19-1.58), <0.001	16.6, 0.301	0.602, 0.607	Ref									
≥63.0	2	2.32(1.55-3.48), <0.001	0.0, 0.358	0.317, NR	0.084									
NR	2	1.53(1.13-2.06), 0.006	0.0, 0.319	0.317, NR	0.580									
Sex ratio														
<4.55	3	1.40(1.20-1.64), <0.001	46.1, 0.156	0.602, 0.475										
≥4.55	4	1.55(1.29-1.87), <0.001	48.0, 0.123	0.174, 0.468	0.646									
GPS														
Overall	15	2.35(1.99-2.76), <0.001	36.5, 0.078	0.729, 0.838		5	1.64(1.33-1.94), <0.001	45.5, 0.119	0.624, 0.905		5	2.44(1.28-4.67), 0.007	57.5, 0.052	1.000, 0.751
Country														
China	4	2.23(1.57-3.17), <0.001	7.5, 0.356	0.497, 0.323		4	1.66(1.48-1.87), <0.001	47.4, 0.812	0.734, 0.432	0.246	1	2.75(0.37-20.31), NR	NR	NR
Non-China	11	2.38(1.98-2.86), <0.001	46.5, 0.044	0.484, 0.699	0.952	1	2.53(1.49-4.28), NR	NR	NR		4	2.43(1.17-5.06), 0.017	68.0, 0.025	0.497, 0.781
Sample size														
<237	9	2.47(1.98-3.07), <0.001	48.5, 0.050	0.835, 0.944		1	2.53(1.49-4.28), NR	NR	NR	0.246	3	3.11(2.03-4.78), <0.001	0.0, 0.399	0.602, 0.499
≥237	6	2.21(1.73-2.82), <0.001	17.5, 0.300	0.851, 0.814	0.653	4	1.66(1.48-1.87), <0.001	47.4, 0.812	0.734, 0.432		2	1.06(0.53-2.14), 0.867	0.0, 0.320	NR
Cut-off value														

1-2 VS 0	7	2.49(1.95-3.18), <0.001	39.0, 0.132	0.293, 0.232	0.821	2	1.48(1.25-1.77), <0.001	0.0, 0.801	NR	0.169	1	4.92(2.12-11.64), NR	NR	NR	0.303
2 VS 0	8	2.24(1.80-2.78), <0.001	40.6, 0.108	0.805, 0.553		3	1.89(1.62-2.22), <0.001	42.5, 0.829	1.000, 0.861		4	1.95(1.30-2.93), 0.001	47.5, 0.126	0.497, 0.866	
Treatment															
Surgery	8	2.16(1.73-2.70), <0.001	52.2, 0.041	0.621, 0.575	Ref	5	1.64(1.33-1.94), <0.001	45.5, 0.119	0.624, 0.905		2	1.06(0.53-2.14), 0.867	0.0, 0.320	0.317, NR	Ref
CRT	2	2.81(1.37-5.76), 0.005	76.1, 0.041	NR	0.449	NR	NR	NR	NR	NR	1	2.53(1.49-4.28), NR	NR	NR	0.192
Mixed	5	2.42(1.73-3.73), <0.001	0.0, 0.786	0.624, 0.364	0.730	NR	NR	NR	NR		2	4.72(2.24-9.95), <0.001	0.0, 0.843	NR	0.104
Pathology															
SCC	5	2.17(1.59-2.96), <0.001	40.6, 0.151	0.624, 0.620	0.706	5	1.64(1.33-1.94), <0.001	45.5, 0.119	0.624, 0.905		2	2.54(1.53-4.23), <0.001	0.0, 0.936	NR	0.945
Mixed	8	2.65(2.12-3.31), <0.001	44.3, 0.083	0.621, 0.847	0.342	NR	NR	NR	NR	NR	3	2.50(0.74-8.47), 0.141	78.1, 0.010	0.602, 0.680	
NR	2	1.89(1.31-2.74), 0.001	0.0, 0.786	NR	Ref	NR	NR	NR	NR		NR	NR	NR	NR	
Clinical stage															
0-III	4	2.16(1.63-2.85), <0.001	0.0, 0.511	0.174, 0.201	0.741	4	1.66(1.48-1.87), <0.001	47.4, 0.812	0.734, 0.432	0.246	NR	NR	NR	NR	NR
