

Table S3A. General information of the selected studies.

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57	Riihimäki M 2016	NS	-	-	-	-	-	-	-	-	-	-	NS
58	Piessen 2012	6	-	-	21	39	25	54	33	47	17	18	>50% of SRC
59	Heger U 2014	7	8	25	10	43	12	82	123	284	70	41	>50% of SRC
60	Schmidt T 2014	7	-	-	-	-	-	-	-	-	-	-	as described by the WHO
61	Voron T 2016	7	-	-	T0/T1 139	T0/T1 212	252	338	361	243	147	107	>50% of SRC and any diffuse-type + SRC
62	Khan N 2020	7	6	97	41	636	34	474	84	912	33	170	presence of SRC
62	Shridhar R 2013	6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
64	Taghavi S 2012	6	-	-	510	2098	761	2254	574	1089	501	1082	as described by the WHO
65	Bamboato ZM 2014	7	-	-	50	113	18	51	46	116	96	79	>50% of SRC
66	Postlewait LM 2015	7	1	5	58	128	29	74	105	142	118	100	as described by the WHO
67	Charalampakis N 2016	7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	as described by the WHO (Type 1: ≤10%, Type 2: 11-49%, Type 3: ≥50%)
68	Liu K 2017	NS	-	-	1099	4727	1442	5456	1012	2511	865	2183	>50% of SRC
69	Luu C 2017	NS	-	-	T1/2 22	T1/2 44	-	-	T3/4 17	T3/4 66	-	-	NS
70	Benesch MGK 2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	>50% of SRC; mixed SRCC if <50%
71	Tang CT 2020	NS	-	-	1182	102	2077	369	1351	199	655	82	abundant intracellular mucin + compressed displaced nucleus
72	Wei Q 2020	7	-	-	380	2056	187	921	600	2871	584	1545	>50% of SRC
73	Zhao X 2021	7	-	-	811	1263	341	489	916	1173	938	748	NS
74	de Aguiar VG 2019	8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	>50% of SRC

Abbreviations. JGCA: Japanese Gastric Cancer Association; NS: not specified; NSRCC: Non-Signet Ring Cell Carcinoma; OS: Overall Survival; SRC: Signet Ring Cell; SRCC: Signet Ring Cell Carcinoma; UDC: Undifferentiated Cancer; WHO: World Health Organization.

Table S3B. General information of the selected studies.

	Author	Classification	WHO ed	Japanese ed	Resection	Chemotherapy	Specimen or biopsy	SURVIVAL	HR/RR for SRCC
1	Efared B 2020	WHO	4th	-	ev resection	NS	specimen; biopsy	OS	-
2	Lee JH 2010	WHO; Nakamura	2nd	-	R0	-	specimen	-	-
3	Nam MJ 2010	Lauren; NS; Nakamura	-	-	R0	-	specimen	-	-
4	Kim HM 2011	Japanese	-	2nd	R0	-	specimen	-	-
5	Tong JH 2011	WHO; Nakamura	3rd	-	R0	-	specimen	OS	-
6	Huh CW 2013	WHO	2nd	-	R0	-	specimen	OS	-
7	Kim BS 2014	WHO; Japanese	NS	3rd	R0	-	specimen	-	-
8	Guo CG 2015	WHO; Japanese; Nakamura	NS	3rd	R0	-	specimen	OS	multiv RR for SRCC vs other
9	Jin EH 2015	WHO; Japanese	NS	NS	R0	-	specimen	OS	-
10	Lee SH 2015	Japanese	-	2nd	R0	-	specimen	-	-
11	Wang Z 2015	WHO; Japanese	3rd	3rd	R0	-	specimen	OS	multiv HR for SRCC vs other
12	Hwang CS 2016	Japanese; Lauren; Nakamura	-	3rd	R0	-	specimen	-	-
13	Imamura T 2016	NS	-	-	R0	-	specimen	OS	multiv HR for SRCC vs other
14	Kim YH 2016	WHO; Japanese; Lauren	4th	NS	R0 (surgery/ESD)	-	specimen	-	-
15	Yoon HJ 2016	WHO; Japanese; Lauren	3rd	3rd	R0 (surgery/ESD)	-	specimen	-	-
16	Bang CS 2017	NS (Nakamura)	-	-	R0/R+ (ESD)	-	specimen	CRD	-
17	Kang Sun H 2017	NS (mix WHO+Japanese)	-	-	R0	-	specimen	-	-
18	Lee IS 2017	WHO; Japanese; Lauren	NS	3rd	R0	-	specimen	-	-
19	Horiuchi Y 2018	NS (Japanese Nakamura)	-	-	R0 (ESD)	-	specimen	-	-
20	Kwak DS 2018	NS (Japanese Nakamura)	-	3rd	R0	-	specimen	-	-
21	Nakamura R 2019	NS (Japanese)	-	-	R0	-	specimen	-	-
22	Ryu DG 2019	Japanese	-	4th	R0	-	specimen	-	-

