### QUALITY OF DATA DOWNLOADS

BIBLIOGRAPHIC DATABASES
FREQUENTLY USED FOR
SYSTEMATIC REVIEWS



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#### Examine quality of data exported to...

Prioritize order records are uploaded into EndNote to retain the primary record with best quality of data

#### Other implications & applications...

- Identify problem areas for duplicate removal from other citation managers
- Decide between databases with similar coverage which one has better quality data

### METHODS

random sample

277

journal articles

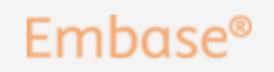


### SAMPLE SIZE

### Downloaded records from major bibliographic databases













All databases > Social Sciences databases

Sociological Abstracts







databases

2 download options

Google Scholar \_\_\_\_ Mendeley / 1 each

# PRESENT COMPLETE ACCURATE

### PRESENT

Information in the field was present and in the field it was supposed to be in

### COMPLETE



### All information was complete

Examples of incompleteness:

- Titles cut off half way through
- Only first page was given rather than page range
- Only first few authors were listed instead of all

### **ACCURATE**



### Information brought in was correct (had no mistakes) & no additional information

Examples of inaccuracies:

Author fields sometimes included affiliations or degree abbreviations

### Fields scored for presence, completeness & accuracy

Journal name

Article title

**Author** 

**Abstract** 

Volume

Issue

Year

**URL** 

Accession

DOI



### SPECIAL CASES

**Abbreviations** 

#### **Journal Titles**

Health Services Research



Health Serv Res

#### **Page Numbers**

446 - 452



446 - 52

### SPECIAL CASES URLs

Multiple URLs

Database record (with proxy)

Database record (no proxy)

Accession Number

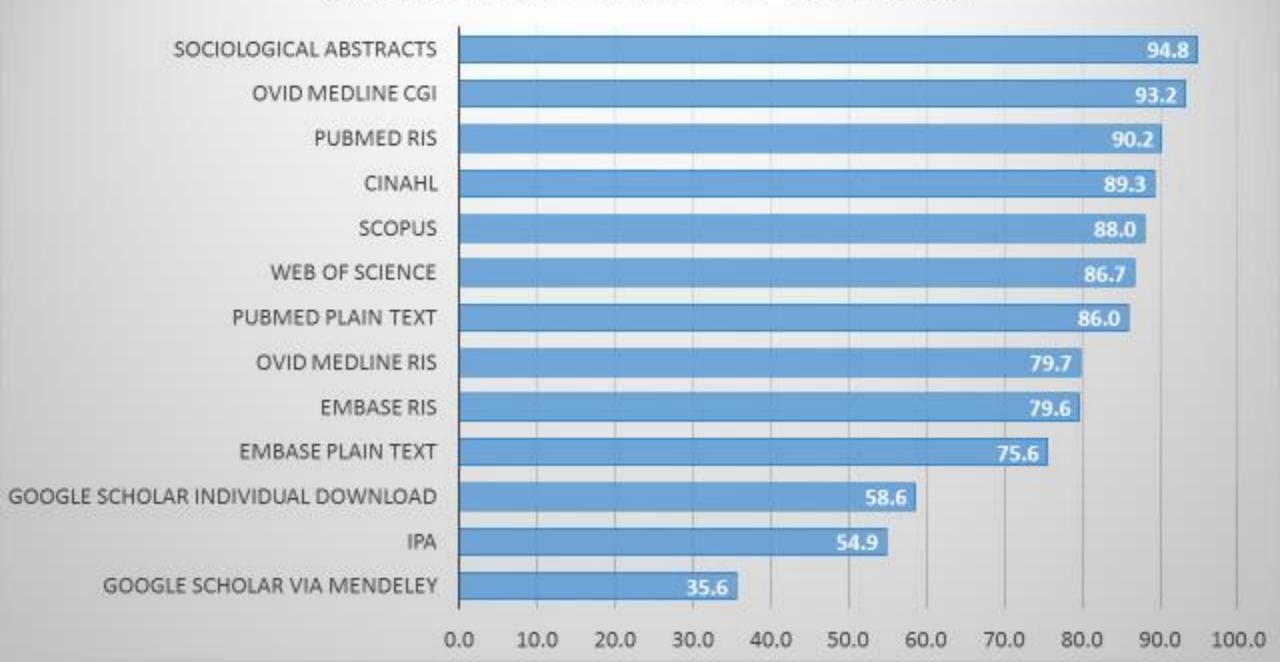
Journal record (no proxy)

