

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.