

Dissemination of study results

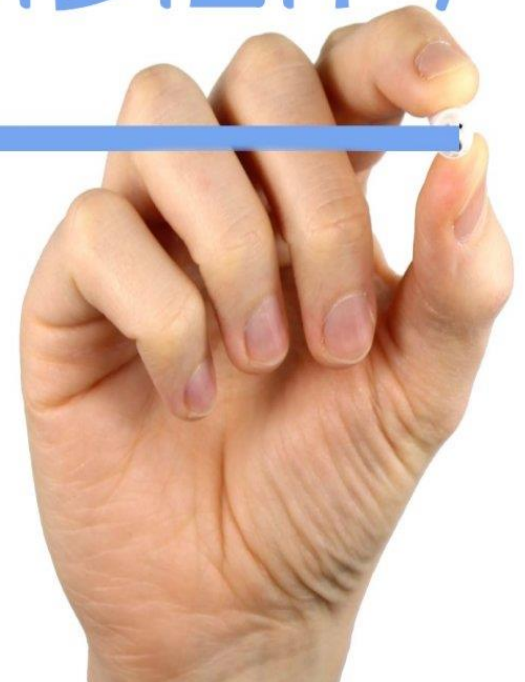
RESPONSIBILITY

Research Skill II

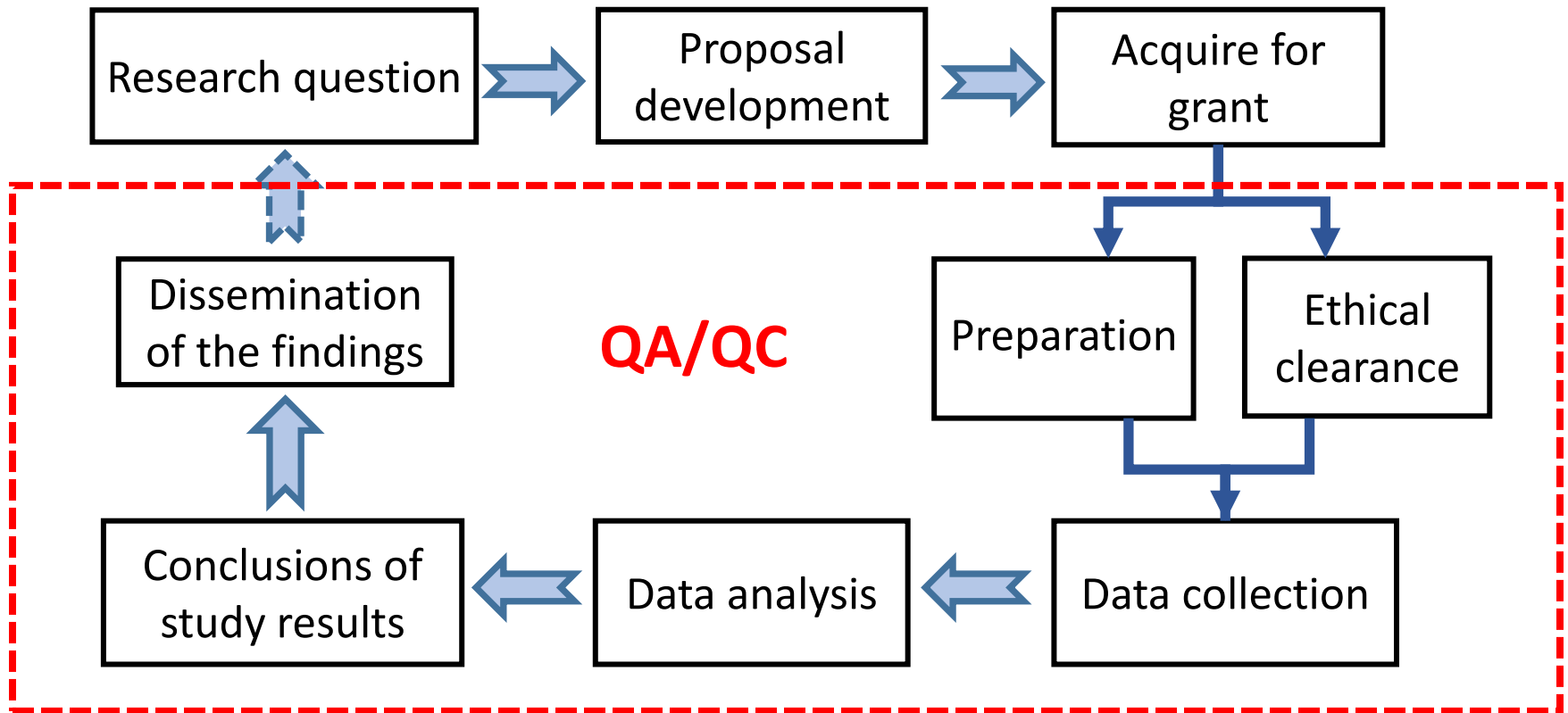
12 October 2018

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Research process/cycle



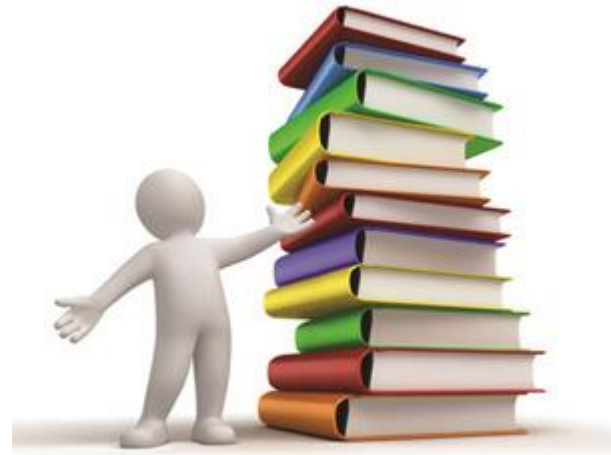
Two main types of dissemination of study results

