

Table S1 Search Strategies

Sources searched : PubMed, MEDLINE, Embase, Web of Science, and Cochrane Library. Search strategy: search date was from the inception to December 2020

1.1 PubMed search strategy

1. "Adenocarcinoma of Lung" (Mesh)
2. Adenocarcinoma of Lung (Title/Abstract)
3. Lung Adenocarcinoma (Title/Abstract)
4. Lung Adenocarcinomas (Title/Abstract)
5. Adenocarcinoma, Lung (Title/Abstract)
6. Adenocarcinomas, Lung (Title/Abstract)
7. Pulmonary Adenocarcinoma (Title/Abstract)
8. Pulmonary Adenocarcinomas (Title/Abstract)
9. Adenocarcinoma, Pulmonary (Title/Abstract)
10. Adenocarcinomas, Pulmonary (Title/Abstract)
11. "Carcinoma, Non-Small-Cell Lung" (Mesh)
12. Carcinoma, Non Small Cell Lung (Title/Abstract)
13. Carcinoma*, Non-Small-Cell Lung (Title/Abstract)
14. Lung Carcinoma*, Non-Small-Cell (Title/Abstract)
15. Non-Small Cell Lung Carcinoma (Title/Abstract)
16. Non-Small-Cell Lung Carcinomas (Title/Abstract)
17. Nonsmall Cell Lung Cancer (Title/Abstract)
18. Non-Small-Cell Lung Carcinoma (Title/Abstract)
19. Non Small Cell Lung Carcinoma (Title/Abstract)
20. Carcinoma, Non-Small Cell Lung (Title/Abstract)
21. Non-Small Cell Lung Cancer (Title/Abstract)
22. Non-Small Cell Lung Neoplasm (Title/Abstract)
23. Non-Small Cell Lung Tumor (Title/Abstract)
24. NSCLC (Title/Abstract)
25. 1 OR 2 OR 3 OR 4 OR 5 OR 6 OR 7 OR 8 OR 9 OR 10 OR 11 OR 12 OR 13 OR 14 OR 15 OR 16 OR 17 OR 18 OR 19 OR 20 OR 21 OR 22 OR 23 OR 24
26. "Postoperative Period" (Mesh)
27. Period, Postoperative (Title/Abstract)
28. Periods, Postoperative (Title/Abstract)
29. Postoperative Periods (Title/Abstract)
30. 26 OR 27 OR 28 OR 29
31. "Drug Therapy" (Mesh)
32. Therapy, Drug (Title/Abstract)
33. Drug therapies (Title/Abstract)
34. Pharmacotherapy (Title/Abstract)
35. Pharmacotherapies (Title/Abstract)
36. Chemotherapy (Title/Abstract)
37. 31 OR 32 OR 33 OR 34 OR 35 OR 36
38. 25 AND 30 AND 37

1.2 MEDLINE search strategy

1. Adenocarcinoma of Lung/
2. (Lung Adenocarcinoma).ti,ab,kf
3. (Lung Adenocarcinomas).ti,ab,kf
4. (Adenocarcinoma, Lung).ti,ab,kf
5. (Adenocarcinomas, Lung).ti,ab,kf
6. (Pulmonary Adenocarcinoma).ti,ab,kf
7. (Pulmonary Adenocarcinomas).ti,ab,kf
8. (Adenocarcinoma, Pulmonary).ti,ab,kf
9. (Adenocarcinomas, Pulmonary).ti,ab,kf
10. non small cell lung cancer/
11. (non small cell lung cancer).ti,ab,kf
12. (non-small cell lung cancer).ti,ab,kf
13. (carcinoma, non small cell lung).ti,ab,kf
14. (carcinoma*, non-small-cell lung).ti,ab,kf
15. (lung carcinoma*, non-small-cell).ti,ab,kf
16. (non-small cell lung carcinoma).ti,ab,kf
17. (non-small-cell lung carcinomas*.ti,ab,kf
18. (nonsmall cell lung cancer).ti,ab,kf
19. (non-small-cell lung carcinoma).ti,ab,kf
20. (non small cell lung carcinoma). ti,ab,kf
21. (carcinoma, non-small cell lung).ti,ab,kf
22. (non-small cell lung neoplasm).ti,ab,kf
23. (non-small cell lung tumor).ti,ab,kf
24. (NSCLC).ti,ab,kf
25. 1 OR 2 OR 3 OR 4 OR 5 OR 6 OR 7 OR 8 OR 9 OR 10 OR 11 OR 12 OR 13 OR 14 OR 15 OR 16 OR 17 OR 18 OR 19 OR 20 OR 21 OR 22 OR 23 OR 24
26. Postoperative Period/
27. (Period, Postoperative).ti,ab,kf
28. (Periods, Postoperative).ti,ab,kf
29. (Postoperative Periods).ti,ab,kf
30. 26 OR 27 OR 28 OR 29
31. Drug Therapy/
32. (Therapy, Drug).ti,ab,kf
33. (Drug therapies).ti,ab,kf
34. (Pharmacotherapy).ti,ab,kf
35. (Pharmacotherapies).ti,ab,kf
36. (chemotherapy).ti,ab,kf
37. 31 OR 32 OR 33 OR 34 OR 35 OR 36
38. 25 AND 30 AND 37

