

Table SI. Details of the patients who provide both ESCC and ANTT samples.

Patients	Pathology	Sex	Age (years)	Clinical staging according to AJCC (8th edition)				SI of IHC
				T stage	N stage	M stage	TNM stage	
1	ESCC	Male	65	T3	N0	M0	II	1
	ANTT							1
2	ESCC	Male	56	T3	N1	M0	III	0
	ANTT							0
3	ESCC	Male	60	T3	N1	M0	III	2
	ANTT							2
4	ESCC	Male	64	T3	N0	M0	II	8
	ANTT							1
5	ESCC	Male	59	T3	N0	M0	II	1
	ANTT							0
6	ESCC	Male	57	T2	N1	M0	II	6
	ANTT							2
7	ESCC	Female	58	T3	N1	M0	III	3
	ANTT							2
8	ESCC	Male	70	T3	N0	M0	II	4
	ANTT							3
9	ESCC	Female	74	T3	N1	M0	III	3
	ANTT							1
10	ESCC	Male	66	T3	N0	M0	II	12
	ANTT							1
11	ESCC	Female	52	T3	N1	M0	III	8
	ANTT							2
12	ESCC	Male	75	T3	N0	M0	II	1
	ANTT							1
13	ESCC	Male	51	T3	N0	M0	II	0
	ANTT							1
14	ESCC	Male	51	T3	N2	M0	II	4
	ANTT							1
15	ESCC	Male	59	T3	N2	M0	II	8
	ANTT							2
16	ESCC	Female	73	T3	N0	M0	II	12
	ANTT							4
17	ESCC	Male	63	T3	N1	M0	III	3
	ANTT							1
18	ESCC	Male	51	T3	N2	M0	III	3
	ANTT							1
19	ESCC	Male	60	T3	N2	M0	III	1
	ANTT							0
20	ESCC	Female	50	T3	N0	M0	II	4
	ANTT							3
21	ESCC	Male	71	T3	N2	M0	III	3
	ANTT							0
22	ESCC	Male	51	T2	N1	M0	II	2
	ANTT							0
23	ESCC	Male	64	T4b	N3	M0	IVa	2
	ANTT							2
24	ESCC	Male	64	T3	N0	M0	II	1
	ANTT							1
25	ESCC	Male	55	T2	N1	M0	II	2
	ANTT							1
26	ESCC	Male	52	T3	N1	M0	III	2
	ANTT							1
27	ESCC	Male	59	T3	N3	M0	IVa	1
	ANTT							0

Table SI. Continued.

Patients	Pathology	Sex	Age (years)	Clinical staging according to AJCC (8th edition)				SI of IHC
				T stage	N stage	M stage	TNM stage	
28	ESCC	Male	70	T3	N1	M0	III	1
	ANTT							0
29	ESCC	Male	65	T3	N0	M0	II	4
	ANTT							2
30	ESCC	Male	63	T2	N1	M0	II	3
	ANTT							1
31	ESCC	Female	67	T3	N0	M0	II	8
	ANTT							1
32	ESCC	Male	48	T3	N1	M0	III	3
	ANTT							1
33	ESCC	Male	53	T3	N1	M0	III	1
	ANTT							0
34	ESCC	Male	69	T3	N1	M0	III	2
	ANTT							1
35	ESCC	Male	61	T3	N1	M0	III	3
	ANTT							1
36	ESCC	Male	77	T3	N0	M0	II	4
	ANTT							2
37	ESCC	Male	61	T3	N1	M0	III	8
	ANTT							2
38	ESCC	Male	59	T3	N0	M0	II	0
	ANTT							1
39	ESCC	Female	56	T4b	N0	M0	IVa	0
	ANTT							0
40	ESCC	Female	68	T3	N0	M0	II	2
	ANTT							1
41	ESCC	Male	77	T3	N0	M0	II	3
	ANTT							0
42	ESCC	Male	57	T2	N1	M0	II	4
	ANTT							1
43	ESCC	Male	61	T3	N0	M0	II	2
	ANTT							1
44	ESCC	Male	68	T3	N3	M0	IVa	4
	ANTT							2
45	ESCC	Female	72	T3	N0	M0	II	3
	ANTT							1
46	ESCC	Male	57	T3	N0	M0	II	3
	ANTT							0
47	ESCC	Male	74	T3	N0	M0	II	8
	ANTT							2
48	ESCC	Male	72	T2	N2	M0	III	8
	ANTT							2
49	ESCC	Female	65	T3	N0	M0	II	4
	ANTT							2
50	ESCC	Male	75	T3	N0	M0	II	2
	ANTT							1
51	ESCC	Female	63	T3	N0	M0	II	3
	ANTT							1
52	ESCC	Female	73	T3	N2	M0	III	4
	ANTT							1
53	ESCC	Male	76	T3	N0	M0	II	2
	ANTT							0
54	ESCC	Male	61	T3	N1	M0	III	8
	ANTT							2

Table SI. Continued.

