

Appendix 2

Search documentation

Question at issue

Does lobectomy by video assisted thoracoscopic approach for non-small cell lung cancer result in equivalent 5-years survival, better quality of life, less pain, better shoulder function as compared to open thoracotomy?

Patients/Problem, Intervention, Comparison, Outcome (PICO)

Patients/Problem: non-small cell lung cancer (NSCLC)

Intervention: VATS lobectomy

Comparison: lobectomy by open thoracotomy

Outcome: 5-years survival, quality of life, pain, shoulder function

1. Inclusion criteria

Randomized controlled trials, meta-analyses, observational studies

Languages: English, Swedish, Norwegian and Danish

(Search period: til October 2013)

Two medical information specialists performed systematic literature searches in the data bases: PubMed, Cochrane Library, Web of Science and Embase. Altogether 849 references were identified. After sorting out duplicates, 534 references were assessed as abstracts. 486 references were sorted out, that did not meet the PICO or other inclusion criteria. After assessment of the remaining 48 articles in full text by the project group 27 were excluded. Twenty articles, of which 7 were metaanalyses, remained for assessment in full text by the HTA-group.

PubMed, October 2013

Number of results: 306

non-small cell lung cancer OR nonsmall cell lung cancer OR NSCLC OR Non-small cell lung carcinoma OR lung cancer OR lung neoplasm OR lung neoplasms
AND

thoracoscopic lobectomy OR video-assisted lobectomy OR minimally invasive lobectomy OR (VATS AND lobectomy*) OR (video-assisted thoracoscopic surgery AND lobectomy*) OR (video-assisted thoracic surgery AND lobectomy*)
AND

thoracotomy OR thoracotomies OR open lobectomy
AND

pain OR lung function OR air leak OR shoulder OR quality of life OR life quality OR life qualities OR QoL OR survival OR survival time OR mortality

Embase, October 2013

Number of results: 215

'lung non small cell cancer'/syn OR nsclc

AND

'video assisted thoracoscopic surgery'/syn OR 'VATS'

AND

'open lobectomy' OR 'lung lobectomy'/syn OR 'thoracotomy'/syn

AND

'quality of life'/syn OR qol OR 'pain'/syn OR 'survival'/syn OR 'shoulder'/syn OR 'lung function'/syn OR 'survival'/syn

Web of Science, October 2013

Number of results: 317

Topic: non-small cell lung cancer OR non-small cell lung cancer OR NSCLC OR non-small cell lung carcinoma OR lung cancer OR lung neoplasm*

AND

Topic: thoracoscopic lobectomy OR video-assisted lobectomy OR (VATS AND lobectomy*) OR ((video-assisted thorac* surgery) AND lobectomy*)

AND

Topic: thoracotom* OR open lobectomy*

AND

Topic: pain OR ache OR aches OR air leak OR lung function OR shoulder OR quality of life OR life quality OR life qualities OR QoL OR survival time OR survival OR mortality

Cochrane, October 2013

Number of results: 11 (search in title, abstracts and keywords)

No Cochrane Reviews

(lung cancer OR lung carcinoma OR lung neoplasm*)

and

(VATS or video-assisted thoracic* surgery OR thoracoscopic lobectomy OR video-assisted lobectomy)

AND

(thoracotomy* or open lobectomy)

AND

(pain* OR shoulder OR quality of life OR QoL OR life quality OR lung function OR survival)

Additional search:

www.Clinicaltrials.gov

VATS AND thoracotomy AND lung cancer