

# An Evidence Based Practice Outcome Measure: Analysis of Nurse-Authored Hospital Policy and Procedure Documents

Kathy J. Fatkin, RN, PhD, AHIP  
Mary Anne Reynolds, RN, PhD, ACNS-BC

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# Presentation Information



## Learning Objective:

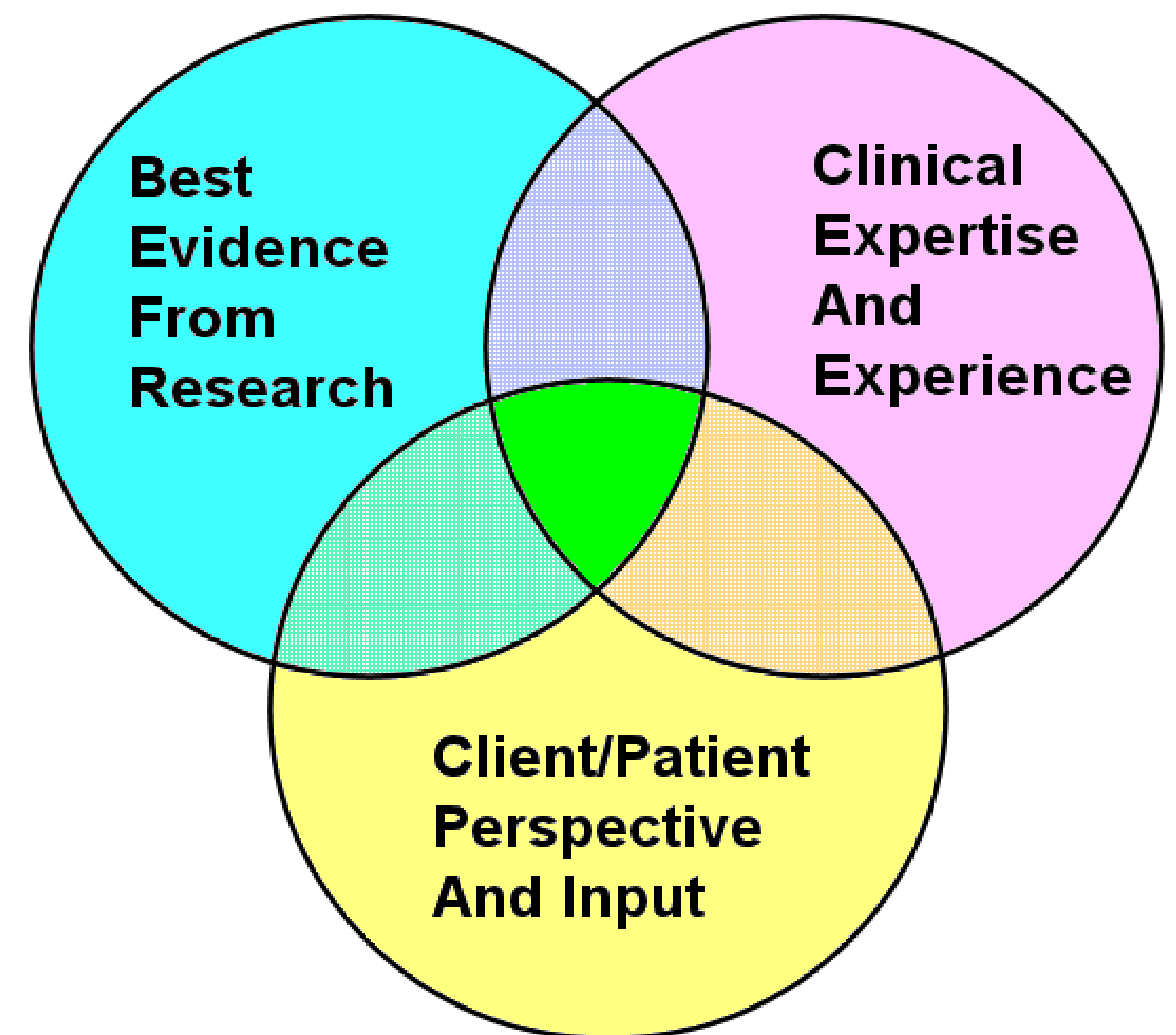
- At the end of this session the learner will be able to discuss the use of policy and procedure document citation data to measure evidence-based nursing practice outcomes.
- This research was supported in part by a grant from the Department of Health and Human Services, National Institutes of Health, National Library of Medicine under contract with the University of Washington.
- Dr. Fatkin is currently employed at Eastern Idaho Regional Medical Center in Idaho Falls, Idaho.
- Dr. Reynolds is currently employed at Northern Arizona University in Flagstaff, Arizona.
- The presenters have no conflict of interest.



# Evidence Based Practice

An approach to making health care decisions that integrates

- Best evidence from research
- Provider's clinical expertise
- Patient's preferences
- Values with available resources within a health care system