### ANALYSES

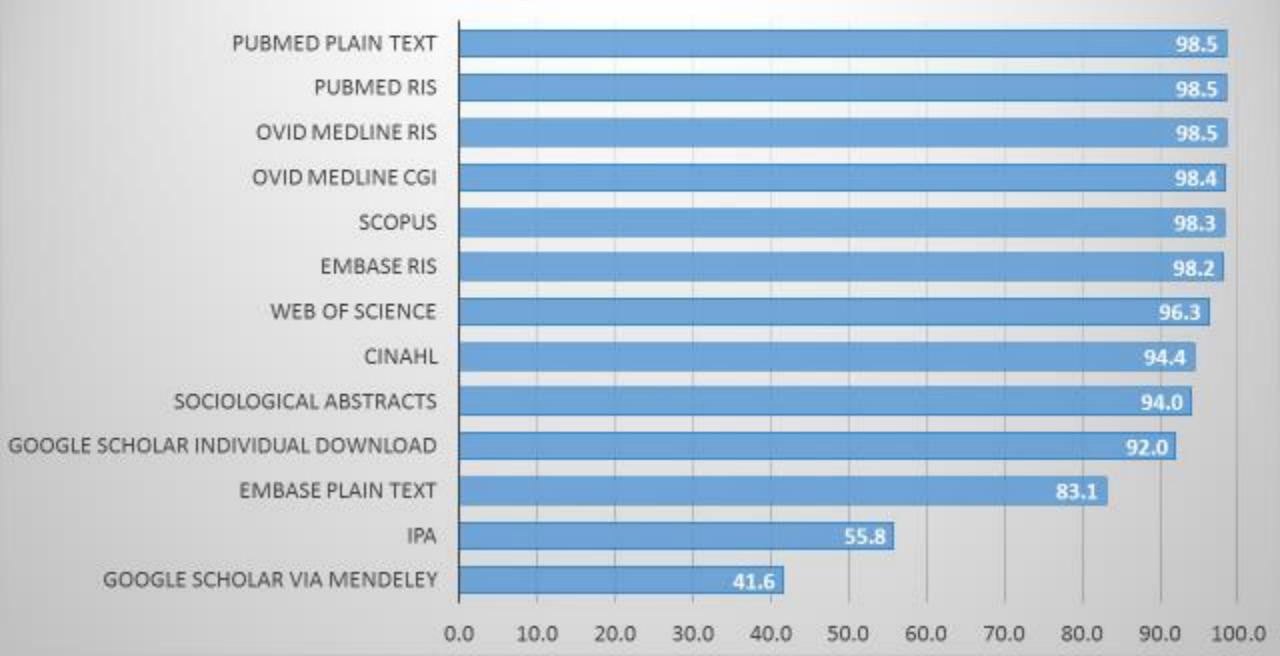
- Overall average score by database for all fields
- Overall average score by database for citation information only
- Overall scores for each database for other fields (URL, DOI, Abstract)
- Head-to-head scores for each database

## RESULTS & Barbard & Barbar

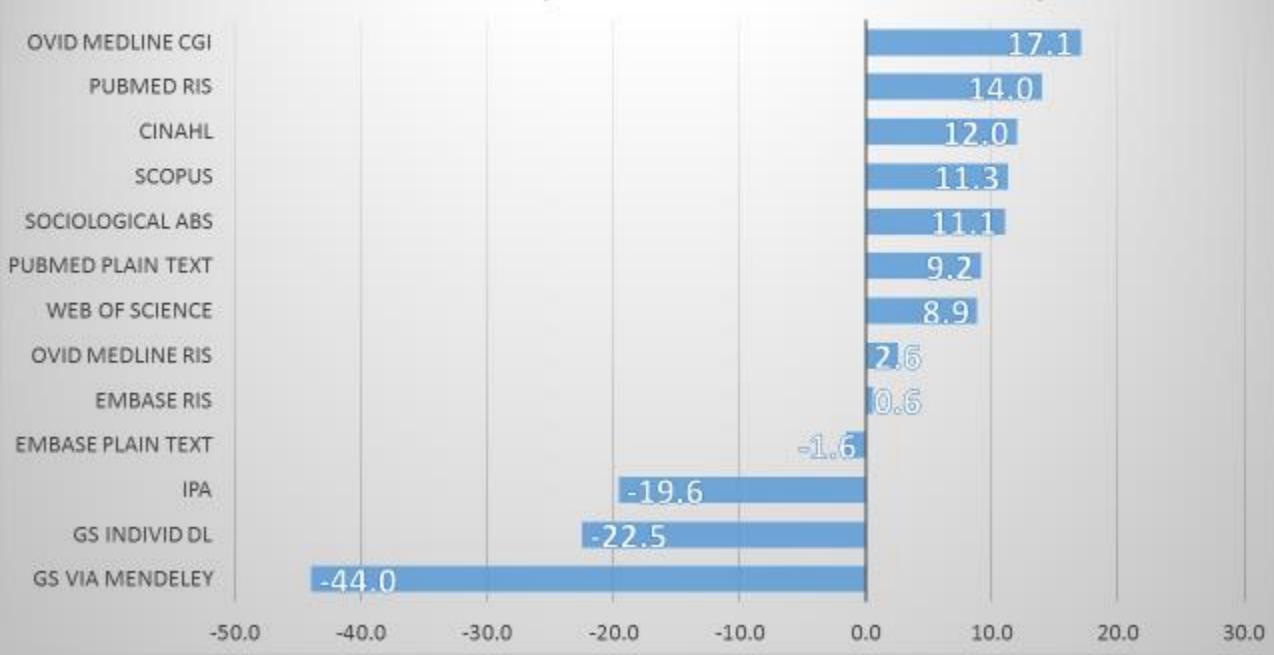
#### **Overall Mean Score for All Fields**