23	Zhu ZL 2020	Japanese; Lauren; Nakamura	-	3rd	R0	-	specimen	-	-
24	Zou Y 2020	NS	-	-	R0	-	specimen	-	-
25	Zu H 2014	WHO	2nd	-	R0	NS	specimen	OS	multiv HR for SRCC vs other
26	Alshehri A 2020	Japanese	-	NS	R0	ev adjuvant CHT	specimen	OS, RFS	multiv HR for SRCC vs other
27	Cho JH 2015	NS	-	-	R0/R+	palliative	not defined	OS	univ+multiv HR for SRCC vs other
28	Men HT 2016	NS	-	-	ev resection	IPC/systemic CHT	specimen	OS	univ+multiv HR for SRCC vs other
29	Choi JH 2020	NS	-	-	ev resection	palliative	not defined	OS	multiv HR for SRCC vs other
30	Zhang M 2010	WHO	4th	-	R0/R+	ev adjuvant CHT	specimen	OS	-
31	Chiu CT 2011	WHO	2nd	-	R0	NS	specimen	OS	-
32	Jiang CG 2011	WHO	2nd	-	R0/R+	ev adjuvant CHT	specimen	OS	multiv RR for SRCC vs other
33	Lee HH 2012	WHO; Japanese; Lauren	2nd	2nd	R0/R+	ev adjuvant CHT	specimen	OS	-
34	Bu Z 2013	Japanese	-	1st	R0/R+	NS	specimen	OS	-
35	Jiang H 2013	Japanese	-	2nd	R0/R+	NS	specimen	OS	-
36	Kwon KJ 2014	NS (Nakamura)	-	-	R0/R+	ev adjuvant CHT	specimen	OS	univ HR for SRCC vs other
37	Shim JH 2014	WHO; Japanese mentioned	2nd	2nd	R0	ev adjuvant CHT	specimen	OS	univ+multiv HR for SRCC vs other
38	Liu X 2015	WHO	4th	-	R0	NS	specimen	OS	multiv HR for SRCC vs other
39	Hsu JT 2016	Japanese	-	3rd	R0/R+	ev adjuvant CHT	specimen	OS	multiv HR for SRCC vs other
40	Kong P 2016	WHO	4th	-	R0	ev adjuvant CHT	specimen	OS	univ HR for SRCC vs other
41	Lu M 2016	WHO; Lauren	4th	-	R0/R+	ev neoadjuvant/adjuvant/palliative CHT	not defined	OS	univ+multiv HR for SRCC vs other
42	Tang X 2016	WHO; Lauren	4th	-	R0	ev adjuvant CHT	specimen	OS	-
43	Wang Z 2016	NS	NS	NS	R0	ev adjuvant CHT	specimen	OS	univ HR for SRCC vs other
44	Chon HJ 2017	WHO; Lauren	4th	-	R0	NS	specimen	OS, RFS	multiv HR for SRCC vs other
45	Chen J 2018	WHO	2nd	-	R0	NS	specimen	-	-
46	Lee D 2018	NS	-	-	R0	ev adjuvant CHT	specimen	DFS, CSS	-