ti, title; ab, abstract; kf, key field.

1.3 Embase search strategy

1. 'Lung Adenocarcinoma'/exp
2. 'Lung Adenocarcinoma':ti,ab,kw
3. 'Lung Adenocarcinomas':ti,ab,kw
4. 'Adenocarcinoma, Lung':ti,ab,kw
5. 'Adenocarcinomas, Lung':ti,ab,kw
6. 'Pulmonary Adenocarcinoma':ti,ab,kw
7. 'Pulmonary Adenocarcinomas':ti,ab,kw
8. 'Adenocarcinoma, Pulmonary':ti,ab,kw
9. 'Adenocarcinomas, Pulmonary':ti,ab,kw
10. 'Non Small Cell Lung Cancer'/exp
11. 'Non Small Cell Lung Cancer':ti,ab,kw
12. 'Non-Small Cell Lung Cancer':ti,ab,kw
13. 'Carcinoma, Non Small Cell Lung':ti,ab,kw
14. 'Carcinoma*, Non-Small-Cell Lung':ti,ab,kw
15. 'Lung Carcinoma*, Non-Small-Cell':ti,ab,kw
16. 'Non-Small Cell Lung Carcinoma':ti,ab,kw
17. 'Non-Small-Cell Lung Carcinomas':ti,ab,kw
18. 'Nonsmall Cell Lung Cancer':ti,ab,kw
19. 'Non-Small-Cell Lung Carcinoma':ti,ab,kw
20. 'Non Small Cell Lung Carcinoma':ti,ab,kw
21. 'Carcinoma, Non-Small Cell Lung':ti,ab,kw
22. 'Non-Small Cell Lung Neoplasm':ti,ab,kw
23. 'Non-Small Cell Lung Tumor':ti,ab,kw
24. 'NSCLC':ti,ab,kw
25. 1 OR 2 OR 3 OR 4 OR 5 OR 6 OR 7 OR 8 OR 9 OR 10 OR 11 OR 12 OR 13 OR 14 OR 15 OR 16 OR 17 OR 18 OR 19 OR 20 OR 21 OR 22 OR 23 OR 24
26. 'Postoperative Period'/exp
27. 'Period, Postoperative':ti,ab,kw
28. 'Periods, Postoperative':ti,ab,kw
29. 'Postoperative Periods':ti,ab,kw
30. 26 OR 27 OR 28 OR 29
31. 'Drug Therapy'/exp
32. 'Therapy, Drug':ti,ab,kw
33. 'Drug therapies':ti,ab,kw
34. 'Pharmacotherapy':ti,ab,kw
35. 'Pharmacotherapies':ti,ab,kw
36. 'Chemotherapy':ti,ab,kw
37. 31 OR 32 OR 33 OR 34 OR 35 OR 36
38. 25 AND 30 AND 37

ti, title; ab, abstract; kw, keywords.