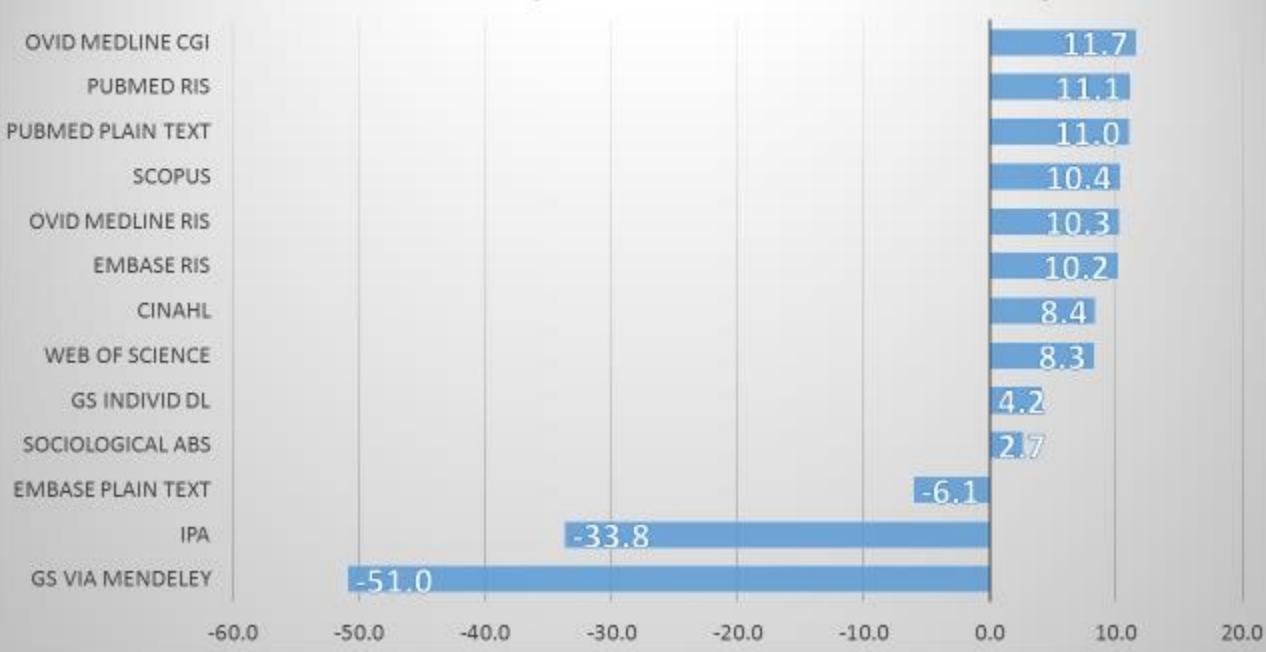
#### **Overall Score, All Citation Information**



### Head-to-Head Comparisons, Overall Score by Db



#### Head-to-Head Comparisons, Citation Score by Db



### CONCLUSIONS

### CONCLUSIONS Database Order for EndNote

- Ovid MEDLINE CGI or PubMed NBIB 1st
- CINAHL, Scopus, Sociological Abstracts, WoS 2nd
- Embase RIS, IPA, and Google Scholar 3rd

(Title or Title/Year matches best option)

### **CONCLUSIONS**Other Citation Managers

- DOIs inconsistent
- Double-check smaller databases
- Double-check Google Scholar

### **CONCLUSIONS**Databases with Similar Coverage

PubMed and Ovid MEDLINE scored roughly the same, and better than Embase

**Scopus and WoS** scored roughly the same and better than Google Scholar

Smaller databases have wide variances in data quality and the fields they bring in

### **CONCLUSIONS Format Selections**

Ovid CGI over RIS

PubMed NBIB over plain text

**Embase RIS** over plain text

Google Scholar individual download over Mendeley/Zotero/F1000 browser plugins

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### QUESTIONS

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