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Search Strategies: Endobronchial Ultrasound Bronchoscopy through Tracheostomy Tube to Support a Case Report

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Purpose:

To search in the PubMed and Web of Science databases to identify similar reports and confirm the hypothesis that we have a unique report.

PubMed:

MeSH term: To start the search in PubMed, MeSH terms were identified by reviewing different articles.

On September 6th 2013 the following MeSH terms were selected and combined in PubMed with OR:

- Bronchoscopy/instrumentation
- Ultrasonography (includes Endoscopic Ultrasound-Guided Fine Needle Aspiration)
- Biopsy, Fine-Needle

Next, the following MeSH terms were combined with OR:

- Tracheostomy
- Tracheotomy

The two large retrievals from above were combined with AND: this resulted in 72 references to peer reviewed articles. Only two references seemed initially relevant, but turned out to be unrelated. The reference to an article by Murgu S, et al. describes an endobronchial ultrasound finding of tracheomalacia and the second reference to an article by Hatfield A, et al. describes the utility of neck ultrasound before performing tracheostomy.

To rule out the possibility that any references that were not captured by the MeSH terms existed, a second search on the same day using the text word search strategy: endobronch*[tw] AND ultraso*[tw] using the human study filter produced 691 references. Of these only one article appeared relevant to the search topic. Morócz E, et al. describe the utility of endobronchial ultrasound bronchoscope to identify ultrasound characteristics of tracheal cartilage to guide selection of medical vs. surgical management.

Endobronchial ultrasound (EBUS) is not a MeSH term. A third search strategy included combining "Tracheostomy"[Mesh] AND EBUS [tw]. This search did not find any references to a relevant article.
A fourth comprehensive search strategy using EBUS[tw] AND tracheostomy[tw] also did not reveal any references to a pertinent article.

**Web of Science:**

Web of Science with the “All Data Base” search option was used to identify additional pertinent references. This search strategy revealed four references, but no reference pertinent to the current search. The search strategy consisted of the following:

Topic=(endobronch*) AND Topic=(ultraso*) AND Topic=(tracheostom*)
Timespan=All years Search language=English

**References:**