1.4 Web of Science search strategy

- | | |
|---|----------------|
| 1. Lung Adenocarcinoma | Subject search |
| 2. Lung Adenocarcinomas | Subject search |
| 3. Adenocarcinoma, Lung | Subject search |
| 4. Adenocarcinomas, Lung | Subject search |
| 5. Pulmonary Adenocarcinoma | Subject search |
| 6. Pulmonary Adenocarcinomas | Subject search |
| 7. Adenocarcinoma, Pulmonary | Subject search |
| 8. Adenocarcinomas, Pulmonary | Subject search |
| 9. Carcinoma, Non Small Cell Lung | Subject search |
| 10. Carcinoma*, Non-Small-Cell Lung | Subject search |
| 11. Lung Carcinoma*, Non-Small-Cell | Subject search |
| 12. Non-Small Cell Lung Carcinoma | Subject search |
| 13. Non-Small-Cell Lung Carcinomas | Subject search |
| 14. Nonsmall Cell Lung Cancer | Subject search |
| 15. Non-Small-Cell Lung Carcinoma | Subject search |
| 16. Non Small Cell Lung Carcinoma | Subject search |
| 17. Carcinoma, Non-Small Cell Lung | Subject search |
| 18. Non-Small Cell Lung Cancer | Subject search |
| 19. Non-Small Cell Lung Neoplasm | Subject search |
| 20. Non-Small Cell Lung Tumor | Subject search |
| 21. NSCLC | Subject search |
| 22. 1 OR 2 OR 3 OR 4 OR 5 OR 6 OR 7 OR 8 OR 9 OR 10 OR 11 OR 12 OR 13 OR 14 OR 15 OR 16 OR 17 OR 18 OR 19 OR 20 OR 21 | |
| 23. Postoperative Period | Subject search |
| 24. Period, Postoperative | Subject search |
| 25. Periods, Postoperative | Subject search |
| 26. Postoperative Periods | Subject search |
| 27. 23 OR 24 OR 25 OR 26 | |
| 28. Drug Therapy | Subject search |
| 29. Therapy, Drug | Subject search |
| 30. Drug therapies | Subject search |
| 31. Pharmacotherapy | Subject search |
| 32. Pharmacotherapies | Subject search |
| 33. Chemotherapy | Subject search |
| 34. 28 OR 29 OR 30 OR 31 OR 32 OR 33 | |
| 35. 22 AND 27 AND 34 | |

1.5 Cochrane Library search strategy

1. Lung Adenocarcinoma: Title,Abstract,Keywords
2. Lung Adenocarcinomas: Title,Abstract,Keywords
3. Adenocarcinoma, Lung: Title,Abstract,Keywords
4. Adenocarcinomas, Lung: Title,Abstract,Keywords
5. Pulmonary Adenocarcinoma
6. Pulmonary Adenocarcinomas
7. Adenocarcinoma, Pulmonary
8. Adenocarcinomas, Pulmonary
9. 'Carcinoma, Non-Small-Cell Lung':Mesh
10. Carcinoma, Non Small Cell Lung: Title,Abstract,Keywords
11. Carcinoma*, Non-Small-Cell Lung: Title,Abstract,Keywords
12. Lung Carcinoma*, Non-Small-Cell: Title,Abstract,Keywords
13. Non-Small Cell Lung Carcinoma: Title,Abstract,Keywords
14. Non-Small-Cell Lung Carcinomas: Title,Abstract,Keywords
15. Nonsmall Cell Lung Cancer: Title,Abstract,Keywords
16. Non-Small-Cell Lung Carcinoma: Title,Abstract,Keywords
17. Non Small Cell Lung Carcinoma: Title,Abstract,Keywords
18. Carcinoma, Non-Small Cell Lung: Title,Abstract,Keywords
19. Non-Small Cell Lung Cancer: Title,Abstract,Keywords
20. Non-Small Cell Lung Neoplasm: Title,Abstract,Keywords
21. Non-Small Cell Lung Tumor: Title,Abstract,Keywords
22. NSCLC: Title,Abstract,Keywords
23. 1 OR 2 OR 3 OR 4 OR 5 OR 6 OR 7 OR 8 OR 9 OR 10 OR 11 OR 12 OR 13 OR 14 OR 15 OR 16 OR 17 OR 18 OR 19 OR 20 OR 21 OR 22
24. 'Postoperative Period' :Mesh
25. Period, Postoperative: Title,Abstract,Keywords
26. Periods, Postoperative: Title,Abstract,Keywords
27. Postoperative Periods: Title,Abstract,Keywords
28. 24 OR 25 OR 26 OR 27
29. 'Carcinoma, Non-Small-Cell Lung' :Mesh
30. Therapy, Drug: Title,Abstract,Keywords
31. Drug therapies: Title,Abstract,Keywords
32. Pharmacotherapy: Title,Abstract,Keywords
33. Pharmacotherapies: Title,Abstract,Keywords
34. chemotherapy: Title,Abstract,Keywords
35. 29 OR 30 OR 31 OR 32 OR 33 OR 34
36. 23 AND 28 AND 35

Table S2 Main characteristics of the included studies (n=12)

