

Table S1. Clinicopathological characteristics of 7 patients diagnosed as oligometastasis.

Sex	Age, years	Disease	Other metastasis	Site and size of LIM, cm	First-line scheme	HIFU (+/-)	Evaluation of first-line treatment	PFS, months	OS, months
Male	81	NSCLC	CMLN	RL, 0.9x1.2	Tislelizumab	-	PR	23.53	24.36
Male	73	EC	CMLN, PALN	CL, 3.6x1.8	Cisplatin+S1+Camrelizumab	-	SD	10.23	Continued follow-up
Female	69	GC	PALN	RL, 1.5x1.2; LL, 1.1x0.9	Capecitabine+Oxaliplatin+Sintilimab	-	SD	4.13	Continued follow-up
Male	68	GC	PALN	RL, 1.4x1.2, 3.2x2.3	Capecitabine+Oxaliplatin+Sintilimab	+	CR	20.00	Continued follow-up
Male	60	GC	N0	RL, 2; LL, 1 and all < 1	S1+Oxaliplatin+Sintilimab	+	SD	7.43	Continued follow-up
Female	56	GC	N0	CL, 2.0x2.0	Capecitabine+Oxaliplatin+Sintilimab	-	SD	6.37	13.77
Male	54	EC	N0	RL, 1.5x1.2; 1.1x0.9	Cisplatin+S1+Camrelizumab	-	PR	4.37	5.20

LIM, liver metastases; LL, left lobe; RL, right lobe; CL, caudate lobe; GC, gastric carcinoma; EC, esophageal carcinoma; HIFU, high-intensity focused ultrasound thermal ablation; NSCLC, no-small cell lung cancer; LN, lymph node; PALN, para-aortic lymph node; LGS, hepato-gastric space; CMLN, contralateral mediastinal lymph node; PR, partial response; SD, stable disease; PFS, progression-free survival; OS, overall survival.

Table III. Metastatic sites and liver metastasis details of 94 patients with liver metastasis who accepted first-line systemic therapy including immune checkpoint inhibitors.

No	Sex	Age, years	Diagnosis	Metastatic sites except liver				Number of liver metastases	Size of the largest liver nodules, cm
				Bra n	Lun g	Bone	Other site		
1	Male	81	Lung carcinoma	No	No	No	Yes	2	3.1x3.3
2	Male	79	Esophageal carcinoma	No	Yes	No	Yes	Too many to count	9.8x9.7
3	Female	77	Urothelial carcinoma	No	Yes	No	Yes	8	4.2x2.8
4	Female	76	Gastric carcinoma	No	No	No	Yes	4	1.3x1.2
5	Female	76	Gastric carcinoma	No	No	No	Yes	2	3.6x2.4
6	Male	76	Lung carcinoma	No	Yes	Yes	Yes	2	6.8x5.0
7	Male	76	Lung carcinoma	No	Yes	No	No	Too many to count	6.1x3.8
8	Male	75	Cholangiocarcinoma	No	Yes	No	Yes	5	3.4x2.6
9	Male	74	Esophageal carcinoma	No	No	Yes	Yes	Too many to count	4.6x4.0
10	Male	73	Esophageal carcinoma	No	No	No	Yes	1	2.5x2.4
11	Male	73	Lung carcinoma	No	Yes	Yes	Yes	1	6.3x5.0
12	Female	73	Esophageal carcinoma	No	Yes	Yes	Yes	1	2.1x1.3
13	Male	73	Gastric carcinoma	No	Yes	No	Yes	11	3.1x3.0
14	Male	72	Lung carcinoma	No	No	No	Yes	Too many to count	2.3x2.0
15	Male	71	Gastric carcinoma	No	Yes	No	Yes	6	2.2x2.1
16	Female	71	Gastric carcinoma	No	No	No	Yes	3	1.3x1.0
17	Male	71	Lung carcinoma	No	No	No	Yes	13	3.5x2.4
18	Male	71	Gastric carcinoma	No	Yes	No	Yes	11	2.8x2.5
19	Male	70	Cholangiocarcinoma	No	No	No	Yes	1	7.5x4.7

