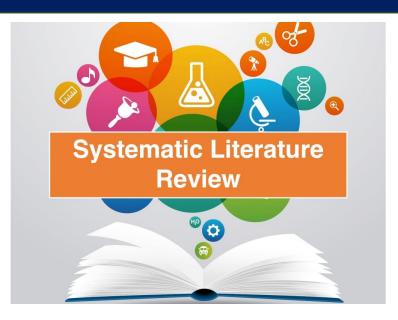
Systematic Review



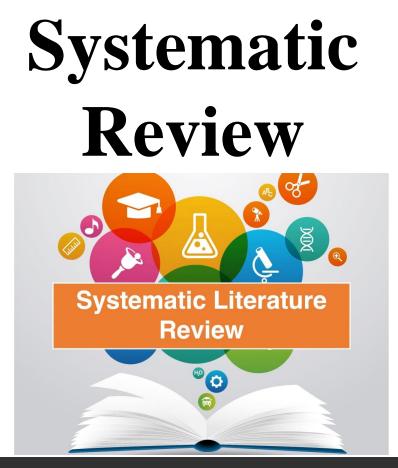
Muhammad Yousuf Ali PhD (Library & Information Science) Associate Librarian The Aga Khan University Karachi

Systematic Review in the realm of Social Science



Systematic Review Success: An Introductory Workshop for Librarians & Information Professionals

Systematic Review in the Realm of Social Science



"In the nonstop tsunami of Global information, Librarians teach us to swim."

Linton Weeks



Content

Systematic Review



- Scheme of Presentation
- Introduction
- Background
- SR in Social Sciences
- Librarian Role in Systematic Review
- Steps of SR
- FINER Criteria
- PICO
- Database Literature search
- PRISMA flow chart
- Software for Data extraction
- Al Based SR Software
- Report writing
- Recommendations



Introduction

Systematic Review

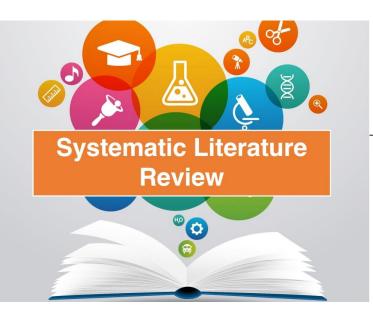
The "systematic review," also known as the "research synthesis," aims to provide a comprehensive, unbiased synthesis of many relevant studies in a single document.

(Egger et al., 2001; Khan et al., 2003; Tricco et al., 2011)



Introduction

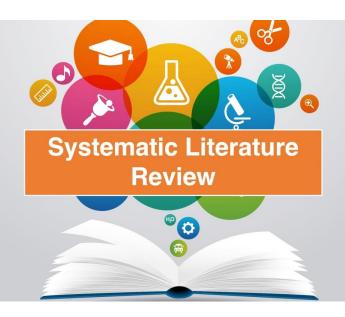
Systematic Review



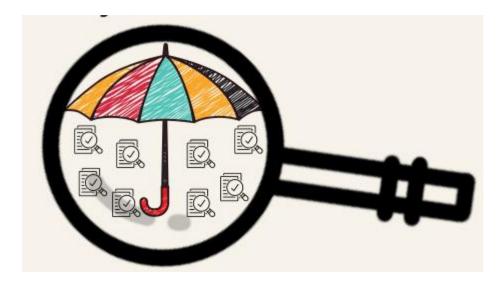
- Systematic review is a specific methodology.
- It locates existing studies, selects and evaluates contributions, analyses and synthesizes data and reports the evidence.
- Allows reasonably clear conclusions to be reached about what is known and unknown.

Characteristics

Systematic Review



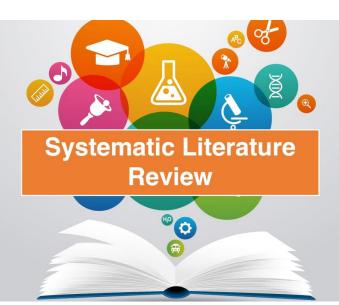
Characteristics				
Concise	Unbiased summary	Evidence		





Background

Systematic Review



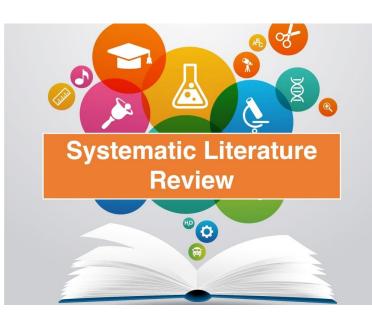
The first systematic review was published in 1753 by James Lind, who provided a summary of evidence having title "Treatise of the Scurvy."