Presentation

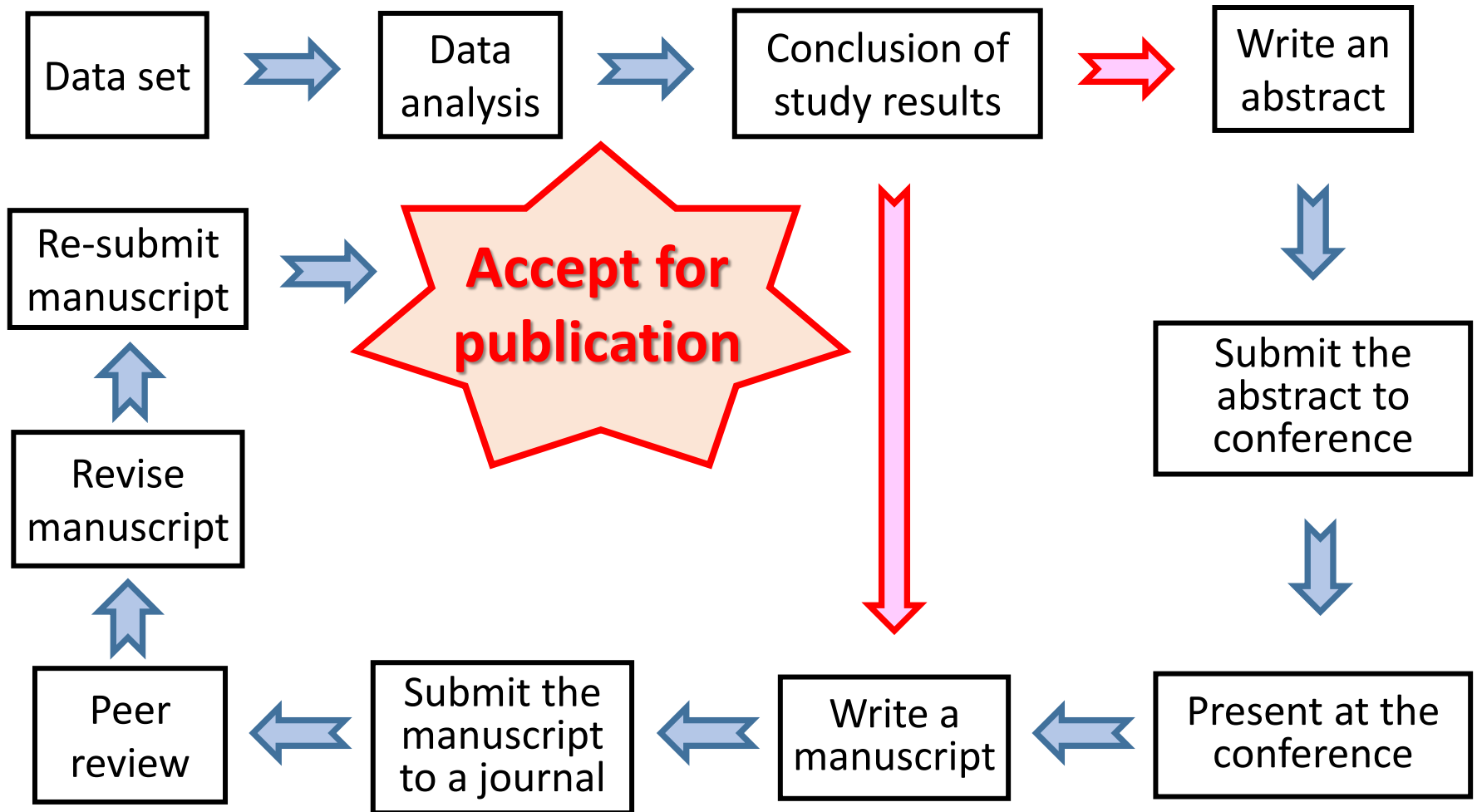