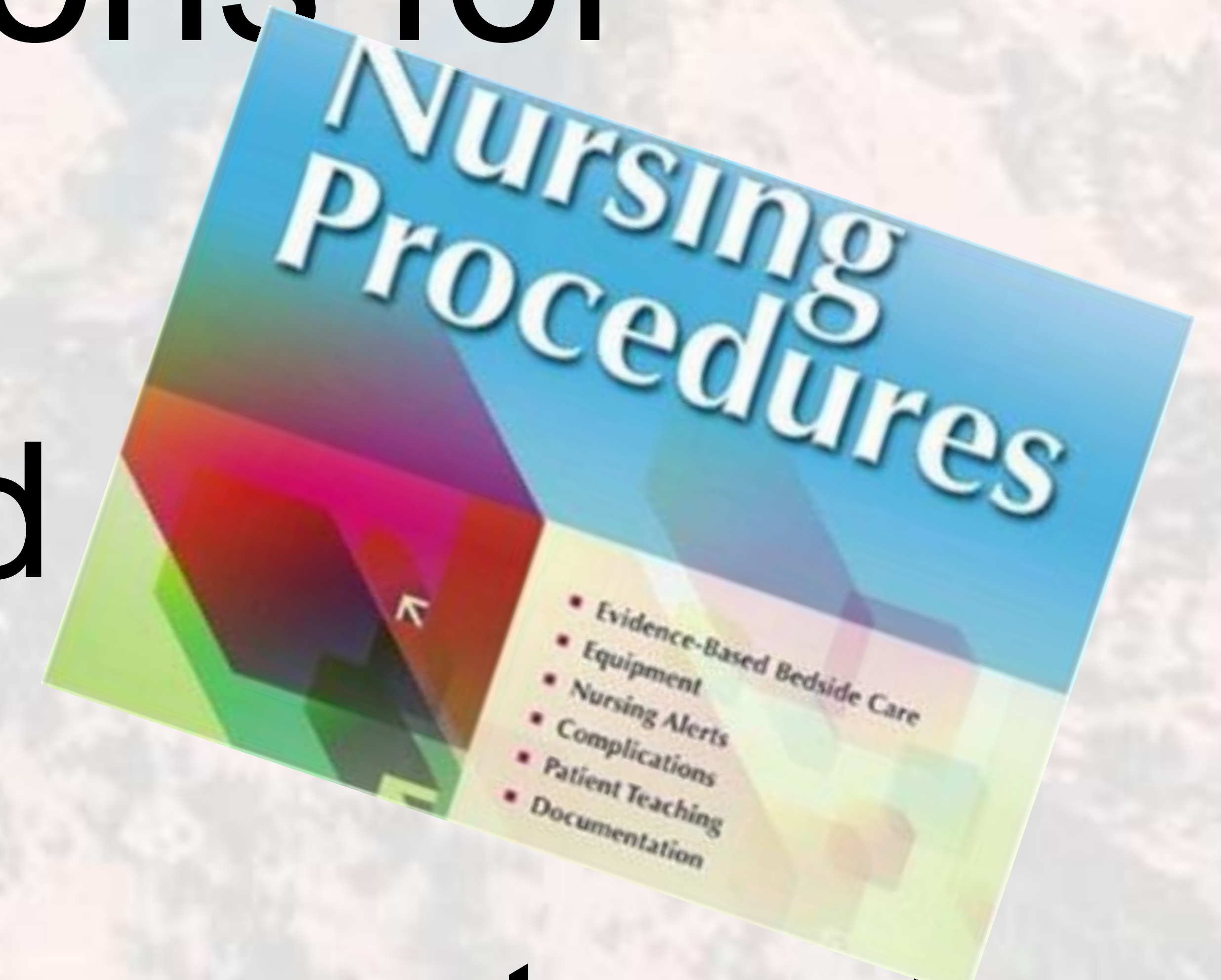




# Policy and Procedures



- Ensures safe and consistent care to patients
- Used to manage various patient care needs
- Describes standards and expectations for nurses
  - Related to performance and roles and responsibilities
- Most often communicated by written protocols
- Created or updated by nurses within an organization





# The Problem



- The Institute of Medicine (IOM, 2012) has set a goal that by 2020, 90% of care is based on current evidence.
- While most hospital nurses will say that their practice is based on current evidence this is very difficult to objectively measure.
- Source of their practices often come from hospital policies and procedure documents.
- There is little evidence that specifically looks at the sources of the evidence the nurses use to support these policies and procedures.



# The Purpose



- To investigate the use of evidence based practice through an examination of nurse-authored hospital policy and procedure documents.
- Research Questions
  - What are the information sources nurses cite when creating or updating nursing policies and procedures?
  - Are there variations of source citations between rural and urban, and small and large hospitals?



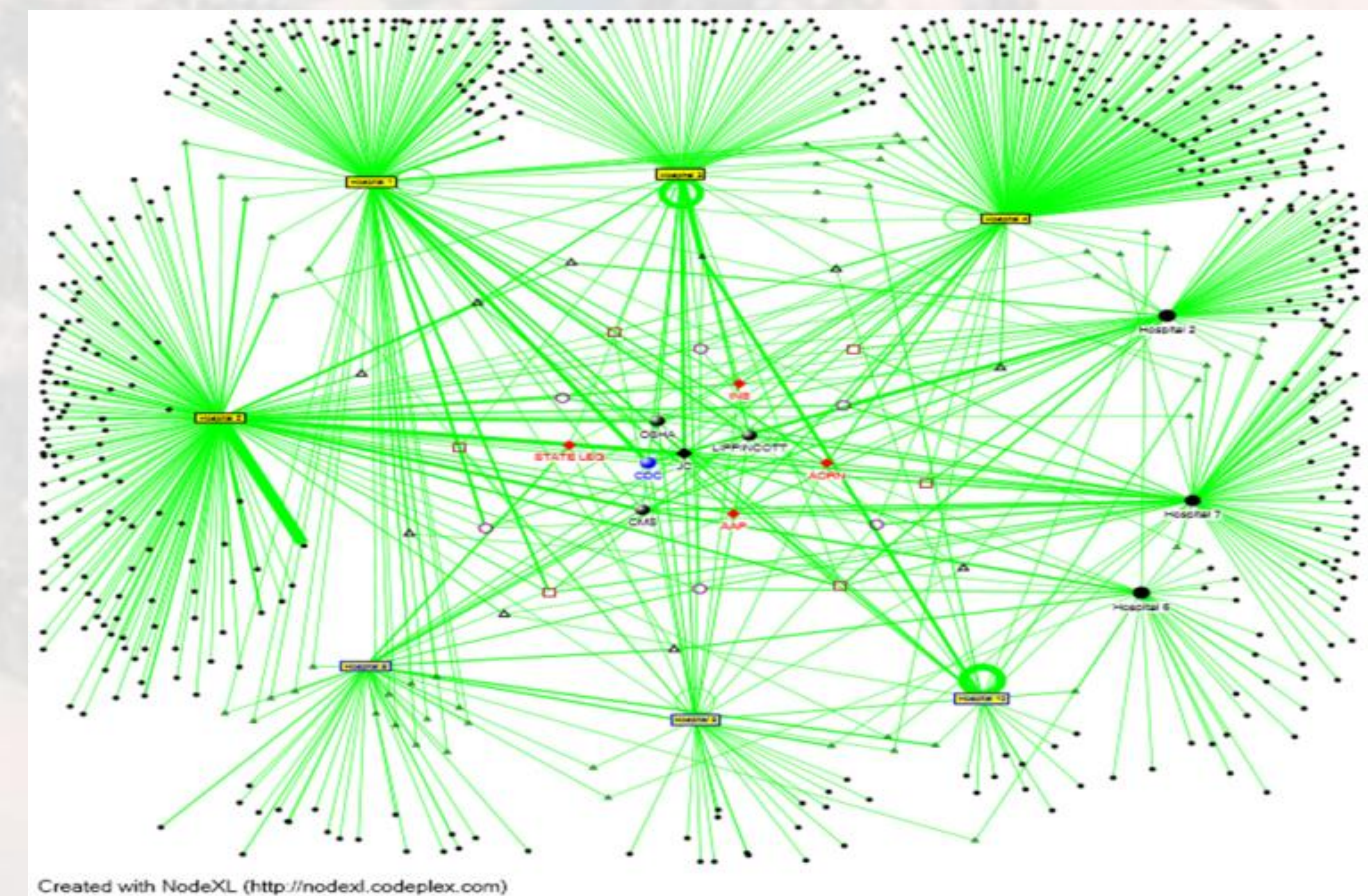
# Design

## Bibliometric study

- Measures parts of books (documents)

## Citation analysis

- Identifies patterns in the exchange of knowledge in a discipline from authors crediting another resource in their documents



