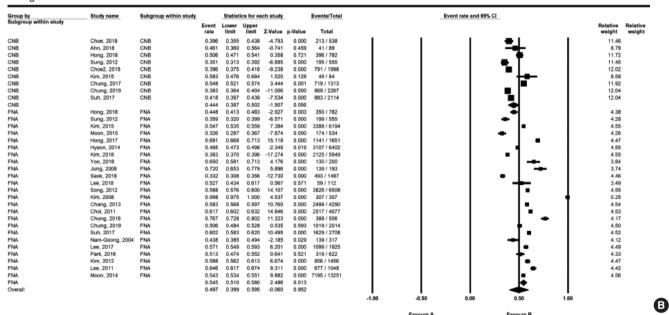
Non-diagnostic results

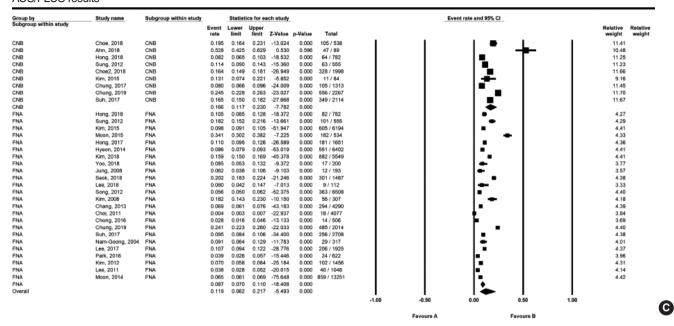
subgroup within study															
NB			Event rate	Lower limit	Upper limit	Z-Value	p-Value	Total						Relative weight	Rela wei
	Choe, 2018	CNB	0.048	0.033	0.070	-14.824	0.000	26 / 538	- 1		 =		- 1	12.51	
NB	Ahn, 2018	CNB	0.090	0.046	0.170	-6.247	0.000	8 / 89		- 1	I 		- 1	8.40	
:NB	Hong, 2018	CNB	0.020	0.013	0.033	-15.315	0.000	16 / 782		- 1				11.19	
NB	Sung, 2012	CNB	0.014	0.007	0.029	-11.864	0.000	8 / 555		- 1				8.71	
NB	Choe2, 2018	CNB	0.066	0.056	0.078	-29.409	0.000	132 / 1998		- 1	I∎			14.95	
NB	Kim, 2015	CNB	0.006	0.000	0.087	-3.617	0.000	0 / 84		- 1				1.14	
NB .	Chung, 2017	CNB	0.027	0.020	0.038	-21.117	0.000	36 / 1313						13.31	
NB	Chung, 2019	CNB	0.059	0.050	0.069	-31.054	0.000	133 / 2267		- 1				14.97	
NB	Suh. 2017	CNB	0.052	0.043	0.062	-29.609	0.000	109 / 2114		- 1	I			14.81	
:NB			0.041	0.031	0.055	-19.984	0.000			- 1	17				
NA.	Hong, 2018	FNA	0.132	0.110	0.157	-17.835	0.000	103 / 782		- 1	l' •			4.29	
NA	Sung, 2012	FNA	0.061	0.044	0.085	-15.420	0.000	34 / 555		- 1	• T			3.83	
NA	Kim, 2015	FNA	0.123	0.115	0.131	-50.784	0.000	761 / 6194		- 1	I			4.55	
NA	Moon, 2015	FNA	0.116	0.092	0.146	-15.027	0.000	62 / 534		- 1	I •			4.12	
NA	Hong, 2017	FNA	0.048	0.039	0.059	-25.938	0.000	79 / 1651		- 1	le T			4.24	
NA.	Hyeon, 2014	FNA	0.067	0.061	0.073	-52.681	0.000	428 / 6402		- 1	l'•			4.52	
NA	Kim, 2018	FNA	0.131	0.122	0.140	-47.555	0.000	727 / 5549		- 1	I⁻•			4.55	
NA	Yoo, 2018	FNA	0.110		0.161	-9.251	0.000	22 / 200		- 1	1 -			3.47	
NA	Jung, 2008	FNA	0.062	0.036	0.106	-9.103	0.000	12 / 193		- 1	I=			2.94	
NA	Seok, 2018	FNA	0.208	0.188	0.229	-20.938	0.000	309 / 1487		- 1	I - •			4.48	
NA	Lee, 2018	FNA	0.089	0.049	0.158	-7.009	0.000	10 / 112		- 1	 -			2.71	
NA	Song. 2012	FNA	0.214		0.224	-43.058	0.000	1392 / 6508		- 1	T			4.57	
NA.	Kim, 2008	FNA	0.094	0.066	0.133	-11.583	0.000	29 / 307		- 1	I = -			3.70	
NA.	Chang, 2013	FNA	0.181	0.170	0.193	-38.079	0.000	776 / 4290		- 1	T			4.55	
NA.	Choi. 2011	FNA	0.160	0.149	0.172		0.000	654 / 4077		- 1	1.5			4.54	
NA.	Chong, 2016	FNA	0.071	0.052	0.097	-14.857	0.000	36 / 506		- 1	1-			3.86	
NA.	Chung, 2019	FNA	0.103	0.091	0.117	-29.518	0.000	208 / 2014		- 1	1.			4.44	
NA.	Suh. 2017	FNA	0.121	0.110	0.134	-33.634	0.000	329 / 2708		- 1	1.			4.49	
NA .	Nam-Goong, 2004	FNA	0.319		0.372	-6.306	0.000	101 / 317		- 1	I	_		4.21	
NA.	Lee. 2017	FNA	0.094	0.081	0.107	-29.016	0.000	180 / 1925		- 1		- 1		4.42	
NA.	Park, 2016	FNA	0.150	0.124	0.180	-15.460	0.000	93 / 622		- 1	1 -			4.25	
NA.	Kim. 2012	FNA	0.115		0.132	-24.849	0.000	167 / 1456		- 1	1.			4.40	
NA.	Lee, 2011	FNA	0.104	0.099	0.124		0.000	109 / 1048	- 1	- 1	1.5		- 1	4.31	
NA.	Moon, 2014	FNA	0.157	0.151	0.164	-70.349		2084 / 13251	- 1	- 1	ı		1	4.58	
NA NA	MOOH, 2014	FRA	0.137	0.103	0.104	-23.543	0.000	2004 / 13231	- 1	- 1	I .		1	4.06	
Overall			0.119	0.024	0.138	-4.492	0.000		- 1	- 1	- الحا		1		
veran			0.0/1	0.024	0.191	-4.432	0.000				_	.!.			
									-1.00	-0.50	0.00	0.50	1.00		