(Egger et al., 2001)

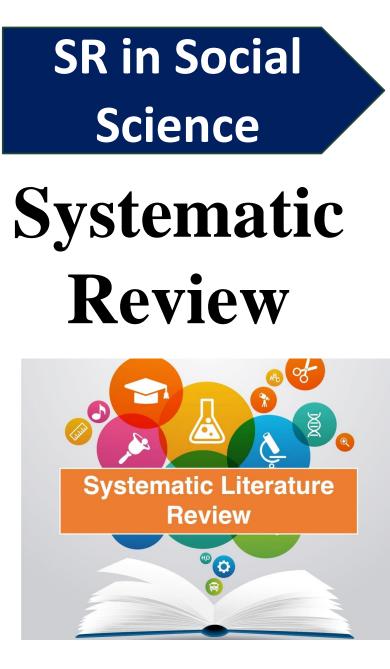


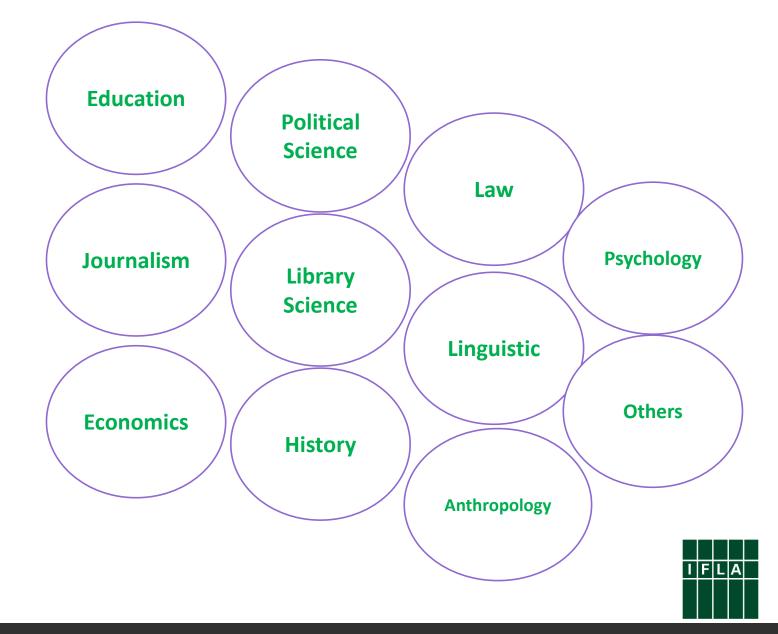
Background

Systematic Review



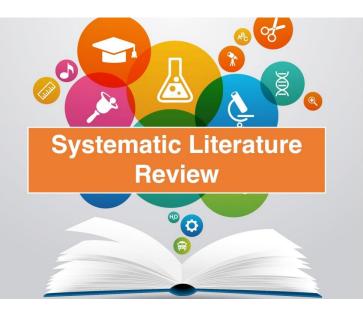
- Systematic review is extensively used/applied in health sciences.
- It gains the Popularity after 1980's in the health sciences.
- It migrated to social science in 1930.
- In social Science it gains popularity in after 2001.
- systematic review conducted in the core subjects of social science, like....