Characteristics	Number of studies (%)	Patients (%)
Total	12 (100.00)	15,678 (100.00)
Year of publication		
2008	1 (8.33)	134 (0.85)
2010	1 (8.33)	99 (0.63)
2016	1 (8.33)	10,587 (67.53)
2017	2 (16.67)	1,304 (8.32)
2018	4 (33.33)	1,875 (11.96)
2019	1 (8.33)	212 (1.35)
2020	2 (16.67)	1,467 (9.36)
Number of cases		
<300	4 (33.33)	585 (3.73)
≥300	8 (66.67)	15,093 (96.27)
Research region		
China	7 (58.33)	4,390 (28.00)
United States	3 (25.00)	10,820 (69.01)
Other	2 (16.67)	468 (2.99)
Histology type		
NSCLC	4 (33.33)	11,222 (71.58)
ADC	7 (58.33)	4,096 (26.13)
SCC	1 (8.33)	360 (2.30)
Follow-up period (month)		
<53	6 (50.00)	12,689 (80.94)
≥53	6 (50.00)	2,989 (19.06)
Study end points		
OS	11 (91.67)	14,702 (80.54)
DFS	9 (75.00)	3,552 (19.46)
Quality score		
<8	4 (33.33)	12,293 (78.41)
≥8	8 (66.67)	3,385 (21.59)

NSCLC, non-small cell lung cancer; ADC, adenocarcinoma; SCC, squamous cell carcinoma; OS, overall survival; DFS, disease-free survival.

Table S3 Quality assessment of the included studies (n=12)

No.	Author	Representativeness of population	Nonexposed cohort	Ascertainment of exposure	Outcome not present at start of study	Appropriate confounding measurement and account	Sufficient measurement of outcomes	Completeness of follow-up	Quality score
1	Morgensztern [2016]	0	1	1	1	2	1	1	7
2	Xu [2018]	0	1	1	1	2	1	2	8
3	Strauss [2008]	0	1	1	1	2	1	2	8
4	Qian [2017]	0	1	1	1	2	1	1	7
5	Butts [2010]	0	1	1	1	2	1	2	8
6	Wang [2018]	0	1	1	1	2	1	1	7
7	Wang [2019]	0	1	1	1	2	1	2	8
8	Chen [2020]	0	1	1	1	2	1	2	8
9	Jang [2017]	0	1	1	1	2	1	1	7
10	Ito [2020]	0	1	1	1	2	1	2	8
11	Cao [2018]	0	1	1	1	2	1	2	8
12	Chen [2018]	0	1	1	1	2	1	2	8

Table S4 The publication bias assessment with different tests for OS and DFS

Publication bias	Begg's P value	Egger's P value
OS	0.436	0.379
DFS	1.000	0.481

DFS, disease-free survival; OS, overall survival.

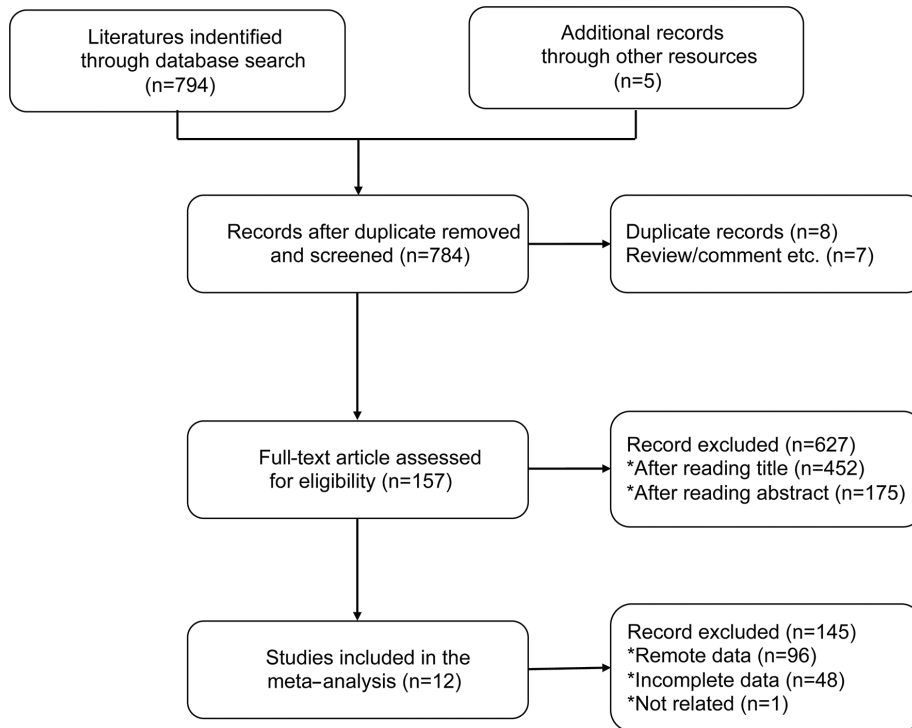


Figure S1 Literature Search of Eligible Studies.