Benign results

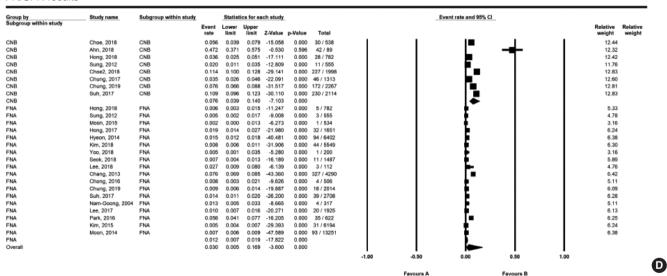


Supplementary Fig. 4. Forest plot for proportional analysis of rate for the diagnosis according to the Bethesda system between fine-needle aspiration (FNA) versus core needle biopsy (CNB). (A) Non-diagnostic results. (B) Benign results. (Continued to the next page)

AUS/FLUS results



FN/SFN results



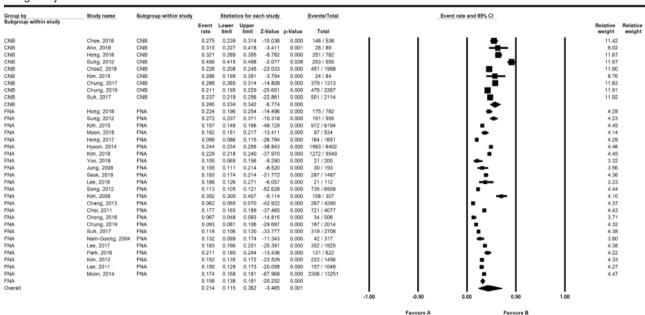
Supplementary Fig. 4. (Continued) (C) Atypia of undetermined significance/follicular lesion of undetermined significance (AUS/FLUS) results. (D) Follicular neoplasm/suspicious for follicular neoplasm (FN/SFN) results.