SR Social Science

Systematic Review



Systematic Review & Social Science Quiz 1

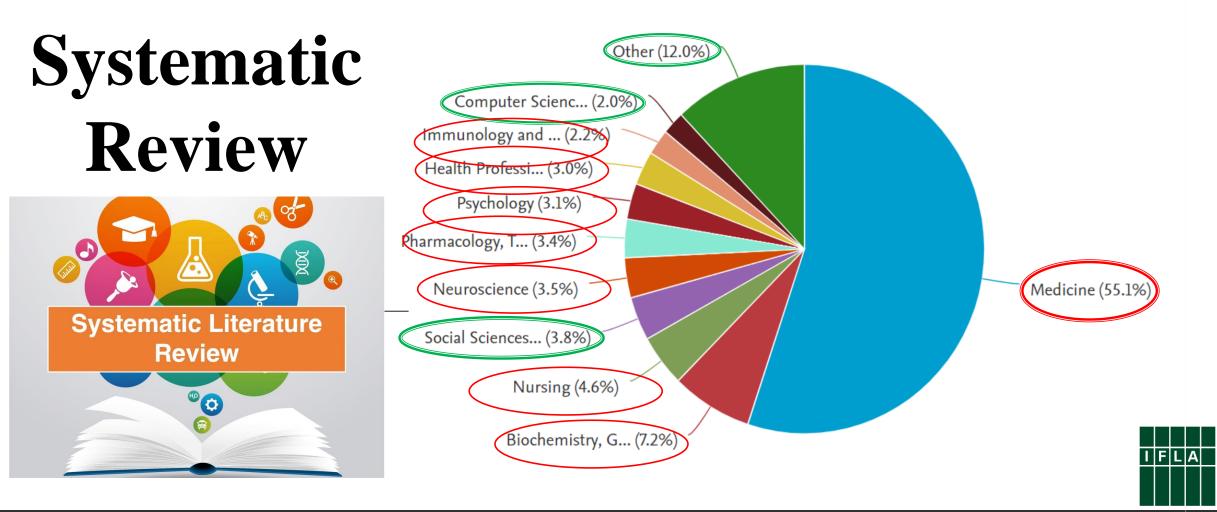
- Systematic review is a
- a. Methodology
- b. Analytical Technique
- c. Data Analysis
- The correct option is a Methodology