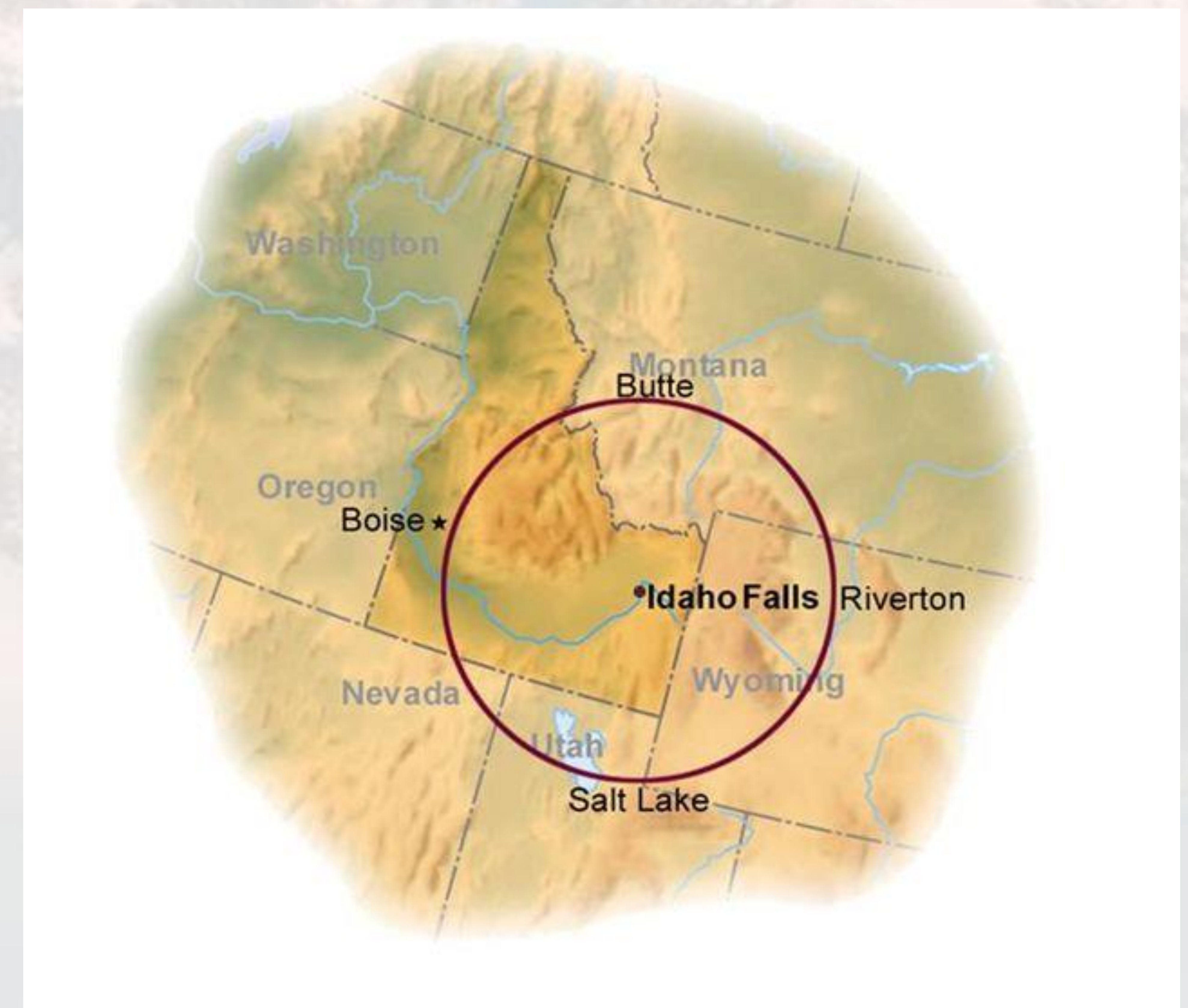
Created with NodeXL (<http://nodexl.codeplex.com>)



# Sample

Purposive sample of 22 hospitals

- Full members of the National Network of Libraries of Medicine (NN/LM) hospitals
- With staffed medical libraries
- Intermountain west region of the United States





# Sample Demographics

10 of the 22 (46%) hospitals shared their documents

- Location:
  - 7 in Idaho
  - 3 in Utah
- Community Size
  - 7 were urban >50,000
  - 3 were rural <50,000
- Hospital Size
  - 7 were large >100 licensed beds
  - 3 were small < 100 licensed beds

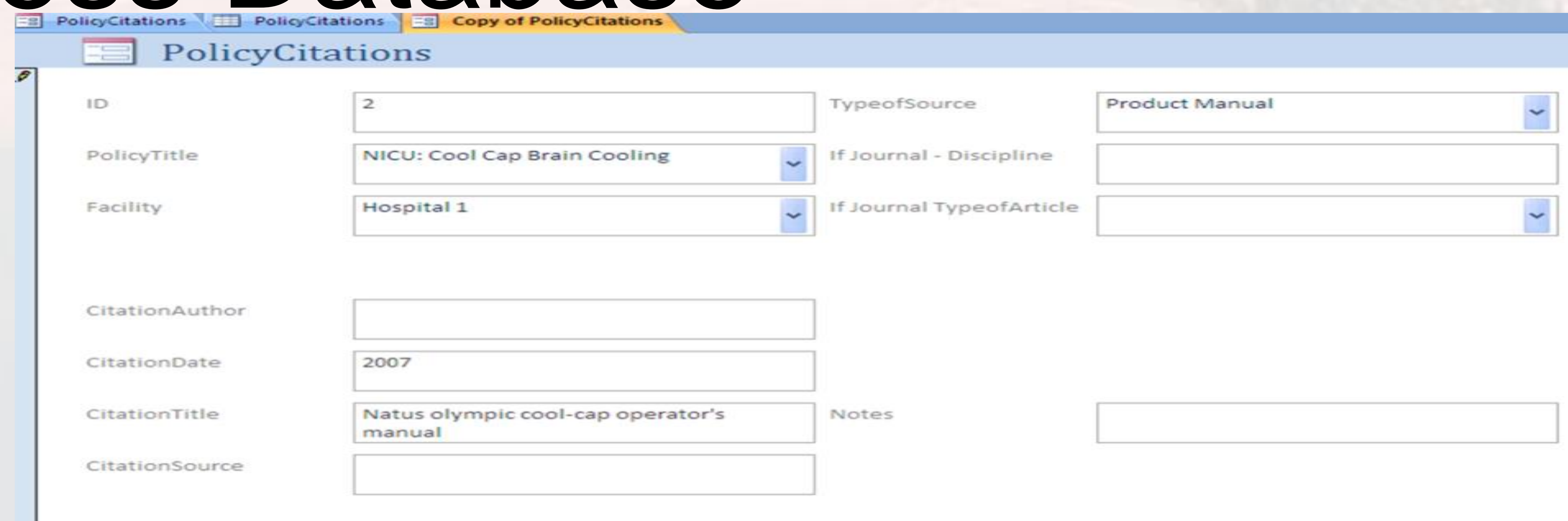




# Collected Data

## Policy and Procedure Nursing Documents

- Updated or created in the last 12 months
- Scanned for in-text and end-of-text citations
- References were printed or copied
- Each citation was entered into Microsoft Access Database



The screenshot shows a Microsoft Access database form titled "PolicyCitations". The form contains several fields for data entry:

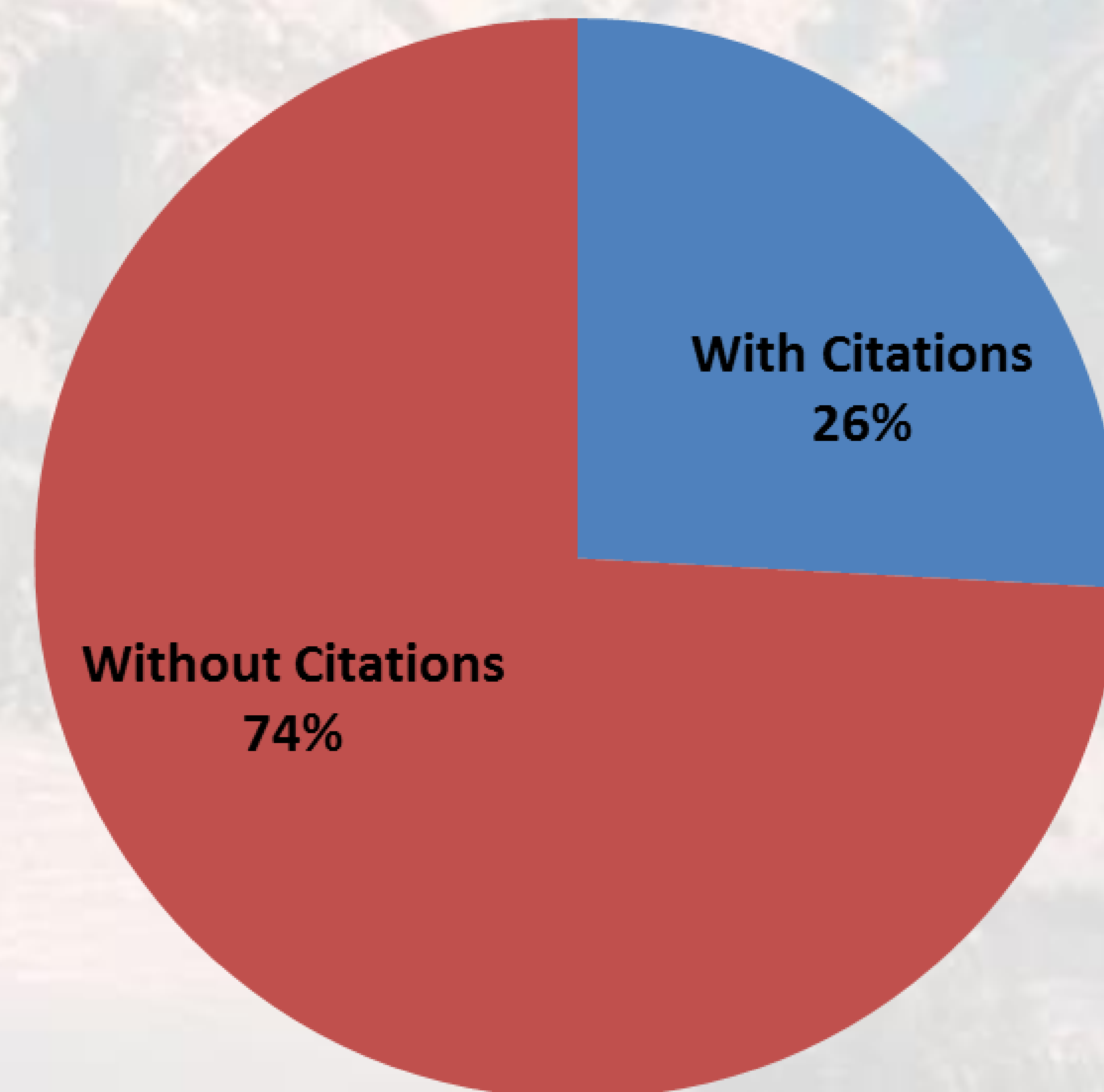
Field	Value
ID	2
PolicyTitle	NICU: Cool Cap Brain Cooling
Facility	Hospital 1
CitationAuthor	
CitationDate	2007
CitationTitle	Natus olympic cool-cap operator's manual
CitationSource	
TypeofSource	Product Manual
If Journal - Discipline	
If Journal TypeofArticle	
Notes	



# Citations

- Citations are the units of analysis
- 1, 561 documents were examined
  - 26% (409) had citations
  - 74% (1,172) had no citations

Majority did not cite sources of evidence.

