

# Systematic review of methods for pet population estimation:



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## finding the papers

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Medline: 35154

PubMed: 36978

EMBASE: 11843

**BIOSIS: 24184** 

ISI Web of Science: 11646 CAB Abstracts: 8250

Zoological Records: 7760

**Background:** 

Currently a systematic review is being undertaken to examine the best methods of determining the population size of the dog and cat population in the United Kingdom. A systematic review aims to provide an exhaustive summary of literature (published and grey) relevant to a research question. The first step is a thorough search of the bibliographic databases and citation indexes that are relevant to the topic area. This is followed by extensive manual filtering of the outcomes of the searches to end up with all the relevant papers that addresses the systematic review question. The aim of the poster is to outline the processes involved in searching the literature and to present the initial results of the literature searches.



### <u>Methods:</u>

<u>Literature searches</u> Relevant experimental studies were identified by searching the following databases followed by date search completed: PubMed (11/05/11), MEDLINE (10/05/11), CAB Abstracts (09/05/11), Embase (11/05/11), BIOSIS Previews (14/07/11), Web of Science (09/05/11), Zoological Record (14/07/11). The searches were completed using various terms and Boolean equations (depending on the database) for Cat, Dog, Pet, Census, Population Demographics/Dynamics and population surveillance.



#### **Results:**

When the searches from all the databases were combined a total of 103871 papers were extracted. A total of 39760 duplicate records were found in the combined dataset. Of these only 36 papers incorporated all the inclusion (Figure 1).

Figure 1. Flow diagram showing the total number of papers and the number of papers filtered, at each stage of the selection process from the literature search of a systematic review on pet population estimation.

#### Discussion:

There is a huge overlap between the different literature databases

- It is also important to note that there is a lot of diversity between the databases.
- There are considerable differences between databases with veterinary coverage (Grindlay et al, 2012).
- CAB Abstracts has the greatest cover of veterinary journals (Grindlay et al, 2012).
- With diverse topics information can be published in many areas of scientific literature, not just in veterinary Journals.
  - Systematic review topics that are not traditional questions lead to an extensive numbers of papers in order to ensure maximum coverage of the literature. Many veterinary reviews will not meet the traditional Cochrane systematic review procedures (Higgins and Green 2011).

#### Acknowledgment:

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#### References:

Higgins, J. & Green, S. Cochrane Handbook for Systematic Reviews of Interventions, http://www.cochrane-handbook.org/ Grindlay, D. Brennan, M. & Dean, R. Searching the veterinary literature: a comparison of the coverage of veterinary journals by nine bibliographic databases. Journal of Veterinary Medical Education, In Press.