# Supplementary File 3

**Search strategy**

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| 1. Pubmed |
| #1 Esophageal Neoplasms [Mesh Terms]  #2 Esophageal Neoplasm [Title/Abstract]  #3 Neoplasm, Esophageal [Title/Abstract]  #4 Esophagus Neoplasm [Title/Abstract]  #5 Esophagus Neoplasms [Title/Abstract]  #6 Neoplasms, Esophageal [Title/Abstract]  #7 Cancer of Esophagus [Title/Abstract]  #8 Cancer of the Esophagus [Title/Abstract]  #9 Esophagus Cancer [Title/Abstract]  #10 Cancer, Esophagus [Title/Abstract]  #11 Esophagus Cancers [Title/Abstract]  #12 Esophageal Cancer [Title/Abstract]  #13 Cancer, Esophageal [Title/Abstract]  #14 Cancers, Esophageal [Title/Abstract]  #15 Esophageal Cancers [Title/Abstract]  #16 #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  #17 Immunotherapy [Mesh Terms]  #18 Immunotherapies [Title/Abstract]  #19 immunity [Title/Abstract]  #20 immunity, therapy [Title/Abstract]  #21 #17 OR #18 OR #19 OR #20  #22 #16 AND #21 |
| 2. Cochrane Library |
| #1 MeSH descriptor: [Esophageal Neoplasms] explode all trees  #2 "Esophageal Neoplasms" or "Esophageal Neoplasm" or "Neoplasm, Esophageal" or "Esophagus Neoplasm" or "Esophagus Neoplasms" or "Neoplasms, Esophageal" or "Cancer of Esophagus" or "Cancer of the Esophagus" or "Esophagus Cancer" or "Cancer, Esophagus" or "Esophagus Cancers" or "Esophageal Cancer" or "Cancer, Esophageal" or "Esophageal Cancers"): ti, ab, kw.  #3 MeSH descriptor: [Immunotherapy] explode all trees  #4 "Immunotherapy" or "Immunotherapies" or "immunity" or "immunity, therapy"): ti, ab, kw.  #5 #2 AND #4 |
| 3. EMBASE |
| #1 'esophagus tumor'/exp  #2 'esophageal neoplasms': ab,ti OR 'esophageal tumor': ab,ti OR 'esophagus tumour': ab,ti OR  'oesophageal neoplasms': ab,ti OR 'oesophageal tumor': ab,ti OR 'oesophageal tumour' OR 'oesophagus tumor' : ab,ti OR ' oesophagus tumour': ab,ti OR ' tumor, esophagus': ab,ti OR ' tumour, esophagus': ab,ti  #3 #1 OR #2  #4 'immunotherapy'/exp  #5 'Immunotherapies': ab,ti OR 'immunity': ab,ti OR 'immunity, therapy': ab,ti  #6 #4 OR #5  #7 #3 AND #6 |
| 4. Web of Science |
| #1 AB= (Esophageal Neoplasms or Esophageal Neoplasm or Neoplasm, Esophageal or Esophagus Neoplasm or Esophagus Neoplasms or Neoplasms, Esophageal or Cancer of Esophagus or Cancer of the Esophagus or Esophagus Cancer or Cancer, Esophagus or Esophagus Cancers or Esophageal Cancer or Cancer, Esophageal or Esophageal Cancers)  #2 AB= (Immunotherapy or Immunotherapies or immunity or immunity, therapy)  #3 #1 AND #2 |

Search strategy of Pubmed, Cochrane Library. EMBASE. Web of Science.