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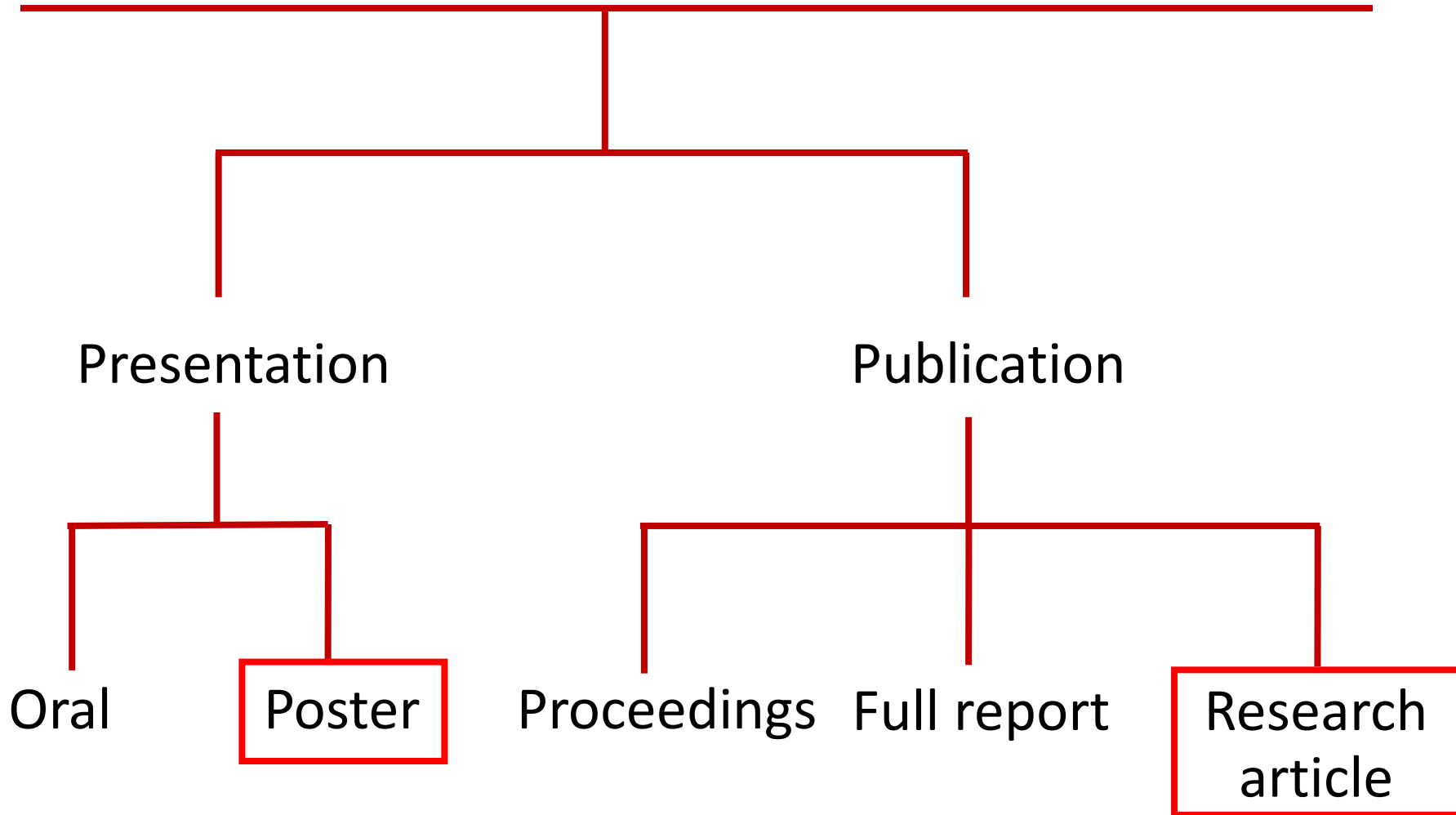
Publication