47	Kao YC 2019	NS	-	-	R0	NS	specimen	OS, DFS	multiv HR for SRCC vs other
48	Ahn H 2020	WHO	NS	-	R0/R+	ev adjuvant CHT	specimen	OS	univ+multiv HR for SRCC vs other
49	Huang KH 2020	WHO	2nd	-	R0	ev adjuvant CHT	specimen	OS	univ RR for SRCC vs other
50	Wang JB 2020	WHO	4th	-	R0	ev adjuvant CHT	specimen	OS	-
51	Dong X 2021	WHO	4th	-	R0	ev adjuvant CHT	specimen	OS	univ+multiv HR for SRCC vs other
52	Jin X 2021	Japanese; Nakamura	-	3rd	R0	-	specimen	-	-
53	Zhao B 2021	WHO; Japanese	NS	2nd	R0	ev adjuvant CHT	specimen	DFS	-
54	Bozkaya Y 2016	WHO	2nd	-	R0/R+	ev adjuvant CHT	specimen	OS	-
55	Gronnier C 2013	WHO	2nd	-	R0/R+	ev adjuvant CHT	specimen	OS	multiv HR for SRCC vs other
56	Lemoine N 2016	WHO	2nd	-	ev resection	palliative	not defined	OS, PFS	univ+multiv HR for SRCC vs other
57	Riihimäki M 2016	WHO; Lauren	NS	-	NS	NS	not defined	OS	multiv HR for SRCC vs other
58	Piessen 2012	WHO	2nd	-	R0/R+	NS	biopsy	OS	multiv HR for SRCC vs other
59	Heger U 2014	WHO; Lauren	NS	-	ev resection R0/R+	neoadjuvant CHT	not defined	OS	multiv RR for SRCC vs other
60	Schmidt T 2014	WHO	NS	-	R0/R+	neoadjuvant	specimen	OS	multiv RR for SRCC vs other
61	Voron T 2016	WHO; Lauren	2nd	-	R0/R+	ev neoadjuvant/adjuvant CHT	specimen	OS	multiv HR for SRCC vs other
62	Khan N 2020	NS (WHO)	-	-	R0/R+	ev neoadjuvant/adjuvant CHT	specimen	OS	univ HR for SRCC vs other
63	Shridhar R 2013	NS	-	-	ev resection	palliative	not defined	OS	multiv HR for SRCC vs other
64	Taghavi S 2012	WHO	2nd	-	NS	NS	not defined	OS	univ+multiv HR for SRCC vs other
65	Bamboat ZM 2014	WHO; Lauren	1st	-	R0	ev adjuvant CHT	specimen	OS	-
66	Postlewait LM 2015	WHO	4th	-	R0/R+	ev neoadjuvant/adjuvant CHT	specimen	OS, RFS	multiv HR for SRCC vs other
67	Charalampakis N 2016	WHO	4th	-	R0/R+	neoadjuvant CRT	specimen	OS, RFS	univ+multiv HR for SRCC vs other
68	Liu K 2017	WHO	4th	-	NS	NS	not defined	OS	-
69	Luu C 2017	Lauren	-	-	R0/R+	ev neoadjuvant/adjuvant CHT	specimen	OS	multiv HR for SRCC vs other
70	Benesch MGK 2020	WHO	5th	-	ev resection	ev CHT/RT	not defined	OS	univ+multiv HR for SRCC vs other
71	Tang CT 2020	WHO	5th	-	resection	ev adjuvant CHT	specimen	OS, CSS	multiv HR for SRCC vs other

72	Wei Q 2020	WHO	4th	-	NS	NS	NS	OS	-
72	Zhao X 2021	WHO	4th	-	ev resection	NS	NS	OS, CSS	multiv HR for SRCC vs other
74	de Aguiar VG 2019	WHO; Lauren	4th	-	ev resection	ev adjuvant CHT	not defined	OS	multiv HR for SRCC vs other

Abbreviations. CHT: Chemotherapy; CRD: Cancer Related Death; CSS: Cancer Specific Survival; DFS: Disease Free Survival; ESD: Endoscopic Submucosal Dissection; ev: eventual; IPC: Intraperitoneal Chemotherapy; JGCA: Japanese Gastric Cancer Association; MDA: Moderately Differentiated Adenocarcinoma; multiv: multivariate; NS: not specified; OS: Overall Survival; PDA: Poorly Differentiated Adenocarcinoma; PFS: Progression Free Survival; RFS: Relapse Free Survival; R0: radical resection; R+: non-radical resection; RT: Radiotherapy; SRC: Signet Ring Cell; SRCC: Signet Ring Cell Carcinoma; UDC: Undifferentiated Cancer; univ: univariate; WDA: Well Differentiated Adenocarcinoma; WHO: World Health Organization; WMDA: Well/Moderately Differentiated Adenocarcinoma.