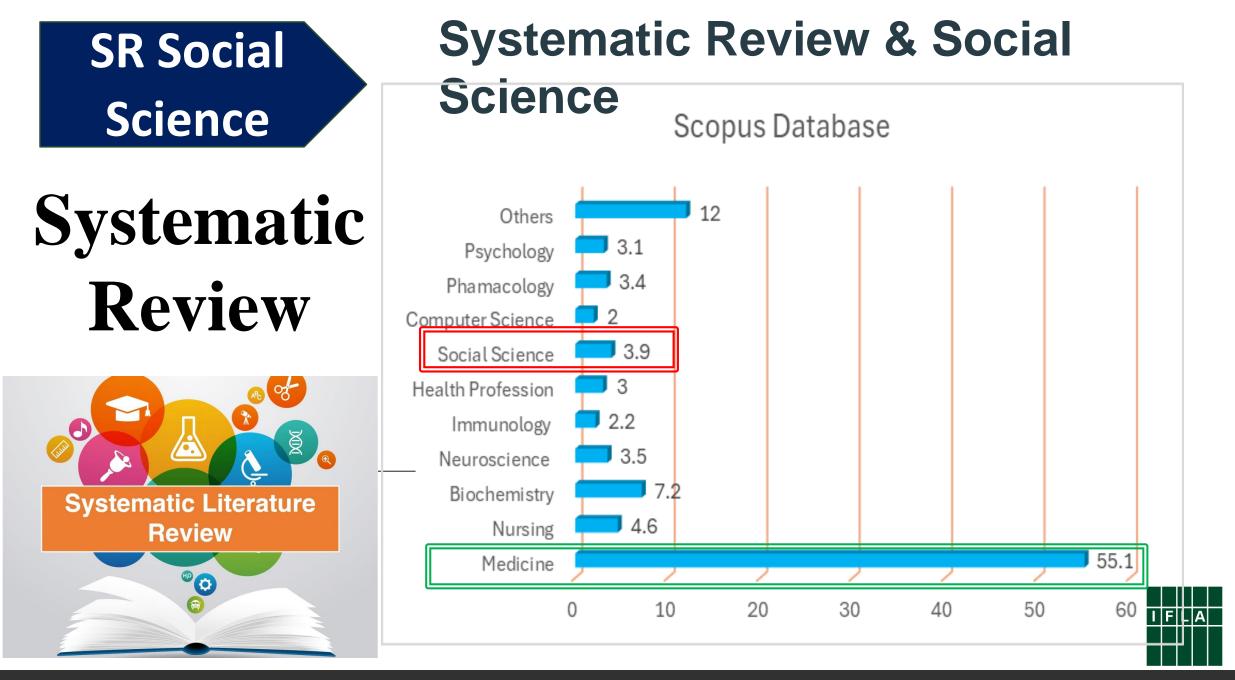
I.	F	L	Α	

SR Social Science

Systematic Review & Social Science

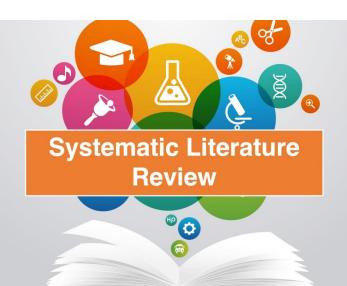
Documents by subject area





SR in Social Science

Systematic Review



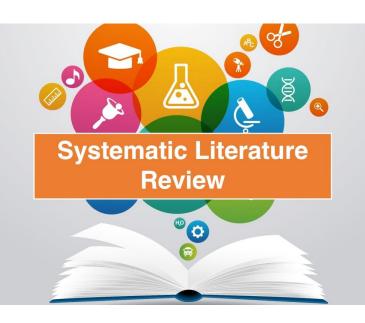
Systematic Review & Social

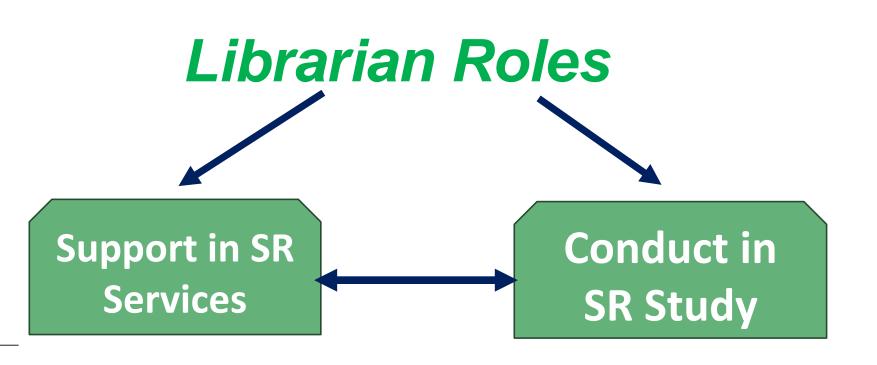
Science

Health Science Do	omain	Social science domain		
Medicine	55.1%	Social science	3.8%	
Biochemistry	7.2%	Others	16.7%	
Nursing	4.6%			
Neuroscience	3.5%			
Immunology	2.2%			
Health Profession	3.5%			
Pharmacology	3.4%			
	79.5%		20.5%	



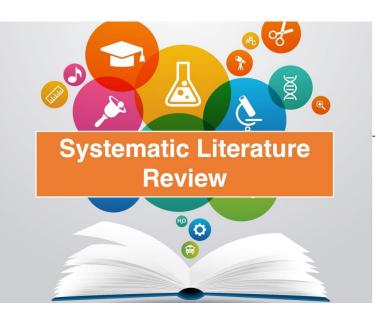
Systematic Review





IFLA

Systematic Review



1. As Subject Matter experts

- 2. Help in developing in Search strategy
- 3. Extract Data from different databases
- 4. Co-Authorship in SR
- 5. Acknowledgement
- 6. Data Management



Systematic Review

1. As a Subject Matter experts In systematic review process librarian roles as subject matter experts in respective topic and area s/he can assist the researcher(s)/ research team.





2. Help in developing in Search **Systematic** strategy Review Familiarity with the research terminology, Subject headings and keywords. This is basic task always Tibrarian support to library patron in DEVELOPING developing Search strategy A SEARCH STRATEGY



Systematic Review

ProQuest			
Basic Search	Advanced Search	About Cha	nge databases
su(eye mov	vement)		
5,124 res	sults 🕹 Expor	t Results	
Sorted by		Select 1-20	0 Selected items
Relevance	~	1	Assessment of neuro-optometric rehabi Kapoor, Neera; Ciuffreda, Kenneth Joseph; Na
Limit to			Abstract/Details testlink
Peer review	ed	2	Time relations for eye-movement measu

3. Extract Data from different databases Library team also serve the library users to extracted the data from various databases like WoS, Scopus, PubMed, ERIC, Google scholar, create the library and duplicate removal.