0-IV	11	2.45(2.00-3.00), <0.001	47.9, 0.038	0.938, 0.933		1	2.53(1.49-4.28), NR	NR	NR		5	2.44(1.28-4.67), 0.007	57.5, 0.052	1.000, 0.751	
Follow-up															
<40	5	3.30(2.16-5.05), <0.001	16.0, 0.312	0.624, 0.701	0.027	1	1.63(1.16-2.29), NR	NR	NR	0.567	2	4.72(2.24-9.95), <0.001	0.0, 0.843	NR	0.104
≥40	4	1.56(1.11-2.20), 0.011	21.0, 0.284	0.497, 0.860	Ref	3	1.73(1.53-1.97), <0.001	69.2, 0.889	1.000, 0.731	0.416	2	1.06(0.53-2.14), 0.867	0.0, 0.320	0.317, NR	Ref
NR	6	2.51(2.04-3.08), <0.001	3.8, 0.392	0.851, 0.847	0.052	1	1.18(0.64-2.17), NR	NR	NR	Ref	1	2.53(1.49-4.28), NR	NR	NR	0.192
Age															
<62.1	5	2.15(1.66-2.78), <0.001	0.0, 0.490	0.050, 0.074	0.821	4	1.72(1.53-1.94), <0.001	54.6, 0.831	1.000, 0.720		1	2.75(0.37-20.31), NR	NR	NR	0.931
≥62.1	8	2.46(1.65-3.68), <0.001	59.6, 0.015	0.805, 0.690	0.632	NR	NR	NR	NR	0.369	4	2.43(1.17-5.06), 0.017	68.0, 0.025	0.497, 0.781	
NR	2	2.03(1.15-3.58), 0.014	0.0, 0.972	0.317, NR	Ref	1	1.18(0.64-2.17), NR	NR	NR		NR	NR	NR	NR	
Sex ratio															
<5.48	8	2.51(1.70-3.70), <0.001	51.9, 0.042	0.322, 0.602	0.690	1	1.63(1.16-2.29), NR	NR	NR	0.893	3	2.23(0.64-7.81), 0.211	76.3, 0.015	0.602, 0.826	0.724
≥5.48	7	2.25(1.80-2.82), <0.001	17.0, 0.300	0.881, 0.572		4	1.71(1.51-1.93), <0.001	62.3, 0.852	0.734, 0.954		2	2.66(1.62-4.37), <0.001	0.0, 0.560	0.317, NR	
mGPS															
Overall	14	1.69(1.49-1.92), <0.001	48.4, 0.022	0.702, 0.354											
Country															
China	8	1.90(1.47-2.46), <0.001	63.2, 0.008	0.083, 0.107	0.370										
Non-China	6	1.52(1.12-2.06), 0.007	10.9, 0.346	0.348, 0.795											
Sample size															
<212	6	2.50(1.91-3.28), <0.001	0.0, 0.652	0.348, 0.249	0.014										
≥212	8	1.52(1.31-1.75), <0.001	40.1, 0.111	0.805, 0.893											
Cut-off value															
1-2 VS 0	9	1.56(1.35-1.81), <0.001	4.7, 0.077	1.000, 0.736	0.092										
2 VS 0	5	2.23(1.70-2.92), <0.001	31.5, 0.212	0.624, 0.943											

Treatment						
Surgery	8	1.40(1.17-1.68), <0.001	31.2, 0.179	0.805, 0.577	Ref	
RT	2	2.12(1.26-3.57), 0.005	73.3, 0.053	NR		0.138
Mixed	4	2.56(1.81-3.62), <0.001	0.0, 0.824	1.000, 0.888		0.030
Pathology						
SCC	11	1.88(1.48-2.40), <0.001	56.7, 0.010	0.815, 0.222		0.383
AD	1	1.24(0.69-2.22), NR	NR	NR		0.932
Mixed	1	1.17(0.53-2.60), NR	NR	NR		Ref
NR	1	1.82(1.17-2.83), NR	NR	NR		0.502
Clinical stage						
0-III	9	1.64(1.26-2.13), <0.001	50.9, 0.038	0.532, 0.227		0.314
0-IV	5	1.89(1.56-2.28), <0.001	38.7, 0.163	1.000, 0.475		
Follow-up						
<39	4	1.56(1.28-1.91), <0.001	0.0, 0.533	0.497, 0.066		Ref
≥39	6	1.64(1.18-2.26), 0.003	54.2, 0.053	0.188, 0.166		0.714
