

Supplementary Table 2. Deviance information criterion for all analyses

US RSS	Intermediate to high risk as positive					High risk as positive				
	Model 1	Model 2	Model 3	Model 4	Model selection	Model 1	Model 2	Model 3	Model 4	Model selection
Diagnostic performance of US RSS for all nodules										
ACR	153.8637	153.8512	153.8508	153.8630	Model 3	158.8776	158.8678	158.8693	158.8761	Model 2
ATA	116.6563	116.6349	116.6348	116.6561	Model 3	112.3825	112.4165	112.4178	112.3824	Model 4
EU	51.74138	51.73996	51.73990	51.74136	Model 3	43.31848	43.32047	43.32045	43.31856	Model 1
K	–	64.52876	–	–	Model 2	81.20002	81.23420	81.23513	81.19975	Model 4
Kwak et al.	70.90019	70.89195	70.88281	70.90615	Model 3	49.17629	–	49.20147	–	Model 1
Overall	543.9986	544.0081	544.0036	543.9932	Model 4	481.8172	481.7953	481.8049	481.8136	Model 2
Diagnostic performance of US RSS for AUS/FLUS										
ACR	48.76785	48.76401	48.76393	48.77150	Model 3	57.66253	57.64402	57.64479	57.66225	Model 2
ATA	52.43901	52.42756	52.42767	52.43833	Model 2	65.80707	65.87163	65.87505	65.80473	Model 4
EU	24.86749	24.87094	24.87081	24.86741	Model 4	28.38932	28.38758	28.38754	28.38936	Model 3
K	–	47.13674	–	–	Model 2	70.06720	70.08801	70.08821	70.06697	Model 4
Kwak et al.	59.74358	59.75115	59.75451	59.73654	Model 4	36.45882	36.45815	36.45880	36.46003	Model 2
Overall	251.0192	251.0232	251.0195	251.0209	Model 1	279.2569	279.2611	279.2679	279.2546	Model 4
Diagnostic performance of US RSS for FN/SFN										
Overall	90.07483	90.10061	90.10073	90.07433	Model 4	119.5663	119.5561	119.5578	119.5662	Model 2
Diagnostic performance of US RSS for SM										
Overall	29.39112	29.39852	29.39796	29.39075	Model 4	60.13778	60.12772	60.13868	60.13076	Model 2

US RSS, ultrasound risk stratification systems; ACR, American College of Radiology; ATA, American Thyroid Association; EU, European Thyroid Association; K, Korean Society of Thyroid Radiology; AUS/FLUS, atypia of undetermined significance or follicular lesion of undetermined significance; FN/SFN, follicular neoplasm or suspicious for follicular neoplasm; SM, suspicious for malignancy.

Supplementary Table 3. Diagnostic performance of each US RSS for AUS/FLUS (LR+, LR–, DOR, and AUC)

US RSS	Intermediate to high risk as positive				High risk as positive			
	LR+ (95% CrI)	LR– (95% CrI)	DOR (95% CrI)	AUC (95% CrI)	LR+ (95% CrI)	LR– (95% CrI)	DOR (95% CrI)	AUC (95% CrI)
ACR	1.75 (1.44–2.11)	0.36 (0.16–0.54)	6.47 (2.71–10.5)	0.79 (0.70–0.92)	26.2 (5.12–89.4)	0.69 (0.60–0.79)	38.4 (7.41–129)	0.86 (0.61–0.99)
ATA	5.79 (1.53–13.8)	0.30 (0.06–0.43)	24.0 (8.59–40.6)	0.84 (0.69–0.98)	4.28 (3.06–5.88)	0.58 (0.47–0.71)	7.72 (4.39–12.6)	0.60 (0.41–0.75)
EU	2.06 (1.87–2.24)	0.23 (0.06–0.40)	22.5 (5.46–39.5)	0.87 (0.77–0.96)	2.59 (2.17–3.00)	0.56 (0.47–0.65)	4.90 (3.37–6.43)	0.67 (0.55–0.78)
K	1.21 (0.39–2.11)	1.09 (0.03–3.42)	133 (0.29–489)	0.70 (0.28–0.98)	4.25 (3.29–5.29)	0.54 (0.42–0.67)	8.29 (5.24–12.6)	0.62 (0.55–0.75)
Kwak et al.	1.15 (1.07–1.24)	0.30 (0.16–0.56)	4.62 (2.11–8.06)	0.85 (0.77–0.93)	23.2 (12.6–31.2)	0.86 (0.84–0.90)	27.2 (13.9–37.2)	0.26 (0.01–0.87)
Overall	1.49 (1.25–2.02)	0.24 (0.17–0.33)	6.43 (4.15–9.37)	0.82 (0.75–0.89)	5.89 (3.69–7.65)	0.69 (0.57–0.78)	8.63 (5.59–11.8)	0.79 (0.70–0.86)

US RSS, ultrasound risk stratification systems; AUS/FLUS, atypia of undetermined significance or follicular lesion of undetermined significance; LR, likelihood ratio; DOR, diagnostic odds ratio; AUC, area under the receiver operating characteristic curve; CrI, credible interval; ACR, American College of Radiology; ATA, American Thyroid Association; EU, European Thyroid Association; K, Korean Society of Thyroid Radiology.

Supplementary Table 4. Diagnostic performance for FN/SFN and SM (LR+, LR–, DOR, and AUC)

Nodule classification	Intermediate to high risk as positive				High risk as positive			
	LR+ (95% CrI)	LR– (95% CrI)	DOR (95% CrI)	AUC (95% CrI)	LR+ (95% CrI)	LR– (95% CrI)	DOR (95% CrI)	AUC (95% CrI)
FN/SFN	1.08 (0.88–1.20)	0.89 (0.74–1.18)	1.26 (0.75–1.60)	0.56 (0.45–0.64)	2.40 (1.72–3.74)	0.87 (0.80–0.93)	2.76 (1.96–4.26)	0.68 (0.55–0.84)
SM	1.11 (0.97–1.22)	0.61 (0.10–1.38)	4.99 (0.75–12.9)	0.95 (0.93–0.98)	555 (10.3–3,340)	0.45 (0.33–0.56)	1612 (21.0–9916)	0.54 (0.39–0.70)

FN/SFN, follicular neoplasm or suspicious for follicular neoplasm; SM, suspicious for malignancy; LR, likelihood ratio; DOR, diagnostic odds ratio; AUC, area under the receiver operating characteristic curve; CrI, credible interval.