

Table SI. Search strategy for the PubMed database.

No.	Search terms
#1	TP53 [Title/Abstract]
#2	P53 [Title/Abstract]
#3	#1 OR #2
#4	lung cancer [Title/Abstract]
#5	lung adenocarcinoma [Title/Abstract]
#6	#4 OR #5
#7	EGFR [Title/Abstract]
#8	#3 AND #6 AND #7

Table SII. Search strategy for the Embase database.

No.	Search term
#1	'tp53 gene'/exp
#2	'protein p53'/exp
#3	#1 OR #2
#4	'lung cancer'/exp
#5	'lung adenocarcinoma'/exp
#6	#4 OR #5
#7	'egfr gene'/exp
#8	#3 AND #6 AND #7

Table SIII. Search strategy for the Cochrane database.

No.	Search term
#1	TP53
#2	p53
#3	#1 OR #2
#4	EGFR
#5	Lung Neoplasms (MeSH)
#6	#3 AND #4 AND #5

Table SIV. Quality appraisal of the included studies using the Newcastle-Ottawa scale.

First author, year	Selection	Comparability	Outcome	Final score	Quality	(Ref.)
CLCGP, 2013	3	1	2	6	Medium	(43)
Molina-Vila, 2014	3	2	2	7	High	(44)
Bria, 2015	3	1	2	6	Medium	(45)
Canale, 2016	3	2	3	8	High	(46)
VanderLaan, 2017	3	1	3	7	High	(47)
Labb, 2017	3	2	2	7	High	(32)
Tsui, 2018	3	1	2	6	Medium	(20)
Aisner, 2018	3	2	3	8	High	(48)
Aggarwal, 2018	3	2	3	8	High	(49)
Yu, 2018	3	2	3	8	High	(50)
Kim, 2019	3	1	3	7	High	(51)
Chang, 2019	3	1	3	7	High	(52)
Hou, 2019	3	2	3	8	High	(53)
Rachiglio, 2019	3	1	3	7	High	(54)
Canale, 2020	3	2	3	7	High	(41)
Cheng, 2020	3	1	3	7	High	(55)
Li, 2021	3	2	3	8	High	(56)
Steendam, 2020	4	1	3	8	High	(57)
Yang, 2021	3	1	2	6	Medium	(58)
Yu, 2021	4	2	3	9	High	(19)
Wang, 2021	4	1	2	7	High	(42)
Tan, 2021	3	1	3	7	High	(40)
Wang, 2021	4	1	3	8	High	(59)
Roeper, 2022	3	1	3	7	High	(60)