Systematic Review



4. Co-Authorship in SLR In most cases librarians' extensive role in literature searching, building in search strategy, extracting the data file, duplication removal. Librarians are offered as co-Author.



5. Acknowledgement

Systematic Review

ACKNOWLEDGMENT

Researcher(s)/Author(s) have also acknowledged Librarian support and assistance and acknowledge them in <u>th</u>eir publication's articles, theses, dissertation and conference proceedings.



Systematic Review



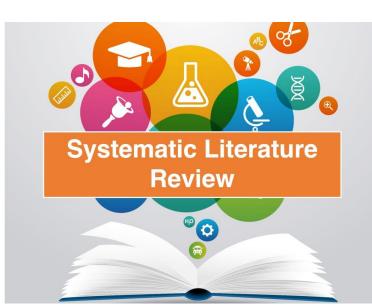
6. Data Management

Data Management pools are created in the universities and research-based institution all the systematic review save in data managment. Libraries are managed/archive such data to support the other researchers.



Steps of Systematic Review

Systematic Review

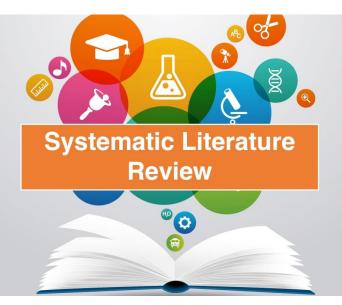


- **1. Topic selection**
- 2. Create Protocol/Conceptualization
- 3. Specific Bibliographical Search
- 4. Extracting the data
- 5. Screen the Abstracts & Title
- 6. Appraises the study
- 7. Analysis and Synthesis
- 8. Report Writing

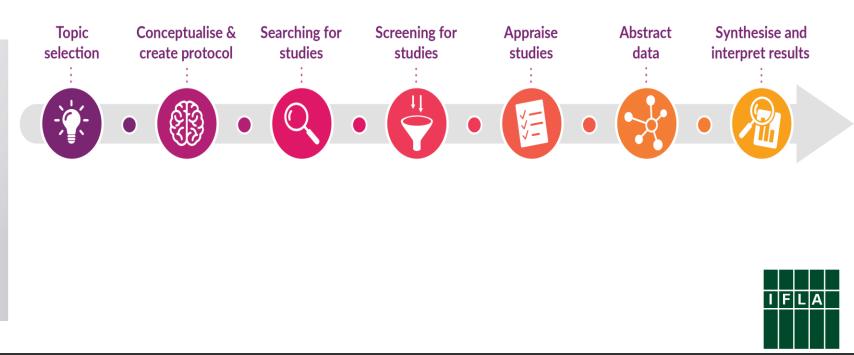


Steps of Systematic Review

Systematic Review

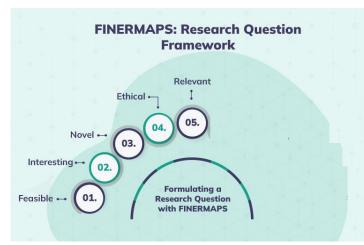


Steps in a systematic review



FINER Criteria

Systematic Review



FINER criteria to conducting a Systematic Review topic

□ F Feasibility: Is the question answerable? Is it doable?

□ | Interesting: Is your question interesting to others? Does it fill a meaningful gap in the literature?

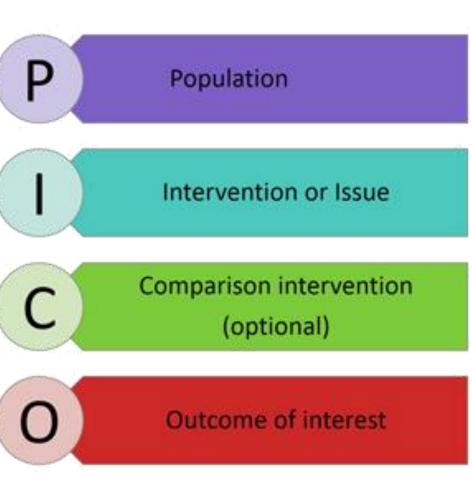
□ N Novel: Is your question novel? New? Looking at a different population?

- E Ethical: Is it ethical?