NR	4	2.66(1.98-3.59), <0.001	0.0, 0.783	0.497, 0.550		0.026
Age						
<61.7	8	1.90(1.47-2.46), <0.001	63.2, 0.008	0.083, 0.107		0.370
≥61.7	6	1.52(1.12-2.06), 0.007	10.9, 0.346	0.348, 0.795		
Sex ratio						
<4.91	7	1.77(1.32-2.38), <0.001	64.0, 0.011	0.652, 0.409		0.930
≥4.91	7	1.81(1.44-2.29), <0.001	25.4, 0.235	0.652, 0.680		
CAR						
Overall	10	1.84(1.60-2.10), <0.001	41.8, 0.079	0.531, 0.809		
Country						
China	5	1.90(1.50-2.41), <0.001	55.1, 0.063	1.000, 0.692		0.415
Non-China	4	1.58(1.13-2.20), 0.008	40.9, 0.166	0.497, 0.377		Ref
NR	1	2.46(1.18-5.13), NR	NR	NR		0.360
Sample size						
<283	5	2.06(1.59-2.66), <0.001	0.0, 0.585	0.142, 0.143		0.396
≥283	4	1.71(1.26-2.31), 0.001	65.4, 0.021	0.174, 0.411		Ref
NR	1	2.46(1.18-5.13), NR	NR	NR		0.406
Cut-off value						
<0.13	4	1.63(1.35-1.96), <0.001	0.0, 0.443	0.174, 0.185		0.490
≥0.13	5	2.19(1.78-2.69), <0.001	43.2, 0.133	0.142, 0.271		0.230

NR	1	1.15(0.56-2.70), NR	NR	NR	NR	Ref
Treatment						
Surgery	4	1.79(1.28-2.50), 0.001	62.4, 0.047	0.497, 0.432		0.963
RT	1	2.46(1.18-5.13), NR	NR	NR		0.516
Mixed	5	1.71(1.39-2.11), <0.001	36.8, 0.176	1.000, 0.632		Ref
Pathology						
SCC	6	1.70(1.44-2.01), <0.001	21.2, 0.274	0.851, 0.586		0.535
Mixed	2	1.38(0.63-3.03), 0.427	67.2, 0.081	NR		Ref
NR	2	2.44(1.86-3.20), <0.001	0.0, 0.981	NR		0.134
Clinical stage						
0-III	5	2.01(1.69-2.39), <0.001	33.5, 0.198	0.624, 0.603		0.230
0-IV	4	1.50(1.19-1.90), 0.001	39.4, 0.175	1.000, 0.791		Ref
NR	1	2.46(1.18-5.13), NR	NR	NR		0.332
Follow-up						
<40	2	1.53(1.25-1.89), <0.001	0.0, 0.390	0.317, NR		Ref
≥40	2	1.56(0.58-4.16), 0.377	84.7, 0.010	0.317, NR		0.405
NR	6	2.10(1.65-2.68), 0.001	0.0, 0.693	0.348, 0.261		0.213
Age						
<62.2	5	1.90(1.50-2.41), <0.001	55.1, 0.063	1.000, 0.692		0.415
≥62.2	4	1.58(1.13-2.20), 0.008	40.9, 0.166	0.497, 0.377		Ref
NR	1	2.46(1.18-5.13), NR	NR	NR		0.360
Sex ratio						
<5.5	4	1.53(1.26-1.85), <0.001	32.8, 0.216	0.497, 0.875		Ref
≥5.5	5	2.21(1.81-2.70), <0.001	0.0, 0.471	0.014, 0.048		0.045
NR	1	2.46(1.18-5.13), NR	NR	NR		0.285

Abbreviations: OS, overall survival; CSS, cancer-specific survival; DFS, disease-free survival; EC, esophageal carcinoma; NLR, neutrophil-to-lymphocyte ratio; PLR, platelet-to-lymphocyte ratio; LMR, lymphocyte-to-monocyte ratio; CAR, c-reactive protein-to-albumin ratio; SII, systemic inflammation index; PNI, prognostic nutritional index; GPS, Glasgow Prognostic Score; mGPS, modified Glasgow Prognostic Score; Ref, reference; P-reg, the P-value of meta regression; NR, not reported.