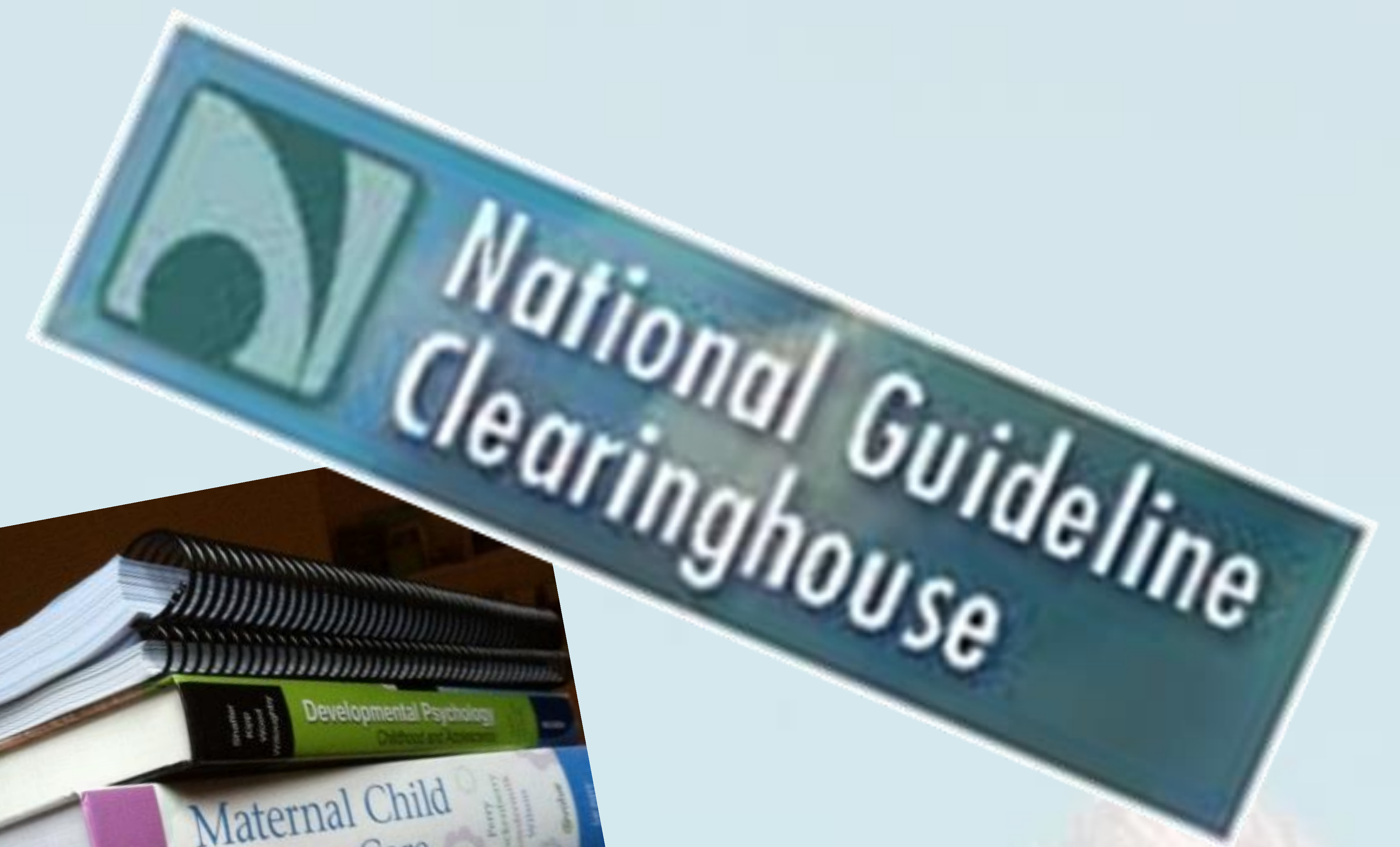




# Analysis

# Evaluated on

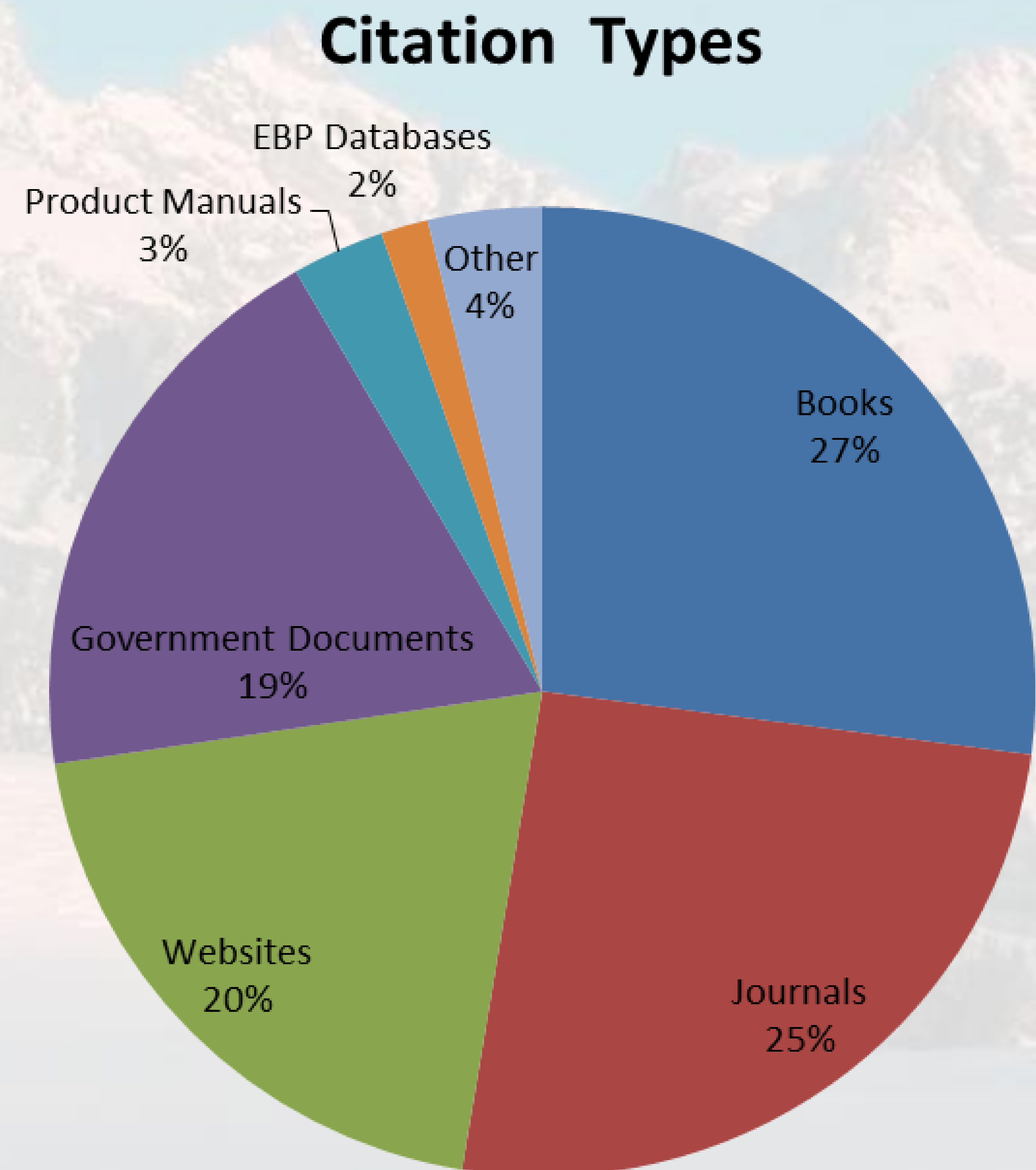
- Types of sources
- Year of publication
- Strength of evidence represented
- Variations between hospitals





# Sources

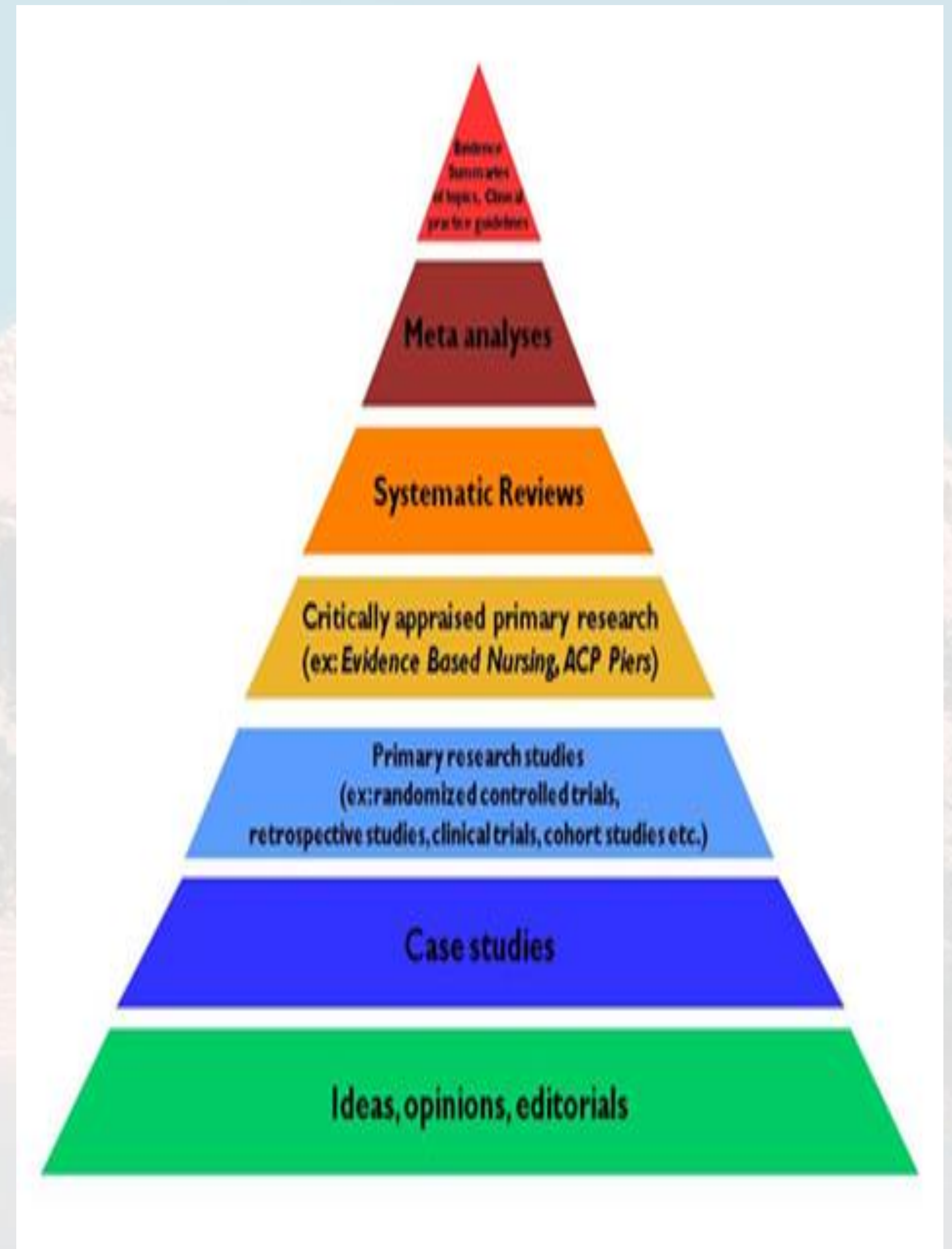
- 27% Books
- 26% journals
- 20% websites
- 19% government documents
- 8% other: product manuals, databases, meeting minutes