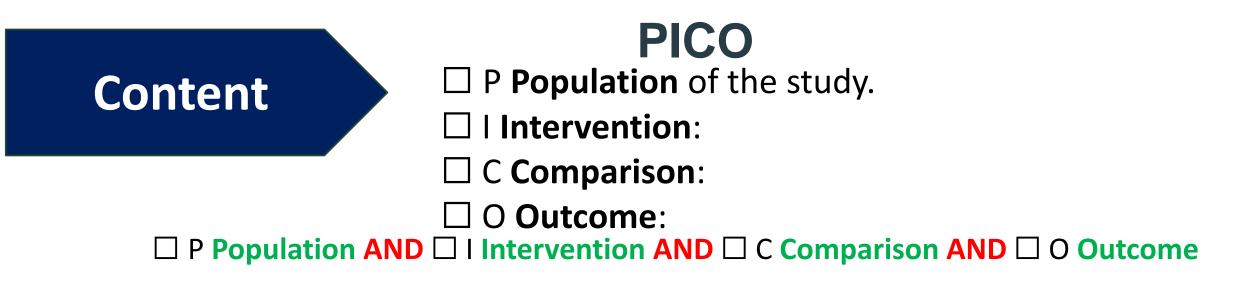
□ R Relevant: Is it relevant or practical for policy and/or /practice?





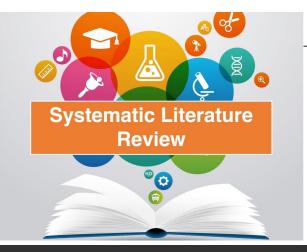






Topic: Artificial Intelligence impact on digital literacy of the Public and private sector universities LIS professionals

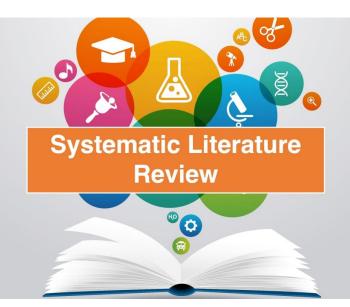
LIS Professional AND Artificial Intelligence AND Public and Private AND Digital Literacy





SR Social Science

Systematic Review



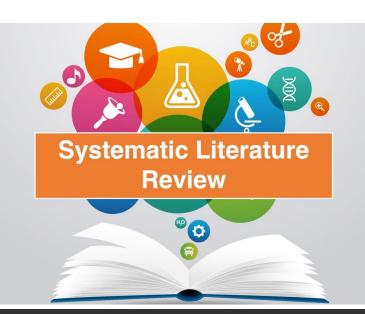
Systematic Review & Social Science Quiz 2

- FINER Criteria F is stand for
- a. Finding
- b. Facility
- c. Feasibility
- The correct option is c Feasibility

F	L	Α	

Databases

Systematic Review

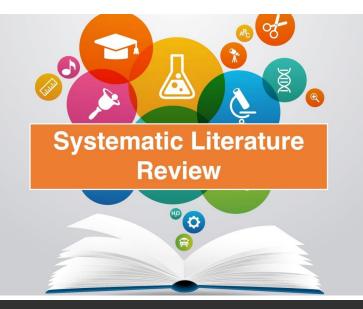


Health Sciences	Social Science
PubMed	Google Scholar
CINAHL	ERIC
Cochrane	Scopus
OVID	SSCI
EMBAS	EMERLAD
WoS	WoS
PsyInfo	EBSCO Social Science
Medline	LISA
	LISTA

