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Objectives

- After this short presentation, you will be able to:
- 1) list different types of research output
- 2) explain about important considerations before sharing the research report
- 3) outline the criteria to find a proper journal

5/27/2020

Different types of research output

- 1) Paper
- 2) Thesis
- 3) Dissertation
- 4) Patent
- 5) Simple report!
- 6) Change



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Important considerations before sharing the research report

- □ Journal selection before writing
- □ Complete, concise& clear writing
- □Some useful questions:
- 1) "do I have a story to say?"
- 2) have I conducted "an original and innovative" research?"
- 3) do my findings have an immediate impact on patients?
- 4) are my audience "local, regional or international"?



Criteria to find a proper journal

- The type of our article
- * Aims and scope of the journals
- Relevance of the findings to the journal's readership
- * References in our article



Criteria to find a proper journal

- ❖ Journal's guide for the authors, word limit & ..., invitation-only journals
- Journals' review and publication timelines
- * Advices from the editorial team by calling or e-mailing them
- The prestige of the journal
- Journal metrics



Journal metrics

- □ Speed
- ✓ Review and online publication
- □ Reach
- ✓ Address for corresponding authors
- ✓ Location of journal usage
- ✓ Open access policies
- ☐Impact metrics
- ✓Impact Factor, SJR, ...



Open access options

- 1) Gold open access
- 2) Green open access



Types of Medical articles

- ***Original article**

- **黎Editorial**
- Letter to editor
- **ℜPersonal views**



Types of research articles (to be continued...)

- *Brief reports, rapid or short communications
- Early communication, not too much data



Types of research articles

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- ☐ Full articles
- ☐Micro-articles
- ➤ Publishing data, software, methods, videos& ...



Steps in scientific writing

- →Design well your research
- → Decide politics
- → Choose journal
- → Read instructions to authors/papers
- **→**Set framework



Steps in scientific writing

- →Prepare drafts
- → Distribute
- **→**Polish
- **→**Wait
- **→**Submit



The basic structure of an article (IMRaD)

☐ Introduction: Why did you start

☐ Methods: What did you do

□ Results: What did you find

□ Discussion: What does it all mean



The basic structure of an article (SIMRAD)

- **□**S: Summary (structured abstract)
- □I: Introduction (what question was asked)
- **M**: **Methods** (how it was studied)
- **R**: **Results** (what was found)
- □A: Analysis (how data was analyzed)
- □D: **Discussion** (what the findings mean)
- **□** Acknowledgements
- **□**References



Preferred order of writing

- 1) Methods
- 2) Results
- 3) Introduction
- 4) Discussion
- 5) Abstract
- References?





Some characteristics of a paper title

- > Specific, accurate, concise, informative and short
- >Enticing and interesting
- ➤ With readily identifiable keywords
- ➤ More flexible than the title of the proposals



Some characteristics of a paper title

- ➤ About 10-15 words, 2 printed lines
- A specified number of characters, including white spaces
- >Not implicit words in some journals' title
- ➤ Beginning words of "on" and "toward"
- ✓ "On the origin of the species" or "Toward tl of asthma ..."

Examples

- The effect of parental smoking on the **development** of asthma and other atopic disease in children: evidence from a birth **cohort study** in NSW, Australia
- 1.Parental smoking and the development of childhood asthma
- ➤ Respiratory health of Australians
- 2. Asthma and atopy in Australian children



Some do's& don'ts to write a paper title

- ➤ As short as possible
- ➤ If relevant, study period and location
- ➤ Not jargon
- ➤ Not abbreviations
- Not phrases such as "a study of", "investigation into", "observations on"

Some important considerations to write a paper title

- ➤ Minimal punctuation
- ➤ Different ways of writing titles
- 1. Effect of asthma on linear growth in children
- 2. Does asthma reduce linear growth?
- 3. Linear growth deficit in asthmatic children
- ➤ "Not to be disappointed if your paper accepted for publication and the title is ultimately rewritten by the journal editors!"

- One of the hardest parts of a paper to write
- Short, arresting
- Funnel down structure
- o Including "what we know", "What we don not know" and "why we did this study"

- In about one page
- At least 3 paragraphs
- 1) The first paragraph:
- ✓ Importance
- ✓ current knowledge



- 2) The second paragraph:
- ✓ Necessity
- ✓ Existing limitations
- √Gap
- ✓ The research question
- ✓ The reason for conducting the current resea

- 3) The last paragraph:
- ✓ Aim or hypothesis
- ✓ Study design and ...
- ✓ Implication
- 4) Theoretical or conceptual framework
- ✓ in introduction or discussion



- As short as possible
- From general issues to research question
- Topic sentences(preferably in the first line)
- Evidence only from the most relevant and valid studies
- No support by" text book knowledge"



- Not definitions and basic information
- Not extra padding
- Cover the text rule
- Some information in discussion
- ° Say what was found, not who found and how
- Consistency in writing and linking words and phrases
- Not about the key results of the current stu
- Summary stops in only basic science

- The most important section
- Details of study design(RCT, Cohort, systematic review, ...)
- Methods(intervention, observation, literature review, ...)
- Methods(Prospective, retrospective, ...)
- The sequence of procedures



- o Participants: sampling frame, inclusion and exclusion criteria
- Participants' privacy, not any identifying information, their informed consent
- The logic behind any groupings (race, ethnicity, ...)
- Self-assigned or observer assigned ethnicity
- Location, sometimes with more details
- Possible contextual effects on the procedures, confounding variables



- Sample size & sample characteristics*
- Details of sample size calculation
- Methods of randomization, allocation, concealment and blinding
- Fewer than 30 participants in each group!
- Group differences at baseline
- 5/27 Take CONSORT statementars, M.D., M.M.Ed, D.H.E.P



- Research tool, psychometric properties of questionnaires, ...
- The way to standardize the research tool
- Reference to the standardized methods& tools, if...
- More details about none-English, inaccessible ones

- Generic name, manufacturer name and doses of a drug
- Brand name and supplier of an equipment
- Adequacy of follow-up
- The specific outcome measure and its validity and reliability



- More details about rare or newly devised equipment
- The way to calibrate and standardize an equipment
- The way to reduce bias
- Comparability between equipment, observers and within participants

- The procedure to analyze data
- Specific details of statistical tests
- Serious bias with incorrect statistical test
- Reference to not simple or well known tests
- Computer packages



- Ethical approval
- Approval from the ethics committee
- Ethical considerations in choosing research design
- o Patients, animals, stem cells, environment
- Details of institutional review board(IRB) approval
- Informed consent from each participant