# Strength of Evidence

- 1.5% Strong Sources
  - EBP summary databases
- 20% Midlevel Sources
  - EBP journal articles (12%)
  - Primary research articles (7%)
- 27% Weak Sources
  - Textbooks
- 5.5% Very Weak
  - Non-research based practice articles

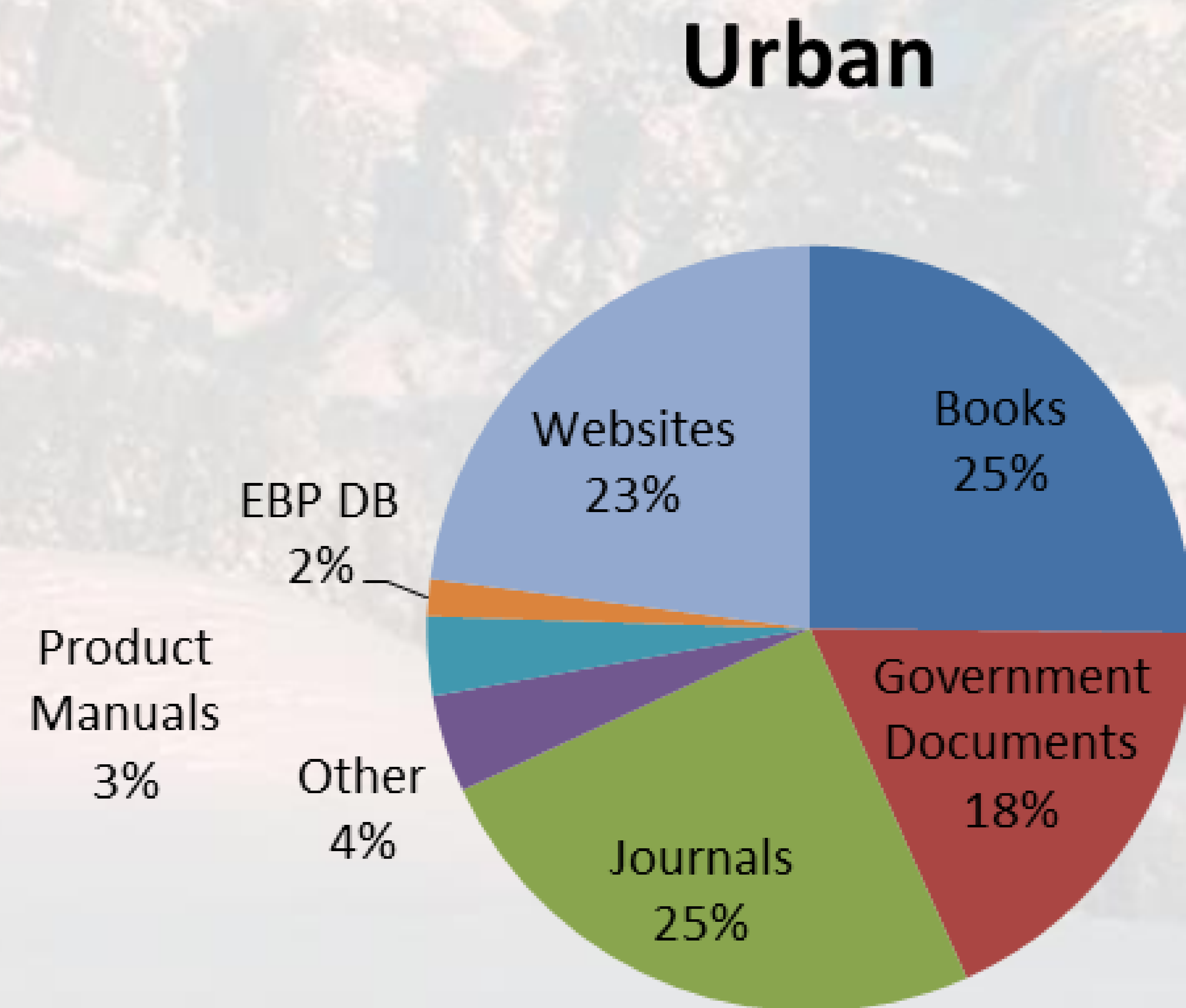
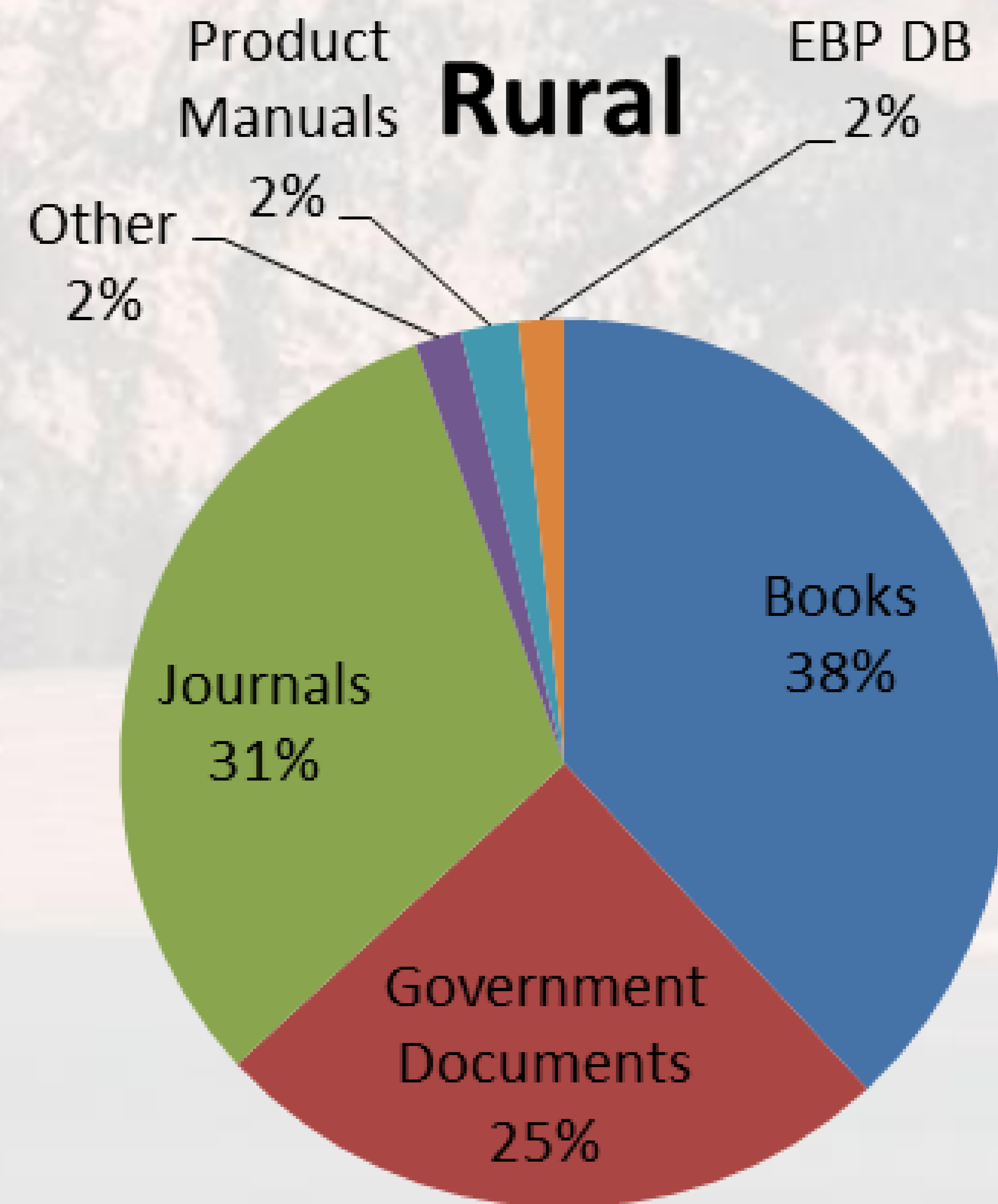




