

Supplementary Table 1. Two-by-two tables of included studies

Study ID	Indeterminate classification	US RSS	Intermediate to high risk				High risk			
			TP	FP	FN	TN	TP	FP	FN	TN
Ahmadi et al. (2019) [1]	AUS/FLUS	ACR	8	13	12	70	2	0	18	83
	AUS/FLUS	ATA	6	1	14	73	2	0	18	83
	FN/SFN	ACR	6	20	24	49	2	2	28	67
	FN/SFN	ATA	4	17	26	52	2	1	28	68
Al Dawish et al. (2020) [2]	AUS/FLUS	ACR	30	58	16	63	16	13	30	108
	AUS/FLUS	ATA	29	47	17	74	22	22	24	99
Barbosa et al. (2019) [3]	AUS/FLUS; FN/SFN; SM	ACR	55	37	11	37	26	2	40	72
	AUS/FLUS; FN/SFN; SM	ATA	55	37	11	37	46	10	20	64
Baser et al. (2017) [4]	AUS/FLUS	Kwak	205	426	0	9	3	0	202	435
Capezone et al. (2021) [5]	AUS/FLUS; FN/SFN	EU	19	20	10	24	–	–	–	–
Celletti et al. (2021) [6]	AUS/FLUS; FN/SFN	K	20	12	8	56	–	–	–	–
Chaigneau et al. (2018) [7]	AUS/FLUS	French	13	37	3	16	0	0	16	53
	FN/SFN	French	42	253	4	35	0	0	46	288
	SM	French	139	40	9	11	14	0	134	51
Chirayath et al. (2019) [8]	AUS/FLUS; FN/SFN	Horvath	–	–	–	–	7	5	50	35
He et al. (2017) [9]	AUS/FLUS; FN/SFN; SM	Kwak	254	170	1	28	–	–	–	–
Hong et al. (2019) [10]	AUS/FLUS	ATA	318	147	6	212	262	36	62	323
	AUS/FLUS	K	321	147	3	212	259	32	65	327
Hong et al. (2017) [11]	AUS/FLUS	K	33	44	20	84	15	9	38	119
	FN/SFN	K	6	12	2	12	0	1	8	23
	SM	K	43	1	10	0	30	0	23	1
Slowinska-Klencka et al. (2020) [12]	AUS/FLUS	AACE/ACE/AME	–	–	–	–	18	54	17	240
	AUS/FLUS	ACR	–	–	–	–	9	24	26	270
	AUS/FLUS	ATA	–	–	–	–	16	41	19	294
	AUS/FLUS	EU	–	–	–	–	18	54	17	240
	AUS/FLUS	K	–	–	–	–	12	23	23	271
	FN/SFN	AACE/ACE/AME	–	–	–	–	10	45	9	103
	FN/SFN	ACR	–	–	–	–	6	22	13	126
	FN/SFN	ATA	–	–	–	–	7	33	12	115
	FN/SFN	EU	–	–	–	–	10	45	9	103
	FN/SFN	K	–	–	–	–	6	21	13	127
	SM	AACE/ACE/AME	–	–	–	–	21	0	13	10
	SM	ACR	–	–	–	–	13	0	21	10
	SM	ATA	–	–	–	–	20	0	14	10
	SM	EU	–	–	–	–	21	0	13	10
SM	K	–	–	–	–	18	0	16	10	
Koh et al. (2016) [13]	AUS/FLUS	Kwak	30	128	4	59	4	1	30	186
Maia et al. (2015) [14]	AUS/FLUS	French	3	31	2	19	0	1	5	49
	FN/SFN	French	16	11	3	5	5	1	14	15
	SM	French	21	8	5	3	6	1	20	10
Mao et al. (2017) [15]	AUS/FLUS	Kwak	43	69	0	9	10	0	43	78
Marina et al. (2021) [16]	FN/SFN	ACR	26	42	8	15	13	12	21	45
	FN/SFN	EU	23	40	11	17	14	24	20	33
Mehta et al. (2020) [17]	AUS/FLUS	ACR	18	7	1	8	7	3	12	12
	FN/SFN	ACR	4	1	1	0	2	1	3	0
	SM	ACR	7	0	0	0	7	0	0	0
Park et al. (2015) [18]	AUS/FLUS	Kwak	11	14	7	26	2	1	16	39
Piccardo et al. (2020) [19]	AUS/FLUS	EU	7	18	2	40	–	–	–	–
	TIRFN/SFN	EU	12	10	6	16	–	–	–	–
Rho et al. (2017) [20]	AUS/FLUS	Kwak	46	26	3	3	6	0	43	29
Rocha et al. (2019) [21]	AUS/FLUS; FN/SFN	ACR	44	43	7	49	18	2	33	90
Rosario et al. (2021) [22]	AUS/FLUS; FN/SFN	ACR	67	141	5	86	44	14	28	213
	AUS/FLUS; FN/SFN	ATA	63	110	9	117	43	18	29	209
Sahli et al. (2019) [23]	AUS/FLUS; FN/SFN	ACR	27	72	3	1	9	9	21	64
Sahli et al. (2019) <sup>a</sup> [23]	AUS/FLUS; FN/SFN	ACR	20	61	8	38	–	–	–	–
Suh et al. (2020) [24]	AUS/FLUS	K	193	253	0	0	126	45	67	208
Sultan et al. (2020) [25]	AUS/FLUS; FN/SFN	ACR	7	6	3	1	2	0	8	7
	AUS/FLUS; FN/SFN	ATA	7	6	3	1	5	1	5	6
Trimboli et al. (2017) [26]	–	AACE/ACE/AME	12	68	9	12	–	–	–	–
	–	ATA	10	67	11	13	–	–	–	–
	–	BTA	19	65	2	15	–	–	–	–
	–	Horvath	14	65	7	15	–	–	–	–
Ulisse et al. (2017) [27]	AUS/FLUS; FN/SFN	K	17	49	0	3	1	0	16	52
Wang et al. (2020) [28]	AUS/FLUS; FN/SFN	ACR	46	126	38	48	9	10	75	164
	AUS/FLUS; FN/SFN	ATA	40	99	44	85	11	10	73	174
Wu et al. (2019) [29]	AUS/FLUS; FN/SFN	ACR	10	22	2	7	9	8	3	21
Yoo et al. (2020) [30]	AUS/FLUS	ACR	134	144	14	90	85	41	63	193
	AUS/FLUS	ATA	121	110	27	124	82	42	66	192
	AUS/FLUS	EU	134	134	14	100	93	62	55	172
	AUS/FLUS	K	127	123	21	111	79	40	69	194
Yoon et al. (2016) [31]	AUS/FLUS	Kwak	78	96	4	14	12	3	70	107
Zhang et al. (2020) [32]	AUS/FLUS; FN/SFN; SM	ACR	–	–	–	–	127	6	29	31

US RSS, ultrasound risk stratification systems; TP, true-positive; FP, false-positive; FN, false-negative; TN, true-negative; AUS/FLUS, atypia of undetermined significance or follicular lesion of undetermined significance; ACR, American College of Radiology; ATA, American Thyroid Association; FN/SFN, follicular neoplasm or suspicious for follicular neoplasm; SM, suspicious for malignancy; EU, European Thyroid Association; K, Korean Society of Thyroid Radiology; AACE/ACE/AME, American Association of Clinical Endocrinologists/American College of Endocrinology/Associazione Medici Endocrinologi; BTA, British Thyroid Association.

<sup>a</sup>Different studies; –, not reported.