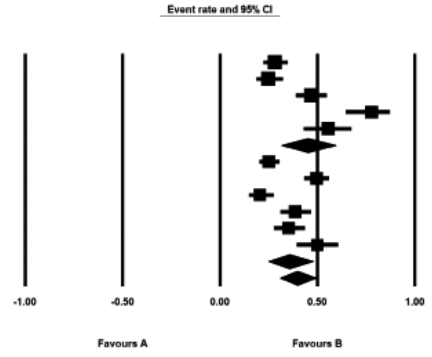
Benign (P=1.000)

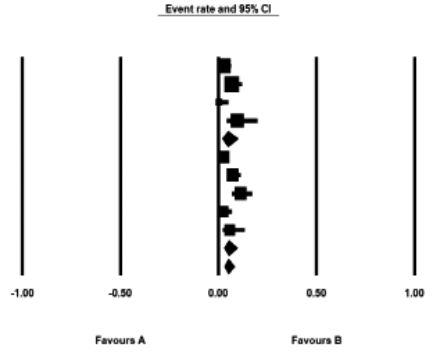
Group by Subgroup within study	Study name	Subgroup within study	Outcome	Event rate	Lower limit	Upper limit	Z-Value	p-Value	Total	Relative weight
CNB	Choi, 2017	CNB	Benign	0.281	0.224	0.346	-6.121	0.000	59 / 210	21.25
CNB	Na, 2012	CNB	Benign	0.248	0.188	0.321	-6.069	0.000	40 / 161	20.75
CNB	Na, 2015	CNB	Benign	0.468	0.392	0.546	-0.795	0.427	74 / 158	21.15
CNB	Park, 2011	CNB	Benign	0.778	0.648	0.869	3.827	0.000	42 / 54	17.57
CNB	Yoon, 2019	CNB	Benign	0.556	0.432	0.673	0.880	0.379	35 / 63	19.28
CNB				0.452	0.318	0.593	-0.663	0.508		
FNA	Choi, 2017	FNA	Benign	0.251	0.205	0.303	-8.146	0.000	74 / 295	17.14
FNA	Hong, 2018	FNA	Benign	0.496	0.434	0.558	-0.127	0.899	123 / 248	17.22
FNA	Na, 2012	FNA	Benign	0.205	0.150	0.274	-6.943	0.000	33 / 161	16.30
FNA	Na, 2015	FNA	Benign	0.386	0.313	0.464	-2.838	0.005	61 / 158	16.77
FNA	Park, 2011	FNA	Benign	0.352	0.278	0.434	-3.471	0.001	50 / 142	16.59
FNA	Yoon, 2019	FNA	Benign	0.500	0.396	0.604	0.000	1.000	43 / 86	15.98
FNA				0.357	0.250	0.480	-2.272	0.023		
Overall				0.398	0.310	0.493	-2.094	0.036		



A

Suspicious for malignancy (P=1.000)

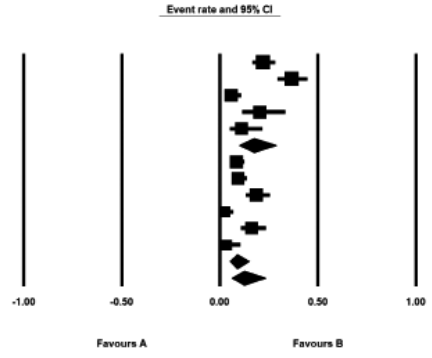
Group by Subgroup within study	Study name	Subgroup within study	Outcome	Event rate	Lower limit	Upper limit	Z-Value	p-Value	Total	Relative weight
CNB	Choi, 2017	CNB	SuspMalig	0.029	0.013	0.062	-8.513	0.000	6 / 210	29.73
CNB	Na, 2012	CNB	SuspMalig	0.068	0.038	0.119	-8.364	0.000	11 / 161	34.45
CNB	Na, 2015	CNB	SuspMalig	0.003	0.000	0.048	-4.066	0.000		6.76
CNB	Yoon, 2019	CNB	SuspMalig	0.095	0.043	0.196	-5.245	0.000	6 / 63	29.05
CNB				0.048	0.022	0.099	-7.467	0.000		
FNA	Choi, 2017	FNA	SuspMalig	0.027	0.014	0.053	-9.988	0.000	8 / 295	20.15
FNA	Hong, 2018	FNA	SuspMalig	0.073	0.046	0.112	-10.409	0.000	18 / 248	23.37
FNA	Na, 2012	FNA	SuspMalig	0.112	0.072	0.170	-8.287	0.000	18 / 161	23.23
FNA	Na, 2015	FNA	SuspMalig	0.025	0.010	0.065	-7.208	0.000	4 / 158	16.02
FNA	Yoon, 2019	FNA	SuspMalig	0.058	0.024	0.132	-6.044	0.000	5 / 86	17.24
FNA				0.054	0.030	0.096	-9.048	0.000		
Overall				0.052	0.032	0.081	-11.728	0.000		



B

Malignant (P=0.420)

Group by Subgroup within study	Study name	Subgroup within study	Outcome	Event rate	Lower limit	Upper limit	Z-Value	p-Value	Total	Relative weight
CNB	Choi, 2017	CNB	Malignant	0.219	0.168	0.280	-7.619	0.000	46 / 210	22.35
CNB	Na, 2012	CNB	Malignant	0.366	0.296	0.444	-3.347	0.001	59 / 161	22.40
CNB	Na, 2015	CNB	Malignant	0.057	0.030	0.106	-8.177	0.000	9 / 158	18.82
CNB	Park, 2011	CNB	Malignant	0.204	0.117	0.332	-4.035	0.000	11 / 54	18.94
CNB	Yoon, 2019	CNB	Malignant	0.111	0.054	0.215	-5.187	0.000	7 / 63	17.50
CNB				0.174	0.100	0.286	-4.754	0.000		
FNA	Choi, 2017	FNA	Malignant	0.085	0.058	0.122	-11.382	0.000	25 / 295	18.86
FNA	Hong, 2018	FNA	Malignant	0.093	0.062	0.136	-10.418	0.000	23 / 248	18.70
FNA	Na, 2012	FNA	Malignant	0.186	0.133	0.254	-7.283	0.000	30 / 161	18.96
FNA	Na, 2015	FNA	Malignant	0.025	0.010	0.065	-7.208	0.000	4 / 158	13.20
FNA	Park, 2011	FNA	Malignant	0.162	0.110	0.232	-7.216	0.000	23 / 142	18.55
FNA	Yoon, 2019	FNA	Malignant	0.035	0.011	0.103	-5.650	0.000	3 / 86	11.73
FNA				0.089	0.051	0.150	-7.622	0.000		
Overall				0.124	0.062	0.232	-5.048	0.000		



C

Supplementary Fig. 2. Forest plot of proportional meta-analysis in initially atypia of undetermined significance/follicular lesion of undetermined significance (AUS/FLUS) nodules. (A) Benign. (B) Suspicious for malignancy. (C) Malignant. CI, confidence interval.