20	Female	70	Gastric carcinoma	No	No	No	Yes	5	0.9x0.8
21	Female	70	Gastric carcinoma	No	Yes	Yes	Yes	4	3.1x2.8
22	Male	70	Pancreatic carcinoma	No	No	Yes	Yes	Too many to count	1.3x1.1
23	Female	69	Gastric carcinoma	No	Yes	No	Yes	3	1.5x1.2
24	Male	69	Lung carcinoma	No	No	No	Yes	3	2.4x1.5
25	Male	69	Gastric carcinoma	No	No	Yes	Yes	6	1.0x1.0
26	Male	69	Cholangiocarcinoma	No	Yes	Yes	Yes	2	7.9x8.4
27	Male	68	Esophageal carcinoma	Yes	Yes	No	Yes	1	2.2x1.3
28	Male	68	Gallbladder carcinoma	No	Yes	No	Yes	2	0.8x0.7
29	Male	68	Gastric carcinoma	No	No	No	Yes	3	2.9x2.3
30	Male	68	Gastric carcinoma	No	Yes	No	Yes	2	13.4x7.9
31	Male	67	Esophageal carcinoma	No	No	Yes	Yes	5	2.8x2.8
32	Male	67	Gastric carcinoma	No	No	No	Yes	Diffused,unclear-boundaries, hard to count	1.6x1.5
33	Female	66	Gastric carcinoma	No	No	Yes	Yes	2	0.7x0.6
34	Female	66	Cholangiocarcinoma	No	No	Yes	Yes	2	6.0x4.7
35	Male	66	Esophageal carcinoma	No	Yes	No	No	1	1.3x1.0
36	Male	66	Lung carcinoma	No	Yes	No	Yes	13	2.6x2.1
37	Male	66	Lung carcinoma	No	Yes	Yes	Yes	10	2.2x1.6
38	Male	65	Lung carcinoma	No	Yes	No	Yes	1	5.8x5.5
39	Female	65	Gastric carcinoma	No	Yes	Yes	Yes	Diffused, some fused, hard to count	5.0x4.1
40	Male	65	Gastric carcinoma	No	No	Yes	Yes	4	6.9x5.4
41	Male	63	Gastric carcinoma	No	No	No	Yes	21	1.4x1.4

42	Male	63	Gastric carcinoma	No	No	Yes	Yes	1	2.7x2.0
43	Female	63	Pancreatic carcinoma	No	Yes	No	Yes	4	0.9x0.9
44	Male	63	Gastric carcinoma	No	No	Yes	Yes	2	0.7x0.6
45	Male	61	Lung carcinoma	No	Yes	No	Yes	3	1.1x0.9
46	Female	61	Lung carcinoma	No	Yes	Yes	Yes	6	3.1x2.7
47	Male	60	Lung carcinoma	No	Yes	No	Yes	1	2.1x1.6
48	Male	60	Esophageal carcinoma	No	No	No	Yes	Diffused, some fused, difficult to count	6.7x5.4
49	Male	60	Gastric carcinoma	No	No	No	Yes	13	2.0x1.4
50	Male	60	Esophageal carcinoma	No	Yes	Yes	Yes	4	1.9x1.7
51	Male	60	Gastric carcinoma	No	No	No	Yes	5	1.8x1.3
52	Male	59	Gastric carcinoma	No	No	Yes	Yes	29	5.7x4.8
53	Male	58	Lung carcinoma	No	Yes	Yes	Yes	1	12.1x9.2
54	Male	58	Esophageal carcinoma	No	Yes	Yes	Yes	7	16.3x15.3
55	Female	58	Ovarian cancer	Yes	Yes	Yes	Yes	1	5.7x5.5
56	Female	57	Gastric carcinoma	No	Yes	No	Yes	6	5.5x5.3
57	Female	57	Cholangiocarcinoma	No	Yes	No	No	Diffused, some fused, hard to count	7.0x3.7
58	Female	57	Lung carcinoma	Yes	Yes	Yes	Yes	10	2.8x2.5
59	Male	56	Gastric carcinoma	Yes	Yes	No	Yes	5	3.6x3.5
60	Male	56	Lung carcinoma	Yes	Yes	Yes	Yes	8	2.0x1.9
61	Female	56	Lung carcinoma	No	Yes	Yes	Yes	5	2.0x2.1
62	Female	56	Gastric carcinoma	No	No	No	No	2	4.2x3.1
63	Male	56	Lung carcinoma	Yes	No	No	Yes	8	3.6x2.1