Patients	Pathology	Sex	Age (years)	Clinical staging according to AJCC (8th edition)				SI of IHC
				T stage	N stage	M stage	TNM stage	
55	ESCC	Male	79	T2	N3	M0	IVa	3
	ANTT							1
56	ESCC	Male	72	T3	N1	M0	III	8
	ANTT							2
57	ESCC	Male	54	T3	N1	M0	III	3
	ANTT							1
58	ESCC	Male	76	T2	N1	M0	II	1
	ANTT							1
59	ESCC	Male	65	T3	N3	M0	IVa	8
	ANTT							1
60	ESCC	Female	68	T3	N1	M0	III	4
	ANTT							2
61	ESCC	Male	81	T3	N1	M0	III	2
	ANTT							1
62	ESCC	Male	64	T3	N1	M0	III	1
	ANTT							2
63	ESCC	Female	71	T1b	N1	M0	I	1
	ANTT							1
64	ESCC	Male	48	T3	N2	M0	III	8
	ANTT							3
65	ESCC	Male	76	T1b	N1	M0	I	4
	ANTT							1
66	ESCC	Male	52	T2	N1	M0	II	4
	ANTT							1
67	ESCC	Female	68	T3	N1	M0	III	4
	ANTT							1
68	ESCC	Female	74	T1b	N1	M0	I	8
	ANTT							1
69	ESCC	Male	63	T1a	N1	M0	I	4
	ANTT							0
70	ESCC	Male	52	T3	N1	M0	III	2
	ANTT							1

ESCC, esophageal squamous cell carcinoma; ANTT, adjacent non-tumor tissues; SI, scoring index; IHC, immunohistochemistry; AJCC, American Joint Committee on Cancer.

Table SII. Details of the patients who provided ESCC samples only.

Patients	Pathology	Sex	Age (years)	Clinical staging according to AJCC (8th edition)				SI of IHC
				T stage	N stage	M stage	TNM stage	
1	ESCC	Male	73	T3	N1	M0	III	3
2	ESCC	Male	73	T3	N0	M0	II	1
3	ESCC	Female	56	T3	N0	M0	II	3
4	ESCC	Female	71	T3	N0	M0	II	3
5	ESCC	Female	81	T2	N0	M0	II	0
6	ESCC	Female	67	T3	N2	M0	III	8
7	ESCC	Male	72	T3	N0	M0	II	2
8	ESCC	Male	69	T3	N1	M0	III	3
9	ESCC	Male	72	T3	N2	M0	III	1
10	ESCC	Male	74	T3	N2	M0	III	4
11	ESCC	Male	73	T3	N0	M0	II	3
12	ESCC	Male	51	T3	N0	M0	II	8
13	ESCC	Male	49	T3	N2	M0	III	3
14	ESCC	Female	82	T3	N2	M0	III	8
15	ESCC	Male	65	T3	N1	M0	III	4
16	ESCC	Male	80	T3	N1	M0	III	4
17	ESCC	Female	79	T3	N0	M0	II	6
18	ESCC	Male	50	T3	N2	M0	III	4
19	ESCC	Male	54	T4b	N2	M0	IVa	8
20	ESCC	Female	74	T3	N0	M0	II	12
21	ESCC	Male	62	T3	N2	M0	III	8
22	ESCC	Female	74	T3	N0	M0	II	8
23	ESCC	Male	74	T3	N2	M0	III	3
24	ESCC	Male	79	T3	N1	M0	III	12
25	ESCC	Male	65	T3	N1	M0	III	2

ESCC, esophageal squamous cell carcinoma; ANTT, adjacent non-tumor tissues; SI, scoring index; IHC, immunohistochemistry; AJCC, American Joint Committee on Cancer.