Supplementary

Table S1 Detailed search strategy according to database (14 June 2022)

PubMed search strategy (562 hits)
Years/issue searched: inception to 2022
Search date: 14 June 2022
(ground glass opaci*) AND (adenocarcinoma) AND (patholog* OR histopathog*) Filters: English
Embase search strategy (963 hits)
#1. 'ground glass opacity' OR 'ground glass' OR 'ground glass opacities'
#2. 'adenocarcinoma' OR 'pulmonary adenocarcinoma'
#3. 'pathology' OR 'pathologic' OR 'histopathology' OR 'histologic' OR 'histopathologic'
#4. #1 AND #2 AND #3 AND [english]/lim
Scopus search strategy (663 hits)
Years/issue searched: inception to 2021
Search date: 14 June 2022
((ground glass opaci*) AND (adenocarcinoma) AND (patholog* OR histopathog*) AND (LIMIT-TO (LANGUAGE, "English"))

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Table S2 Eligibility criteria of included studies

Author	Year	Country/ region	Study period	Study design	Number of Participants	Eligibility Criteria					
						Size	CT slice thickness	Synchronous lesions	Demographic factor	Pathologic criteria	Period of persistency
Zhu	2022	China	2018–2019	Retrospective	653	pGGN <30 mm	Less than 1.5 mm				
Sun	2022	China	2007–2015	Retrospective	69	pGGN ≥30 mm			At least 5 years of follow-up		
Fu	2021	China	2011–2015	Retrospective	432			Solitary	No history of malignancy		
Wang	2021	China	2013–2015	Retrospective	273				At least 5 years of follow-up	IA only included	
Sun	2020	China	2012–2015	Retrospective	102		1 mm			IA only included	
Li	2020	China	2015–2019	Retrospective	90		1 mm			AAH excluded	
Chen	2019	Taiwan	2015–2019	Retrospective	59	pGGN ≤20 mm		Solitary	No history of malignancy		
Lee	2019	Korea	2012–2016	Retrospective	44	pGGN <20 mm					
Mao	2019	China	2010–2012	Retrospective	109				No history of malignancy	IA only included	
Wang	2019	China	2016–2017	Retrospective	91				Age between 18 to 44 years, no history of malignancy		
Ye	2018	China	2008–2014	Retrospective	534	pGGN ≤30 mm	1 mm			AAH excluded	
Moon	2018	Korea	2010–2017	Retrospective	106						
Li	2018	China	2013–2016	Retrospective	167			Solitary			
Sawada	2009	Japan	2000–2005	Retrospective	63	pGGN ≤30 mm	1 mm from 2001 and 2 mm before				
Yamaguchi	2015	Japan	2006–2012	Retrospective	47	pGGN ≤20 mm	1 mm				
Ichinose	2014	Japan	2008–2010	Retrospective	114	pGGN ≤20 mm	1 mm slice thickness				
Lim	2013	Korea	2003–2008	Retrospective	46	pGGN >10 mm			At least 3 years of follow-up		persistent
Cho	2013	Korea	2004–2009	Retrospective	46	pGGN ≤30 mm			At least 2 years of follow-up		
Eguchi	2014	Japan	1998–2013	Retrospective	33		1.25 mm		At least 2 years of follow-up		
Liang	2015	China	2010–2014	Retrospective	74	5 mm ≤ pGGN ≤30 mm					Persistent
Kakinuma	2016	Japan	2009–2011	Multicenter prospective	35	pGGN ≤30 mm	Less than 1.25 mm				At least 3 months of persistency
Fournel	2017	France	2008–2014	Retrospective	27	pGGN ≤30 mm		Less than five			
Zha	2016	China	2008–2014	Retrospective	553	pGGN ≤30 mm			No history of malignancy		
Kitami	2016	Japan	2001–2014	Retrospective	78	pGGN ≤30 mm					At least 3 months of persistency

AAH, Atypical adenomatous hyperplasia; CT, computed tomography; IA, invasive adenocarcinoma; pGGN, pure ground glass nodule.

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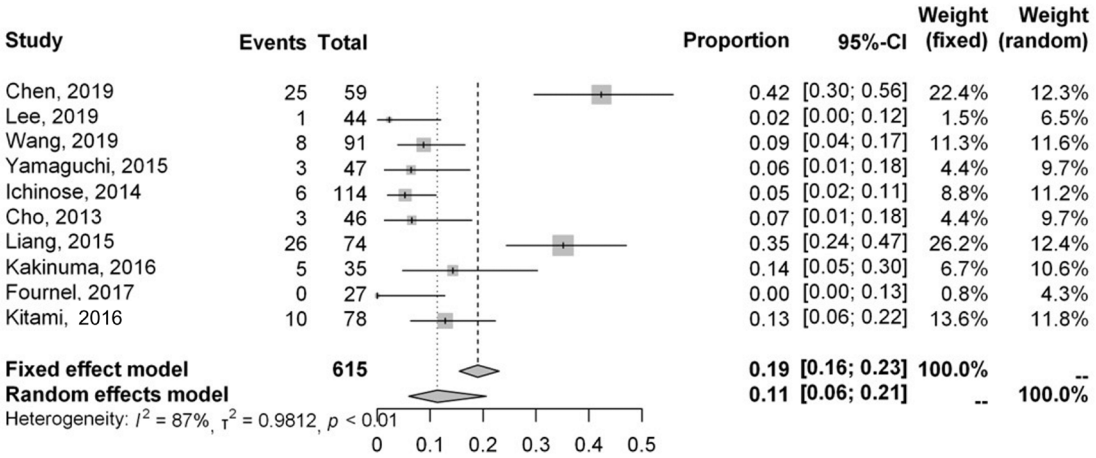

Figure S1 Forest plot of meta-analysis to estimate the proportion of atypical adenomatous hyperplasia among resected pure ground glass pulmonary lesions.

