# C:\Users\Josje\Pictures\2015\VU\logos\Hotspot for Content UL-www EN.png

# Logbook: Search appendicitis + antibiotics

**1. Search Question**

Is using antibiotic treatment for appendicitis in adults a safe and effective alternative to an appendectomy?

**2. Search aspects**

|  |  |  |  |
| --- | --- | --- | --- |
| Search aspect 1 | Search aspect 2 | Search aspect 3 | Filter |
| appendicitis | antibiotics | appendectomy | Adults |

**3. Databases**

|  |
| --- |
| Databases  Note: in this logbook, we only search in PubMed, but the others could be useful as well |
| PubMed |
| Embase |
| Cochrane Library |

**4. Search strategy PubMed**

**a. MeSH-terms**

|  |  |
| --- | --- |
| **#1 Appendicitis** | "Appendicitis"[MeSH] |
| **#2 Antibiotics** | "Anti-Bacterial Agents"[MeSH] OR "Anti-Bacterial Agents" [Pharmacological Action] |
| **#3 Surgery** | "Appendectomy"[MeSH] |

1. tiab-terms

|  |  |
| --- | --- |
| **#1 Appendicitis** | appendicitis[tiab] |
| **#2 Antibiotics** | anti bacterial agent\*[tiab] OR antibacterial agent\* OR antibiotic\*[tiab] |
| **#3 Surgery** | appendectom\*[tiab] OR appendicectom\*[tiab] |

1. Truncation and Phrase searching

Both of these search techniques have been applied to the searches shown above:

Example **Truncation**: antibiotic\*[tiab]

Example **Phrase**: anti bacterial agent\*[tiab]

Copy and paste these examples into the search box in PubMed. In the **Search Details** box on the right (you may have to scroll down), you can view the terms that PubMed has applied to the search.

1. Combining

**#1 appendicitis**"Appendicitis"[MeSH] OR appendicitis[tiab]

**#2 antibiotics**"Anti-Bacterial Agents"[MeSH] OR anti bacterial agent\*[tiab] OR antibacterial agent\* OR antibiotic\*[tiab]

**#3 surgery**"Appendectomy"[MeSH] OR appendectom\*[tiab] OR appendicectom\*[tiab]

**#4** #1 AND #2 AND #3

1. Advanced search

[https://www.ncbi.nlm.nih.gov/PubMed/advanced](https://www.ncbi.nlm.nih.gov/pubmed/advanced)  
Search the queries seperately in the Search box in the **PubMed Advanced Search Builder**

|  |  |
| --- | --- |
| #1 | "Appendicitis"[MeSH] OR appendicitis[tiab] |
| #2 | "Anti-Bacterial Agents"[MeSH] OR "Anti-Bacterial Agents" [Pharmacological Action] OR anti bacterial agent\*[tiab] OR antibacterial agent\*[tiab] OR antibiotic\*[tiab] |
| #3 | "Appendectomy"[MeSH] OR appendectom\*[tiab] OR appendicectom\*[tiab] |
| #4 | #1 AND #2 AND #3 |
| #5 | Apply Filter: **Age limit:** **NOT CHILDREN** #4 NOT (("Adolescent"[MeSH] OR "Child"[MeSH] OR "Infant"[MeSH] OR adolescen\*[tiab] OR child\*[tiab] OR schoolchild\*[tiab] OR infant\*[tiab] OR girl\*[tiab] OR boy\*[tiab] OR teen[tiab] OR teens[tiab] OR teenager\*[tiab] OR youth\*[tiab] OR pediatr\*[tiab] OR paediatr\*[tiab] OR puber\*[tiab]) NOT ("Adult"[MeSH] OR adult\*[tiab] OR man[tiab] OR men[tiab] OR woman[tiab] OR women[tiab])) |

**Note**: In #5 we apply the child filter, made by specialists, to exclude articles only about children. Articles about children AND adults will be included in our results.