64	Male	56	Gastric carcinoma	No	Yes	No	No	9	3.3x2.7
65	Male	56	Lung carcinoma	No	Yes	Yes	Yes	1	3.5x3.1
66	Female	55	Gastric carcinoma	No	No	No	Yes	2	1.0x0.8
67	Male	55	Pancreatic carcinoma	No	No	No	Yes	>30, some fused	6.9x5.0
68	Male	55	Gastric carcinoma	No	No	No	Yes	7	2.9x2.0
69	Male	55	Lung carcinoma	No	No	Yes	Yes	8, some fused	7.7x6.8
70	Male	54	Lung carcinoma	No	Yes	Yes	No	5	5.9x4.1
71	Male	54	Gastric carcinoma	No	Yes	Yes	Yes	Diffuse, difficult to count	5.0x4.1
72	Male	54	Esophageal carcinoma	No	No	No	No	2	1.2x1.1
73	Female	53	Gastric carcinoma	No	Yes	Yes	Yes	3	1.7x1.4
74	Male	53	Gastric carcinoma	No	Yes	No	Yes	Diffuse, some fused, difficult to count	4.3x4.3
75	Male	53	Lung carcinoma	No	No	Yes	Yes	1	0.8x0.7
76	Female	53	Lung carcinoma	No	No	No	Yes	6	6.6x6.0
77	Male	53	Nasopharyngeal carcinoma	No	Yes	Yes	Yes	2	3.7x2.8
78	Male	53	Gastric carcinoma	No	Yes	Yes	Yes	3	11.4x8.4
79	Male	52	Lung carcinoma	No	No	No	Yes	4	3.7x3.4
80	Female	51	Cholangiocarcinoma	No	No	No	Yes	>5, some fused	3.9x3.3
81	Male	51	Esophageal carcinoma	No	Yes	Yes	Yes	2	3.0x2.2
82	Female	51	Endometrial cancer	No	No	No	Yes	2	2.5x1.5
83	Male	50	Cholangiocarcinoma	No	Yes	No	Yes	Diffuse, some fused, difficult to count	8.3x10.7
84	Male	49	Gastric carcinoma	No	No	No	Yes	4	0.8x0.7

85	Male	48	Gastric carcinoma	No	No	No	Yes	>8, some fused	5.7x5.3
86	Male	48	Lung carcinoma	No	Yes	Yes	Yes	3	3.0x2.4
87	Female	48	Pancreatic carcinoma	No	Yes	No	Yes	24	1.9x1.5
88	Male	47	Nasopharyngeal carcinoma	No	No	No	Yes	8	1.7x1.6
89	Male	46	Gallbladder carcinoma	No	No	No	Yes	1	1.6x0.8
90	Female	46	Leiomyosarcoma	No	Yes	No	Yes	2	2.2x2.0
91	Male	45	Lung carcinoma	No	Yes	Yes	2	2	4.5x4.1
92	Female	44	Lung carcinoma	Yes	Yes	Yes	Yes	9	3.1x2.3
93	Male	36	Lung carcinoma	Yes	No	Yes	Yes	1	2.7x2.7
94	Male	36	Lung carcinoma	Yes	Yes	Yes	Yes	>30, unclear boundary	2.1x2.0