IFLA

PRISMA

Systematic Review

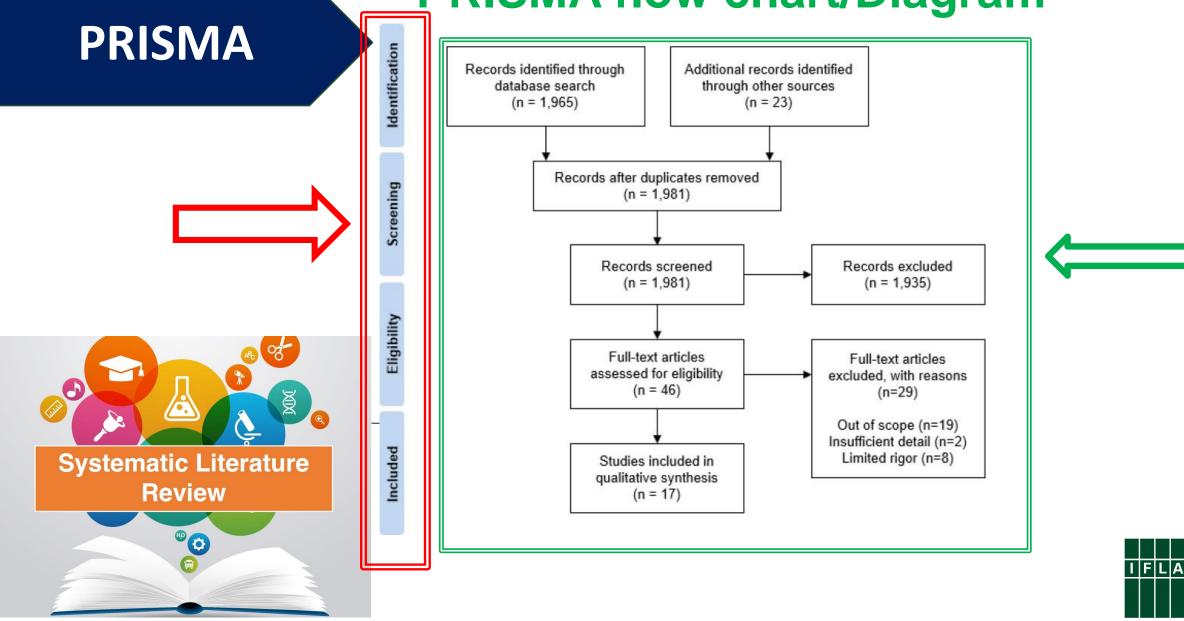


PRISMA flow chart/Diagram

- □ P **Preferred**
- □ R **Reporting**
- □ | Items
- □ S Systematic Review
- 🗆 M Meta
- \Box A Analysis



PRISMA flow chart/Diagram

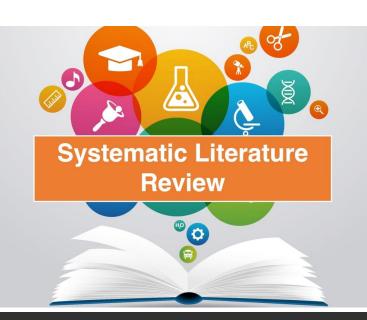


Software

Software for use of SR

Systematic 1. Endnote Review





2. Mendeley

3. Zotero

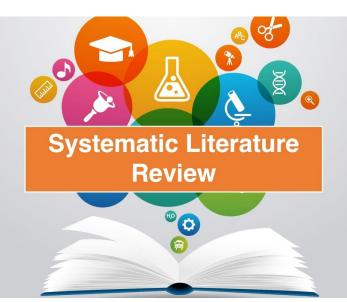






SR Social Science

Systematic Review



- Systematic Review & Social Science Quiz 3
- PRISMA is a
- a. Picture
- b. Flow chart
- c. Protocol
- The correct option is b Flow Chart





3.

Systematic Literature Review

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ی DistillerSR 4. DistillerSr

2. Covidance Covidence

Research Rabbit

5. MAXQDA

6. Abstracl

abstrackr

I F L A

Systematic Review in the realm of Social Science Muhammad Yousuf Ali, PhD Associate Librarian, The Aga Khan University Karachi Pakistan

ResearchRabbit

Report Writing

The last stage is to report writing of the systematic review basis of the synthesis literature and submitted for the publication in reputable journals.







Recommendations



1. Build Data pool to register the Systematic review studies like current practice in health Science where Systematic review registered in Cochrane and PROSPERO.

- 2. Social Science database needs more advance filters like PubMed and Ovid. Google scholar and Scopus should add such advance filters for the effective search results.
- 3. Like Cochrane online course Medical librarian "systematic review librarian" social science platform also started online course of certified systematic review librarian in Social science domain.



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Google Scholar : https://scholar.google.com/citations?user=aUSK_kIAAAAJ&hl=e

ResearchGate: https://researchgate.net/profile/Muhammad_Ali118

Website http://profileusuf.wordpress.com

be YouTube 5minutes Information Channel https://www.youtube.com/c/MuhammadYousufAli



YouTube

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