Appendix 1: Search strategies

HPV and Lung Cancer: A systematic review and meta-analysis

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Authors: Julia Karnosky; Wolfgang Dietmaier; Helge Knuettel; Viola Freigang; Myriam Koch; Franziska Koll; Florian Zeman, Christian Schulz

Searches as last run on 06 February 2020.

## Embase (Ovid)

Database: Embase <1974 to 2020 February 05>

Search Strategy:

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1 exp lung cancer/

2 ((lung\* or pulm\* or bronch\* or alveol\*) adj3 (cancer\* or carcinoma\* or adenocarcinoma\* or neoplas\* or malignan\* or tumor\* or tumour\* or blastoma\* or dysplas\* or squamous or scc\* or oat cell or small cell or non-small cell or nonsmall cell)).ti,ab,kw.

3 multiple pulmonary nodule\*.ti,ab,kw.

4 pancoast\*.ti,ab,kw.

5 (nsclc or sclc).ti,ab,kw.

6 or/1-5

7 exp papillomaviridae/

8 exp papillomavirus infection/

9 human papillomavirus dna test/

10 (papillomavir\* or papilloma vir\* or alphapapillomavir\* or alphapapilloma vir\* or hpv).ti,ab,kw.

11 or/7-10

12 6 and 11

## MEDLINE (Ovid)

Database: Ovid MEDLINE(R) ALL <1946 to February 05, 2020>

Search Strategy:

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1 exp Lung Neoplasms/

2 ((lung\* or pulm\* or bronch\* or alveol\*) adj3 (cancer\* or carcinoma\* or adenocarcinoma\* or neoplas\* or malignan\* or tumor\* or tumour\* or blastoma\* or dysplas\* or squamous or scc\* or oat cell or small cell or non-small cell or nonsmall cell)).ti,ab,kf.

3 multiple pulmonary nodule\*.ti,ab,kf.

4 pancoast\*.ti,ab,kf.

5 (nsclc or sclc).ti,ab,kf.

6 or/1-5

7 exp papillomaviridae/

8 Papillomavirus Infections/

9 Human Papillomavirus DNA Tests/

10 (papillomavir\* or papilloma vir\* or alphapapillomavir\* or alphapapilloma vir\* or hpv).ti,ab,kf.

11 or/7-10

12 6 and 11

## Cochrane Library

ID Search

#1 ((lung\* or pulm\* or bronch\* or alveol\*) near/3 (cancer\* or carcinoma\* or adenocarcinoma\* or neoplas\* or malignan\* or tumor\* or tumour\* or blastoma\* or dysplas\* or squamous or scc\* or oat next cell or small next cell or non-small next cell or nonsmall next cell)):ti,ab,kw

#2 (multiple next pulmonary next nodule\* or pancoast\* or nsclc or sclc):ti,ab,kw

#3 #1 or #2

#4 (papillomavir\* or papilloma next vir\* or alphapapillomavir\* or alphapapilloma next vir\* or hpv):ti,ab,kw

#5 #3 and #4

## Science Citation Index Expanded (SCI-EXPANDED; Web of Science)

TS=((lung\* or pulm\* or bronch\* or alveol\*) NEAR/4 (cancer\* or carcinoma\* or adenocarcinoma\* or neoplas\* or malignan\* or tumor\* or tumour\* or blastoma\* or dysplas\* or squamous or scc\* or "oat cell" or "small cell" or "non-small cell" or "nonsmall cell"))

TS=("multiple pulmonary nodule\*" or pancoast\* or nsclc or sclc)

#1 OR #2

TS=(papillomavir\* or "papilloma vir\*" or alphapapillomavir\* or "alphapapilloma vir\*" or hpv)

#3 and #4

## Google Scholar

Search terms (field \_Keywords\_ in program \_Publish or Perish\_):

lung|pulmonary|bronchial|alveolar cancer|carcinoma|adenocarcinoma|neoplasm|malignant|tumor|tumour|blastoma|dysplasia|squamous|scc|"oat cell"|"small cell"|"non-small cell"|"non small cell"|nsclc|sclc papillomavirus|hpv|papillomaviridae|alphapapillomavirus

## WHO's International Clinical Trials Registry Platform

lung\* AND papillomavir\* OR lung\* AND papilloma-vir\* OR lung\* AND hpv OR pulm\* AND papillomavir\* OR pulm\* AND papilloma-vir\* OR pulm\* AND hpv OR bronch\* AND papillomavir\* OR bronch\* AND papilloma-vir\* OR bronch\* AND hpv OR alveol\* AND papillomavir\* OR alveol\* AND papilloma-vir\* OR alveol\* AND hpv

## ClinicalTrials.gov

(lung OR pulmonary OR bronchial OR alveolar OR nsclc OR sclc) AND (papillomavirus OR hpv)

## EU Clinical Trials Register

(lung\* OR pulm\* OR bronch\* OR alveol\* OR nsclc OR sclc) AND (papillomavir\* OR hpv)