**5. Search history in PubMed** [OR in builder](http://www.ncbi.nlm.nih.gov/pubmed)

* [NOT in builder](http://www.ncbi.nlm.nih.gov/pubmed)
* [Delete from history](http://www.ncbi.nlm.nih.gov/pubmed)
* [Show search results](http://www.ncbi.nlm.nih.gov/pubmed)
* [Show search details](http://www.ncbi.nlm.nih.gov/pubmed)
* [AND in builder](http://www.ncbi.nlm.nih.gov/pubmed)
* [OR in builder](http://www.ncbi.nlm.nih.gov/pubmed)
* [NOT in builder](http://www.ncbi.nlm.nih.gov/pubmed)
* [Delete from history](http://www.ncbi.nlm.nih.gov/pubmed)
* [Show search results](http://www.ncbi.nlm.nih.gov/pubmed)
* [Show search details](http://www.ncbi.nlm.nih.gov/pubmed)
* [Save in My NCBI](http://www.ncbi.nlm.nih.gov/pubmed)
* [AND in builder](http://www.ncbi.nlm.nih.gov/pubmed)
* [OR in builder](http://www.ncbi.nlm.nih.gov/pubmed)
* [NOT in builder](http://www.ncbi.nlm.nih.gov/pubmed)
* [Show search results](http://www.ncbi.nlm.nih.gov/pubmed)
* [Save as a My NCBI Collection](http://www.ncbi.nlm.nih.gov/pubmed)
* [AND in builder](http://www.ncbi.nlm.nih.gov/pubmed)
* [OR in builder](http://www.ncbi.nlm.nih.gov/pubmed)
* [NOT in builder](http://www.ncbi.nlm.nih.gov/pubmed)
* [Delete from history](http://www.ncbi.nlm.nih.gov/pubmed)
* [Show search results](http://www.ncbi.nlm.nih.gov/pubmed)
* [Show search details](http://www.ncbi.nlm.nih.gov/pubmed)
* [AND in builder](http://www.ncbi.nlm.nih.gov/pubmed)
* [OR in builder](http://www.ncbi.nlm.nih.gov/pubmed)
* [NOT in builder](http://www.ncbi.nlm.nih.gov/pubmed)
* [Delete from history](http://www.ncbi.nlm.nih.gov/pubmed)
* [Show search results](http://www.ncbi.nlm.nih.gov/pubmed)
* [Show search details](http://www.ncbi.nlm.nih.gov/pubmed)
* [Save in My NCBI](http://www.ncbi.nlm.nih.gov/pubmed)
* [AND in builder](http://www.ncbi.nlm.nih.gov/pubmed)
* [OR in builder](http://www.ncbi.nlm.nih.gov/pubmed)
* [NOT in builder](http://www.ncbi.nlm.nih.gov/pubmed)
* [Show search results](http://www.ncbi.nlm.nih.gov/pubmed)
* [Save as a My NCBI Collection](http://www.ncbi.nlm.nih.gov/pubmed)

| **Search** | **PubMed Query 06-08-2019** | **Items found** |
| --- | --- | --- |
| #6 | #4 NOT #5 | 825 |
| #5 | (("Adolescent"[MeSH] OR "Child"[MeSH] OR "Infant"[MeSH] OR adolescen\*[tiab] OR child\*[tiab] OR schoolchild\*[tiab] OR infant\*[tiab] OR girl\*[tiab] OR boy\*[tiab] OR teen[tiab] OR teens[tiab] OR teenager\*[tiab] OR youth\*[tiab] OR pediatr\*[tiab] OR paediatr\*[tiab] OR puber\*[tiab]) NOT ("Adult"[MeSH] OR adult\*[tiab] OR man[tiab] OR men[tiab] OR woman[tiab] OR women[tiab])) | 1249 |
| #4 | #1 AND #2 AND #3 | 15117 |
| #3 | "Appendectomy"[MeSH] OR Appendectom\*[tiab] OR appendicectom\*[tiab] | 857073 |
| #2 | "Anti-Bacterial Agents"[MeSH] OR "Anti-Bacterial Agents" [Pharmacological Action] OR anti bacterial agent\*[tiab] OR antibiotic\*[tiab] | 23899 |
| #1 | "Appendicitis"[MeSH] OR appendicitis[tiab] | 825 |

**6. Evaluation of the results and adjusting search**

There are several options for adjusting the search.

**Example 1:**

In our search, we did not use the entry terms for Anti-bacterial Agents as synonyms. We can extend our search block for antibiotics and see what happens.

"Anti-Bacterial Agents"[MeSH] OR "Anti-Bacterial Agents" [Pharmacological Action] OR anti bacterial agent\*[tiab] OR antibiotic\*[tiab] OR anti bacterial agent\*[tiab] OR antibacterial agent\*[tiab] OR antibiotic\*[tiab] OR bacteriocidal agent\*[tiab] OR bacteriocide\*[tiab] OR anti mycobacterial agent\*[tiab] OR antimycobacterial agents[tiab]

**Example 2:**

We can use a clinical query filter to narrow the results down to Systematic Reviews and Clinical studies.   
In Advanced Search Builder: go to **More Resources** > **Clinical Queries** > type set number of results: **#4.**  
Choose: **Category: Therapy, Scope: Narrow.** Click on **See All.** Go back and do the same for finding **Systematic Reviews.**

| **Search** | **PubMed Query 06-09-2019** | **Items found** |
| --- | --- | --- |
| #7 | #5 OR #6 | 190 |
| #6 | systematic[sb] AND (#4) | 41 |
| #5 | (Therapy/Narrow[filter]) AND (#4) | 152 |
| #4 | #1 AND #2 AND #3 | 1249 |
| #3 | "Appendectomy"[MeSH] OR Appendectom\*[tiab] OR appendicectom\*[tiab] | 15117 |
| #2 | "Anti-Bacterial Agents"[MeSH] OR "Anti-Bacterial Agents" [Pharmacological Action] OR anti bacterial agent\*[tiab] antibacterial agent\*[tiab] OR antibiotic\*[tiab] | 857073 |
| #1 | "Appendicitis"[MeSH] OR appendicitis[tiab] | 23899 |