# Variations between Hospitals

- Community Size

- Rural hospitals cited more books and age of citations were older

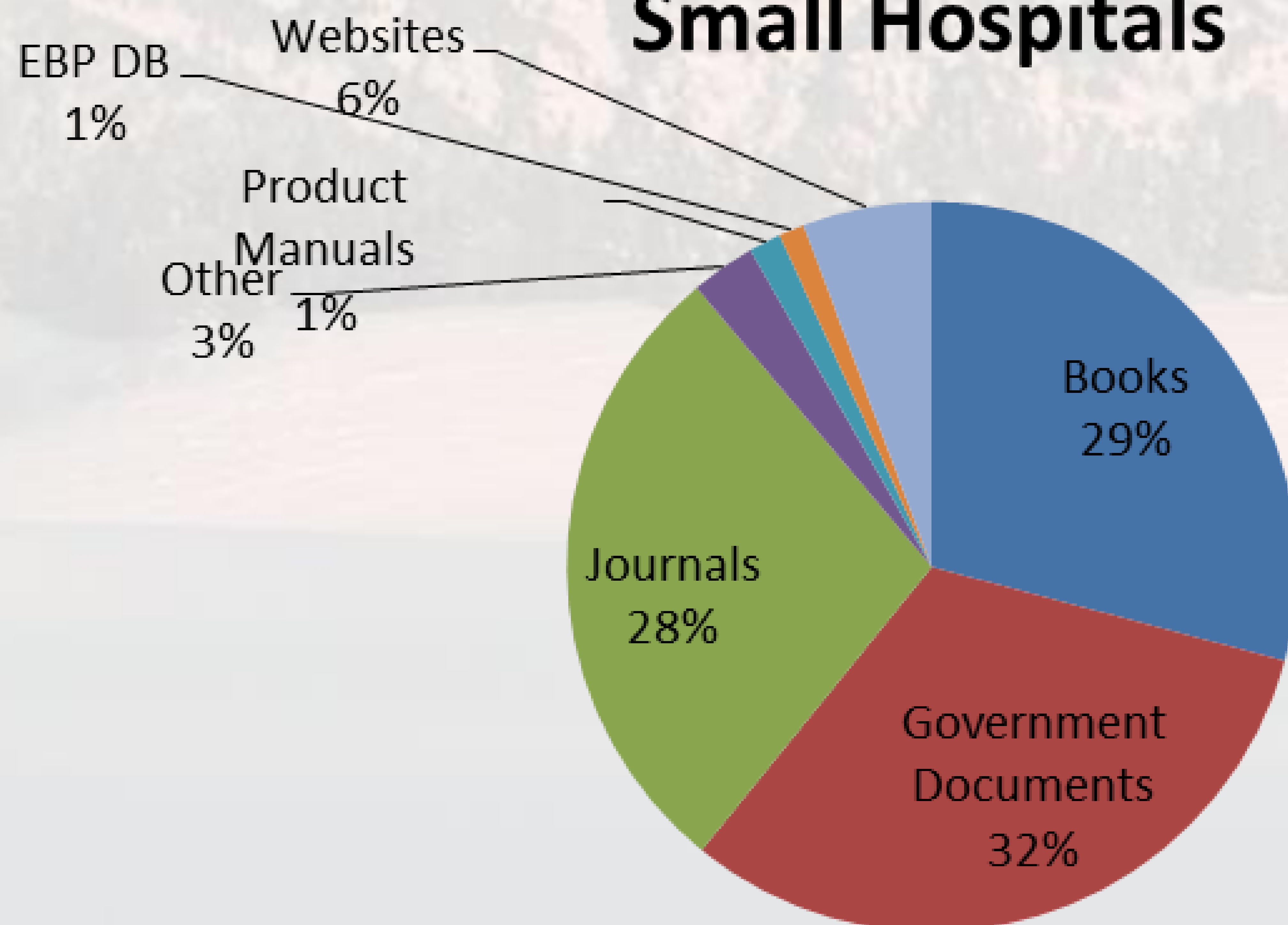




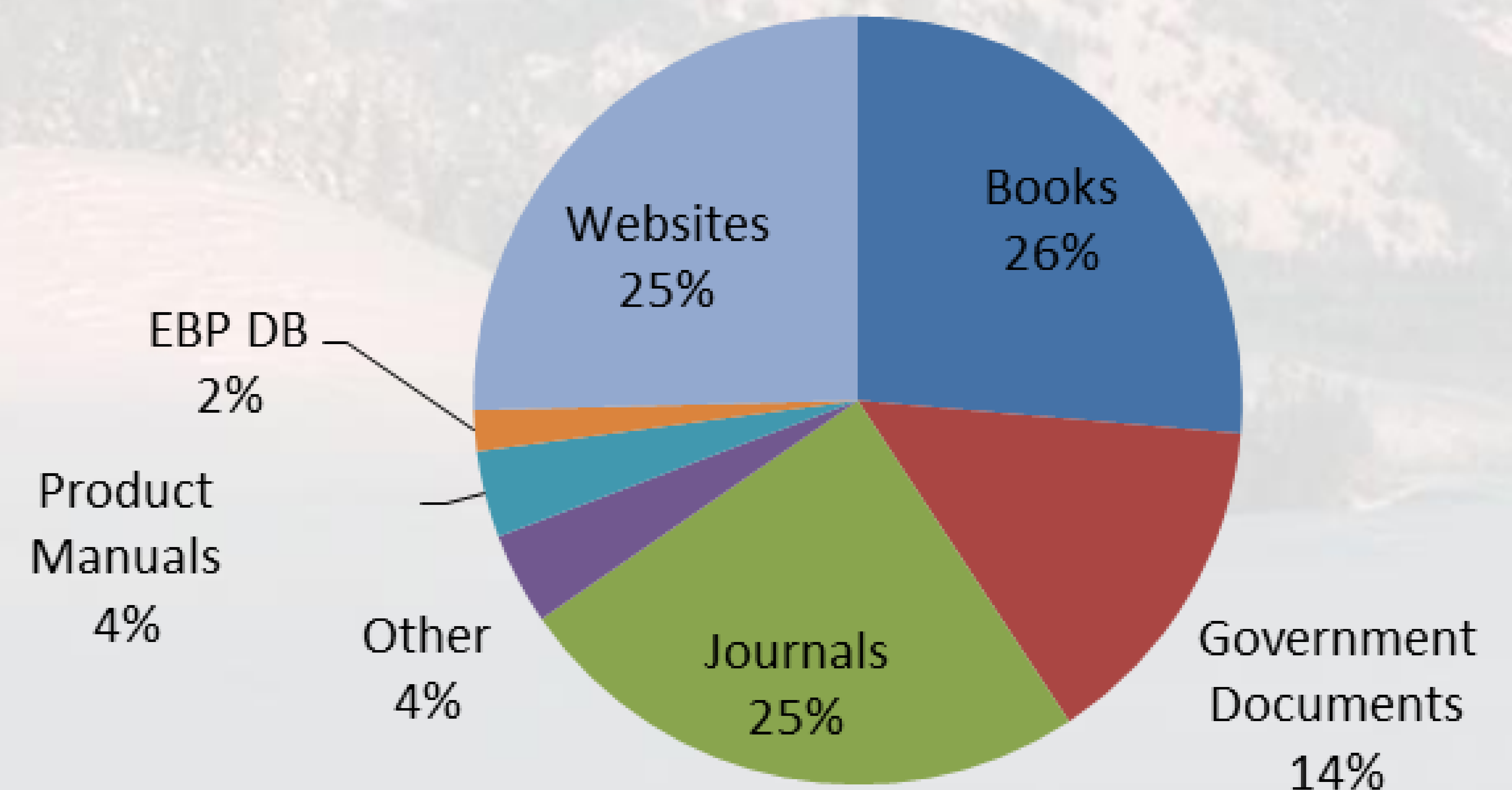
# Variations between Hospitals

- Hospital Size
  - Small hospitals cited government documents more
  - Large hospitals cited more websites

**Small Hospitals**



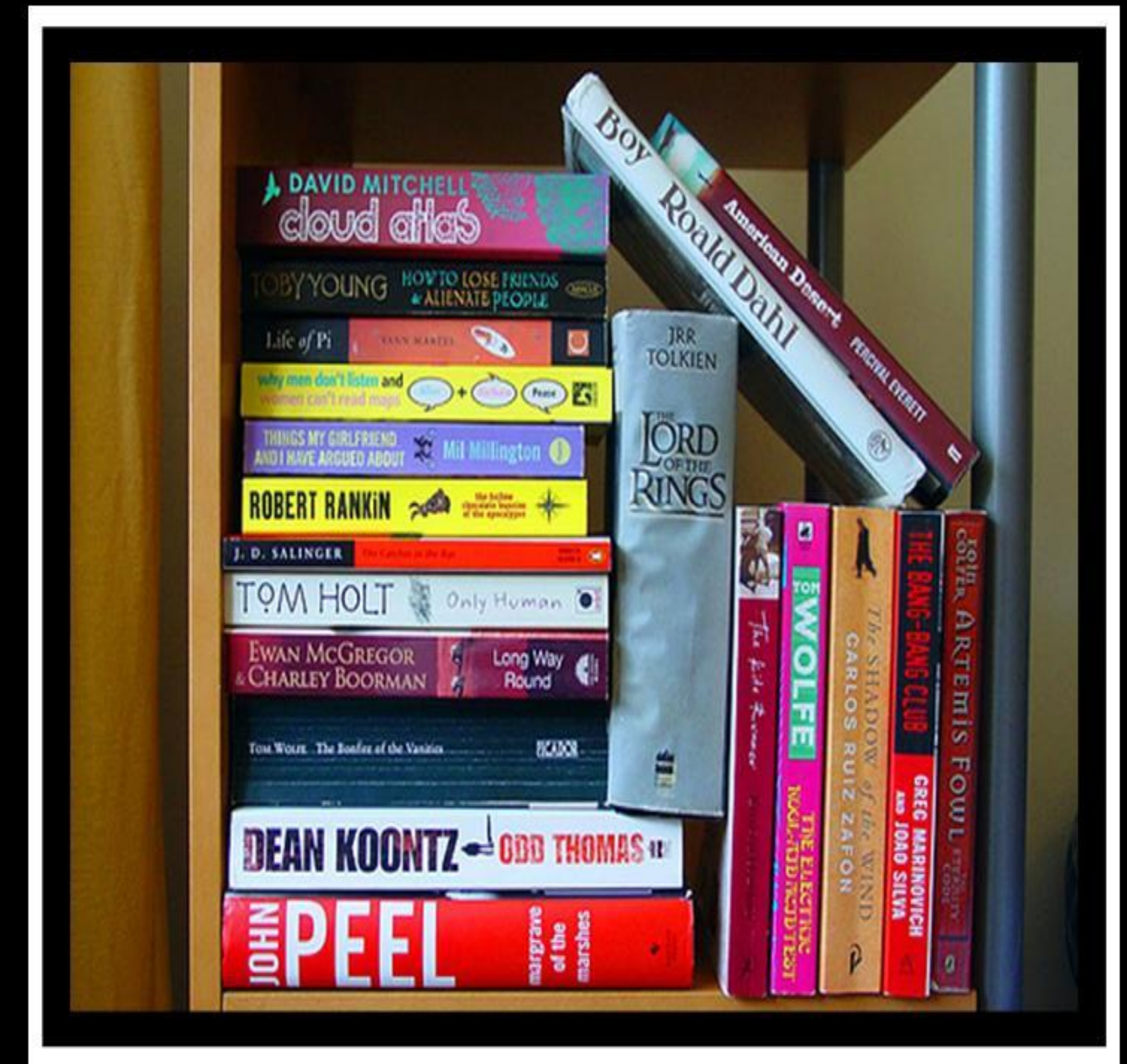
**Large Hospitals**





# Conclusions

- Small and unique population of documents
- All settings had on-site medical librarians
- Majority (74%) of the initially reviewed documents had NO citations or sources
- Large variation of types of evidence
- Large variation of the strength of evidence



# got books?



# Nursing Implications

Practice, education and leadership curriculums need

- To focus on how to use and then document the sources of evidence.
- To educate the person/s who are preparing the documents.
- To develop partnerships between nurses in hospitals and medical librarians.





# Questions?