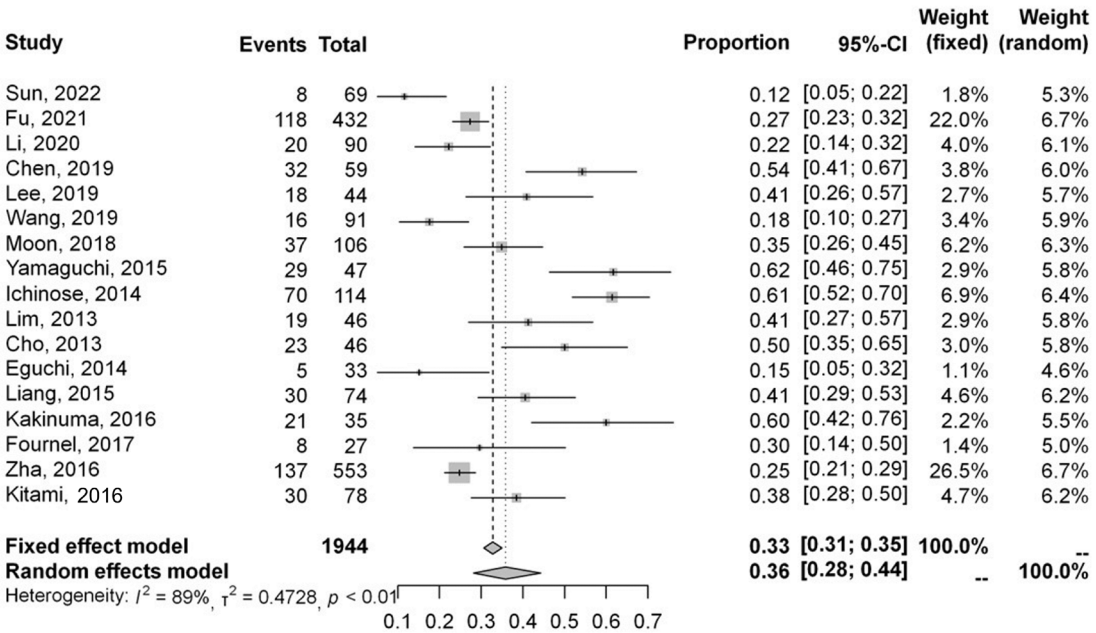

Figure S2 Forest plot of meta-analysis to estimate the proportion of adenocarcinoma in situ among resected pure ground glass pulmonary lesions.

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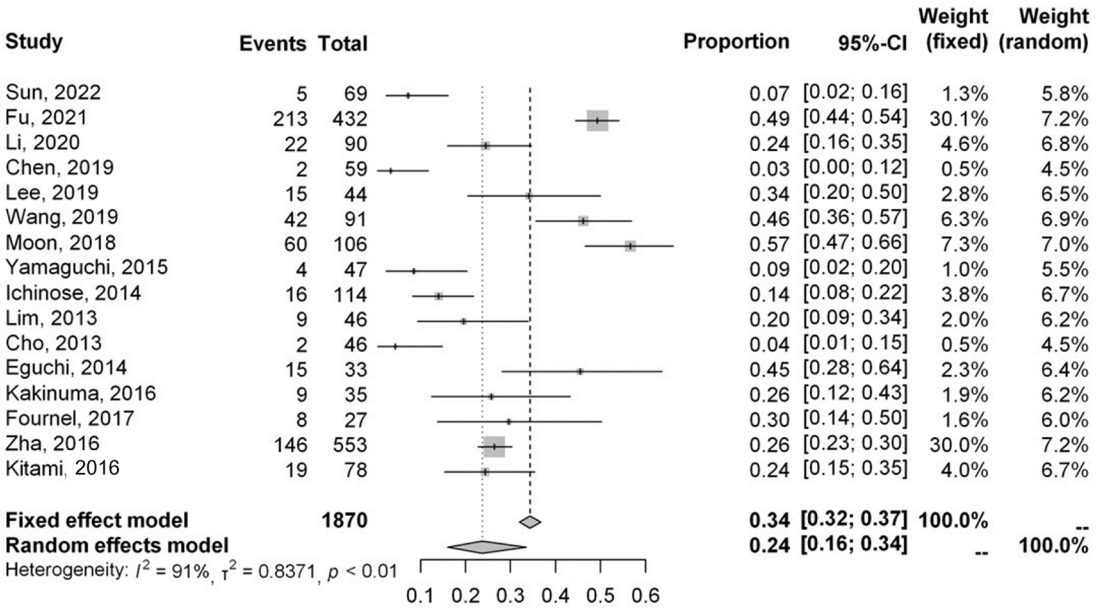

Figure S3 Forest plot of meta-analysis to estimate the proportion of minimally invasive adenocarcinoma among resected pure ground glass pulmonary lesions.

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