Steps of research results dissemination



Dissemination of study results



Research article (original article)

- The most important form of medical research result publication
- Considered official and will be cited by other articles and text books
- Usually published in a peer-review journal through a peer review process
- The authors must comply with the guideline of each journal on the format of the contents and references

Before start working

- Choose a proper journal
- Journal should be listed the 3 major databases
 - Web of Science (recognized by CMU)
 - Scopus (recognized by Faculty of Medicine)
 - PubMed (recognized by Faculty of Medicine)
- Be familiar with Reference Management software such as EndNote
- Steps of work
 - Results >>> Discussion >>> Methods >>> Introduction >>> Abstract

Typical outline of a research article

- Title
- Author names list
- Abstract and key words
- **Introduction**
- **Methods**
- **Results**
- **Discussion and conclusion**
- Acknowledgement
- Conflict of interest
- Reference



Main contents

Research manuscript: Title

- Revisit the title of your research proposal, start from there
- A good research paper title should
 - covers all the important key words and gives a clear idea about what your manuscript is about
 - captures the readers' attention
 - differentiates the paper from other papers of the same subject area
- Three basic tips:
 - Keep it simple, brief and attractive
 - Use appropriate descriptive words
 - Avoid abbreviations and jargon

5 steps to write a good research paper title

- Step 1: Ask yourself these questions and make note of the answers: What is my paper about? What techniques/ designs were used? Who/what is studied? What were the results?
- Step 2: Use your answers to list key words.
- Step 3: Create a sentence that includes the key words you listed.
- Step 4: Delete all unnecessary/ repetitive words and link the remaining.
- Step 5: Delete non-essential information and reword the title.

[Prevalence of Depression among Chinese **University Students**: A Meta-Analysis.](#)

Lei XY, Xiao LM, Liu YN, Li YM.

PLoS One. 2016 Apr 12;11(4):e0153454. doi: 10.1371/journal.pone.0153454. eCollection 2016.

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Research manuscript: author names list

An author must satisfy three conditions.

