

## **S1 Appendix. Search strategies for PubMed, EMBASE and the Cochrane Library.**

### ***General:***

Reference date: 21-08-2012

No language or preset filters used

Filters in Pubmed and EMBASE: Haynes et al. and Wilczynski et al. [21,22].

Mesh term were first mapped and subsequently added to syntax.

### ***PubMed:***

(sensitivity\*[Title/Abstract] OR sensitivity and specificity[MeSH Terms] OR  
diagnosis\*[Title/Abstract] OR diagnosis[MeSH:noexp] OR diagnostic \*[MeSH:noexp] OR  
diagnosis, differential[MeSH:noexp] OR diagnosis[Subheading:noexp]) AND (c-  
reactive[tiab] OR reactive protein[tiab] OR CRP[tiab] OR C-Reactive Protein[Mesh]) AND  
(Pneumonie[tiab] OR Pneumonia[tiab] OR Pneumoniae[tiab] OR Pneumonitis[tiab] OR  
Pneumonias[tiab] OR Airway infection[tiab] OR Airway infections[tiab] OR Airway  
inflammation[tiab] OR Airway inflammations[tiab] OR Lower respiratory tract infection[tiab]  
OR Lower respiratory tract infections[tiab] OR Lower respiratory infection[tiab] OR Lower  
respiratory infections[tiab] OR Lower airway infection[tiab] OR Lower airway  
infections[tiab] OR Lower airway inflammation[tiab] OR Respiratory infection[tiab] OR  
Respiratory infections[tiab] OR Respiratory inflammation[tiab] OR Respiratory  
inflammations[tiab] OR Respiratory tract infection[tiab] OR Respiratory tract infections[tiab]  
OR Respiratory tract inflammation[tiab] OR Respiratory tract inflammations[tiab] OR  
LRTI[tiab] OR LRTIS[tiab] OR RTI[tiab] OR RTIS[tiab] OR respiratory tract illness[tiab]  
OR Pneumonia[Mesh] OR Respiratory Tract Infections[Mesh])

### ***EMBASE:***

('pneumonie':ab,ti OR 'pneumonia':ab,ti OR 'pneumoniae':ab,ti OR 'pneumonitis':ab,ti OR 'pneumonias':ab,ti OR 'airway infection':ab,ti OR 'airway infections':ab,ti OR 'airway inflammation':ab,ti OR 'airway inflammations':ab,ti OR 'lower respiratory tract infection':ab,ti OR 'lower respiratory tract infections':ab,ti OR 'lower respiratory infection':ab,ti OR 'lower respiratory infections':ab,ti OR 'lower airway infection':ab,ti OR 'lower airway infections':ab,ti OR 'lower airway inflammation':ab,ti OR 'respiratory infection':ab,ti OR 'respiratory infections':ab,ti OR 'respiratory inflammation':ab,ti OR 'respiratory inflammations':ab,ti OR 'respiratory tract infection':ab,ti OR 'respiratory tract infections':ab,ti OR 'respiratory tract inflammation':ab,ti OR 'respiratory tract inflammations':ab,ti OR 'lrti':ab,ti OR 'lrtis':ab,ti OR 'rti':ab,ti OR 'rtis':ab,ti OR 'respiratory tract illness':ab,ti OR 'pneumonia'/exp OR 'respiratory tract infections'/exp) AND ('specificity' OR predict\* OR 'diagnosis':lnk) AND ('c-reactive':ab,ti OR 'reactive protein':ab,ti OR 'crp':ab,ti OR 'c-reactive protein'/exp)

***Cochrane:***

#1:(pneumonie:ab,ti) OR (pneumonia:ab,ti) OR (pneumoniae:ab,ti) OR (pneumonitis:ab,ti) OR (pneumonias:ab,ti) OR (airway infection:ab,ti) OR (airway infections:ab,ti) OR (airway inflammation:ab,ti) OR (airway inflammations:ab,ti) OR (lower respiratory tract infection:ab,ti) OR (lower respiratory tract infections:ab,ti) OR (lower respiratory infection:ab,ti) OR (lower respiratory infections:ab,ti) OR (lower airway infection:ab,ti) OR (lower airway infections:ab,ti) OR (lower airway inflammation:ab,ti) OR (respiratory infection:ab,ti) OR (respiratory infections:ab,ti) OR (respiratory inflammation:ab,ti) OR (respiratory inflammations:ab,ti) OR (respiratory tract infection:ab,ti) OR (respiratory tract infections:ab,ti) OR (respiratory tract inflammation:ab,ti) OR (respiratory tract inflammations:ab,ti) OR (lrti:ab,ti) OR (lrtis:ab,ti) OR (rti:ab,ti) OR (rtis:ab,ti) OR (respiratory tract illness:ab,ti)

#2: (pneumonia[Mesh])

#3: (respiratory tract infections[Mesh]))

#4: (C-Reactive Protein[Mesh])

#5: (c-reactive:ab,ti) OR (reactive protein:ab,ti) OR (CRP:ab,ti) OR

Final syntax cochrane: (#1 OR #2 OR #3) AND (#4 OR #5)