

Supplementary Table S2. Discordance assessment criteria used in proficiency test: criteria for thyroid fine-needle aspiration samples

Submitted diagnosis	Original diagnosis								
	Benign, c/w a benign follicular nodule	Benign, c/w chronic lymphocytic (Hashimoto's) thyroiditis	Benign, c/w granulomatous (subacute) thyroiditis	Follicular lesion, conventional type	Follicular lesion, Hurthle cell (oncocytic type)	Papillary carcinoma	Poorly differentiated carcinoma	Medullary carcinoma	Undifferentiated (anaplastic) carcinoma
Benign, c/w a benign follicular nodule	O	A	A	B	B	C	C	C	C
Benign, c/w chronic lymphocytic (Hashimoto's) thyroiditis	A	O	A	B	B	C	C	C	C
Benign, c/w granulomatous (subacute) thyroiditis	A	A	O	B	B	C	C	C	C
Benign, other	A	A	A	B	B	C	C	C	C
AUS or FLUS	A	A	A	A	A	B	B	B	B
Follicular lesion, conventional type	B	B	B	O	A	A	B	B	B
Follicular lesion, Hurthle cell (oncocytic type)	B	B	B	B	O	A	B	B	B
Suspicious for papillary carcinoma	C	C	C	B	B	O	B	B	B
Suspicious for poorly differentiated carcinoma	C	C	C	B	B	B	O	B	B
Suspicious for medullary carcinoma	C	C	C	B	B	B	B	O	B
Suspicious for undifferentiated carcinoma	C	C	C	B	B	B	B	B	O
Suspicious for lymphoma	C	C	C	B	B	B	B	B	B

Suspicious for malignancy, other	C	C	C	B	B	A	B	B	B
Papillary carcinoma	C	C	C	A	A	O	A	A	A
Poorly differentiated carcinoma	C	C	C	B	B	A	O	A	A
Medullary carcinoma	C	C	C	B	B	A	A	O	A
Undifferentiated (anaplastic) carcinoma	C	C	C	B	B	A	A	A	O
Malignant, other	C	C	C	B	B	A	A	A	A

c/w, consistent with; O, concordant; A, minimal discordance; B, minor discordance; C, major discordance; AUS, atypia of undetermined significance; FLUS, follicular lesion of undetermined significance.

Supplementary Table S3. Discordance assessment criteria used in proficiency test: criteria for body fluid, urine, and other fine-needle aspiration samples

Submitted diagnosis	Original diagnosis				
	Negative or Benign	Atypical, favor reactive	Atypical, favor neoplastic	Malignant	Malignant, but different diagnosis
Benign	O	A	B	C	C
Atypical, favor reactive	A	O	A	B	B
Atypical, favor neoplastic	B	A	O	A	A
Malignant	C	B	A	O	A

O, concordant; A, minimal discordance; B, minor discordance; C, major discordance.