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Suspicious for malignancy

Group by Subgroup within study	orang mame	Subgroup within study		Statistics for each study							vent rate and 95% CI				
			Event rate	Lower limit	Upper limit	Z-Value	p-Value	Total						Relative weight	Relativ weigh
NB	Choe, 2018	CNB	0.030	0.018	0.048	-13.731	0.000	16 / 538	- 1	1		- 1	- 1	12.19	
NB	Ahn, 2018	CNB	0.011	0.002	0.075	-4.452	0.000	1 / 89	- 1			- 1	- 1	2.57	
NB	Hong, 2018	CNB	0.035	0.024	0.050	-17.006	0.000	27 / 782	- 1			- 1	- 1	13.59	
NB	Sung, 2012	CNB	0.045	0.031	0.066	-14.922	0.000	25 / 555	- 1			- 1	- 1	13.38	
NB	Choe2, 2018	CNB	0.035	0.027	0.044	-27.185	0.000	69 / 1998	- 1			- 1	- 1	15.15	
NB	Chung, 2017	CNB	0.021	0.015	0.031	-20.030	0.000	28 / 1313	- 1			- 1	- 1	13.70	
NB	Chung, 2019	CNB	0.026	0.020	0.033	-27.363	0.000	58 / 2267	- 1			- 1	- 1	14.95	
NB	Suh, 2017	CNB	0.020	0.015	0.027	-25.014	0.000	42 / 2114	- 1	- 1		- 1	- 1	14.49	
NB			0.028	0.020	0.039	-20.159	0.000		- 1	- 1	li l	- 1	- 1		
NA.	Hong, 2018	FNA	0.086	0.068	0.107	-18.531	0.000	67 / 782	- 1	- 1	l´•	- 1	- 1	4.87	
NA.	Sung, 2012	FNA	0.121	0.096	0.151	-15.240	0.000	67 / 555	- 1	- 1		- 1	- 1	4.86	
NA.	Moon, 2015		0.034	0.021	0.053	-13.995	0.000	18 / 534	- 1		•	- 1	- 1	4.06	
NA.	Hong, 2017	FNA	0.033	0.025	0.042	-24.478	0.000	54 / 1651	- 1			- 1	- 1	4.81	
NA.	Hyeon, 2014		0.103	0.096	0.111	-52.640	0.000	659 / 6402	- 1		_ F	- 1	- 1	5.25	
NA.		FNA	0.090	0.083	0.098	-49.323	0.000	499 / 5549	- 1		l ē	- 1	- 1	5.23	
NA.	Yoo, 2018	FNA	0.045	0.024	0.084	-8.957	0.000	9 / 200	- 1		-	- 1	- 1	3.27	
NA.		FNA	0.058	0.047	0.071	-25.119	0.000	86 / 1487	- 1		I .	- 1	- 1	4.97	
NA.	Lee, 2018	FNA	0.089	0.049	0.158	-7.009	0.000	10 / 112	- 1		I	- 1	- 1	3.35	
NA.	Chang, 2013	FNA	0.030	0.025	0.035	-38.742	0.000	127 / 4290	- 1			- 1	- 1	5.08	
NA.	Choi, 2011	FNA	0.041	0.035	0.047	-39.906	0.000	167 / 4077	- 1			- 1	- 1	5.13	
NA.	Chong, 2016	FNA	0.059	0.042	0.084	-14.685	0.000	30 / 506	- 1		•	- 1	- 1	4.46	
NA.	Song. 2012		0.030	0.026	0.034	-47.686	0.000	192 / 6508	- 1		•	- 1	- 1	5.15	
NA.	Chung, 2019	FNA	0.048	0.040	0.058	-28.671	0.000	97 / 2014	- 1		l•	- 1	- 1	5.01	
NA.		FNA	0.050	0.043	0.059	-33.412	0.000	136 / 2708	- 1	- 1	lī.	- 1	- 1	5.09	
NA.		FNA	0.035	0.028	0.045	-26.786	0.000	68 / 1925	- 1	- 1	le	- 1	- 1	4.90	
NA.		FNA	0.032	0.021	0.049	-14.979	0.000	20 / 622	- 1	- 1	l.	- 1	- 1	4.16	
NA.		FNA	0.075	0.062	0.090	-25.248	0.000	109 / 1456	- 1	1	Γ∎	- 1	- 1	5.03	
NA.		FNA	0.062	0.049	0.078	-21.209	0.000	65 / 1048	- 1	- 1	16	- 1	- 1	4.87	
NA.		FNA	0.071	0.064	0.077	-51.961	0.000	437 / 6194	- 1	- 1	1.	- 1	- 1	5.23	
iA.	Moon, 2014		0.054	0.050	0.058	-74.478		714 / 13251	- 1	- 1	I.ē	- 1	- 1	5.25	
NA.			0.055	0.045	0.066	-28.537	0.000		- 1	- 1	17	- 1	- 1	0.20	
verall			0.040	0.021	0.075	-9.249	0.000		ı	- 1	l∳	- 1	- 1		
									-1.00	-0.50	0.00	0.50	1.00		
										Favours A		Favours B			

Malignancy



Supplementary Fig. 4. (Continued) (E) Suspicious for malignancy. (F) Malignancy. CI, confidence interval.