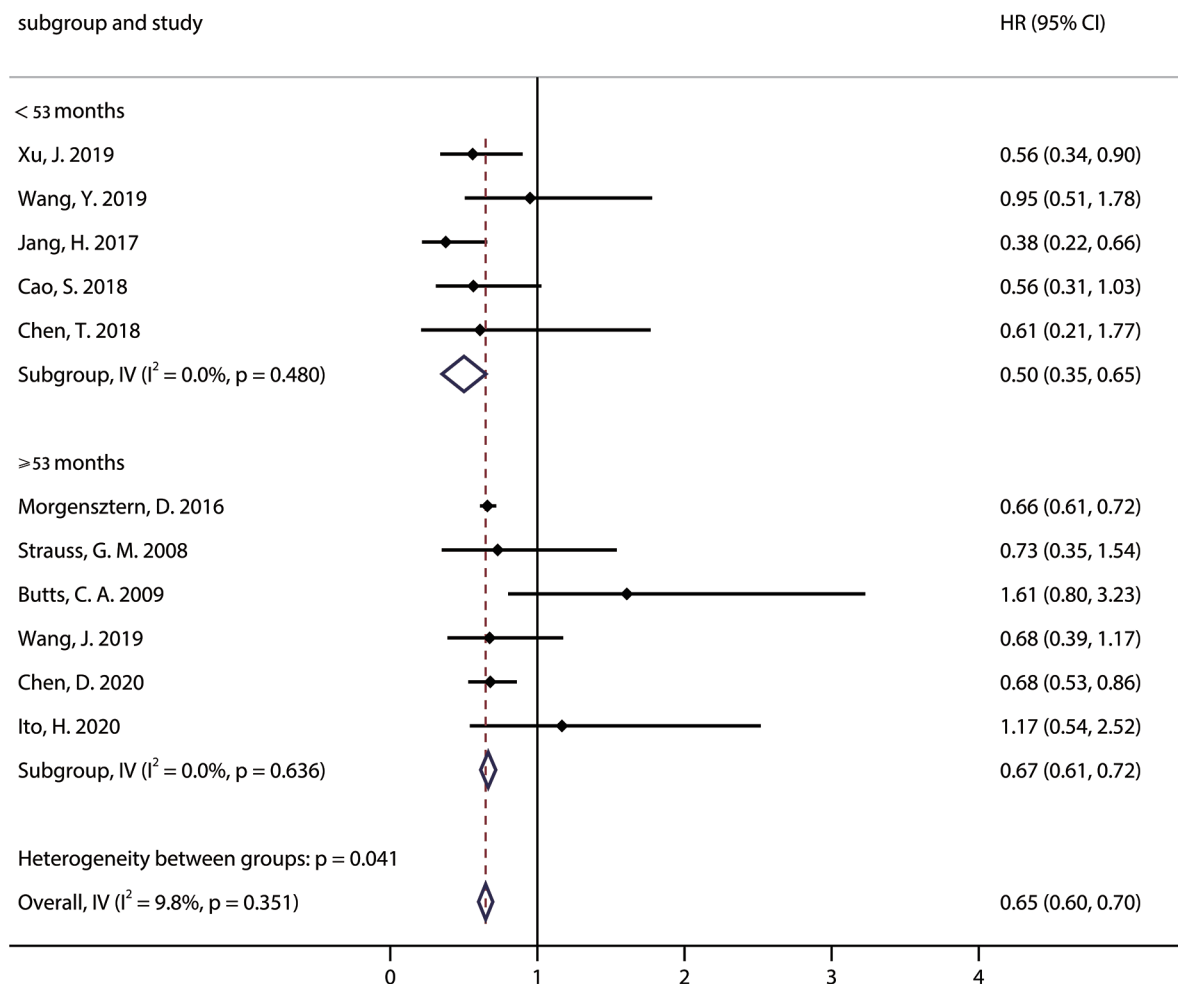


Figure S2 Subgroup Analyses of the Associations between Follow-Up Periods and Overall Survival (OS).