1. Contributed substantially to the conception and design of the study, the acquisition of data, or the analysis and interpretation
2. Drafted or provided critical revision of the article
3. Provided final approval of the version to publish

Authors

- **First author:** the one who conduct the research and write the article, take prime responsibility for the integrity of the paper
- **Corresponding author:** responsible for liaising between the authors and journal editor during the publication process, answers the questions from the readers, usually is the senior researcher or the principle investigator of the overall project
- **Co-authors:** the rest of the author team
- Some journal requires information on **author contributions**

RESEARCH ARTICLE

Prevalence of Depression among Chinese University Students: A Meta-Analysis

Xian-Yang Lei^{1,2}, La-Mei Xiao¹, Ya-Nan Liu³, Ya-Min Li¹ *

1 The Second Xiangya Hospital, Central South University, Changsha, Hunan Province, China, **2** Office of the President, Central South University, Changsha, Hunan Province, China, **3** Xiangya Nursing School, Central South University, Changsha, Hunan Province, China

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Abstract

- A summary of the article, usually 300-350 words, allowing the readers to get a quick glance of what is included in the full article.
- It is initially reviewed by the readers to determine if the remainder is worth reading.
- Must be stand alone, provide all significant information including the figures of the results
- Structured similarly to the main content: Introduction, Methods, Results, Conclusion.

Keywords

- Words or phrases that suggest what the paper is about
- Keywords are listed below the abstract of the published article.
- Usually, 3-8 keywords are required at submission
- List them alphabetically
- Keywords will be used as search terms.

Introduction

- Problem statement
 - A really compelling paragraph or two about why this problem matters, and why it's worth studying
- Literature review
 - Review the literature as it relates to your study
 - Should be focused and well organized
- Purpose
 - An explicit statement of the purpose of your study

Methods

- Study setting
 - Where and when the study was conducted
- Study participants
 - Population, sampling technique, sample size calculation
- Measurements
 - Tools, instruments, variables
- Data collection process
 - Steps and methods used to collect information
- Statistical analysis
 - Hypothesis, statistical tests
- Ethical considerations
 - Approve from an IRB, informed consent process

Results

- Shown as written report of results and tables
- Tables should stand alone
- Usually start with characteristics of the participants
- Follow by results that answer the objectives of the study sequentially
- Must tell only the results, discussion is discussed separately

Discussion

- Results interpretation

- Begin by interpreting the results. What do they mean?

How do they relate to prior research (lit review), what you expected (hypotheses)?

- Implications

- A paragraph or two explaining how the results can be used or applied

- Strengths and Limitations

- A paragraph explaining any limitations to your study

Discussion

- Future Research
 - Explain what research should come next, to fill in any gaps or methodological shortcomings
- Conclusion
 - A small paragraph state the conclusion of the study and its implication
- Do not discuss:
 - Result that is not shown in the result section
 - Extraneous ideas or information not covered by the article

Acknowledgement

- Thank people who contribute the research but not been listed as authors
- The funder is sometimes acknowledged here.
- People who are acknowledge must be aware and agreed to be named.

References

- All scientific knowledge in the article need to be cited (except basic knowledge).
- The author has to prepare the manuscript according to reference style specified by the journals.
- Common styles used by medical journals
 - Vancouver
 - American Psychological Association (APA)
- There are programs that help manage the citations, for example Endnote.

Possible results of article submission

- Incomplete submission
- Reject
- Minor revision
- Major revision
- Accept

Possible results of article submission

- Incomplete submission
- Reject
- Minor revision
- Major revision
- Accept

Poster

- A graphic and textual method of presenting research information.
- Visual techniques such as pictures or diagrams rather than just texts can be used.
- Allow researchers to summarize the project into a concise and aesthetically pleasing format.
- Can be viewed and used repeatedly

Characteristics of a good poster

- Stand out from the crowd, visually appealing
- Effectively summarize the important aspects of a given research
- Contents are well organized, clear and understandable without a verbal explanation.
- Texts should be large enough and kept to a minimum
- Use space properly, good layout and format
- Effective use of colors
- Good use of pictures, graphs, and charts