



HOW TO WRITE A GOOD SCIENTIFIC PAPER

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INTRODUCTION:

In this poster, firstly we will focus on the Construction of introduction and method to be followed to write a good scientific paper. Secondly we will discuss regarding the presentation of the result(s) of the paper by easily understandable scientific graphs and figures and also how to write a good discussion.

- ❖ Construct an introduction that puts the work in context for the readers to tell them why it is important and relevant.
- ❖ Materials and methods that leave readers in no doubt (about) the work did and they can reproduce the same if they want.
- ❖ Present the results that easily understood and graphs & figures tell most of the results.
- ❖ Discussions of the findings that enable readers appreciate the implications of the work.

OBJECTIVE:

Objective/ Section (Chronologically)	Purpose	Volume (Approx.)
Introduction	Summarize the context of the research work and state the aims clearly.	1page
Methods	Detailing of the entire research work.	2-3 pages
Results	Description regarding study samples, data entry, data analysis and to get the results.	2-3 pages
Discussion (Tables & Figures)	Interpret the findings in context of other standard reference and the ultimate impact of the research work.	3-6 tables or figures (As per requirement) (2-3 pages)
Acknowledgement	Who(s) directly or indirectly participate or inspire to complete the study.	As Required
Reference	Most relevant and recent literature which helps to get an idea to do the study plan.	20-35 references

METHODOLOGY:



❖ Getting Started /Plan to write a scientific paper

First of all to plan for a paper and choose an appropriate journal to publish it. Then hit upon the proper format to write the paper and also to make decision regarding the authorship, contributor as well as who should be acknowledged.

❖ Set the framework for the document

Consult the ‘Instructions to authors’ of the selected journal to submit the paper for its specific requests. Based on that requirement the paper has to be written. A scientific paper, nowadays, is usually presented in the following format:

Title page, Abstract, Introduction, Methods, Results, Discussion, Acknowledgements and References.

❖ The Actual Paper

Title Page:

The Page should state the title of the paper, name of the authors with their respective institutions, and also the name & address of the corresponding author responsible for the future correspondence related to the paper. The brief information regarding the name & type of the research, area of the research, and research method ought to be mentioned here.

The abstract:

Abstract is the summary of the whole research paper. It should be written in very interesting way so that it will attract the readers to read the rest of the paper. The universally used sections in the abstract are background, methods, results, and conclusions.

Introduction:

The introduction part of a good scientific paper describes the works done so far on the intended field, explains the scientist's impulse for doing a research work, the research design and objective, the methodology and the overall summary of the obtained result(s). It should explain the unsolved aspect of the

subject which needs investigation and clearly point out the purpose to do about it. It is better to write one sentence describing the study design also.

Methods:

The methods section should describe how the study was designed and carried out and how the data was analyzed. The sufficient description must be provided regarding the modus operandi of the research, protocol, deviations (if any), amendment (if any), file note (if any), and other essential procedures so that others may replicate the investigation. A diagram or flow chart explaining the steps of the study will always be reader friendly. All the methods performed in the study must be described in this section in an original but not detailed style. To summarize the same methods in such words so that the readers are in no doubt about the research process.

The results:

The result(s) section provides the final findings of the entire research work. In this section, result(s) of the experiment(s) should be presented in such a way that it is easily understood by the

readers, e.g. figures, tables, graphs, flow chart, diagram, pi-chart, multimedia graphics etc. to make the result(s) more succinct and clear. Use the appropriate headings/title above the each table, figure and footnote if required to illuminate the issue(s). The text should highlight the results, the tables should present the actual numerical information, and graphs should be used to demonstrate relationships which cannot readily be seen from an inspection of the tables. Simple tables are actually one of the ready references of the result(s) for the readers from where they verify the conclusion part of the paper. Compare the own findings with the reference data from the previous study (if applicable). Duplication should be avoided.

The Discussion:

Discussion is obviously the data interpretation. Any decision (support/reject the process or hypothesis(es)) must be taken with confidence and proved it absolute based on all the supportive evidences & also the unyielding data/result(s) reference. The discussion should be a balanced, logical and unbiased, focusing on all the observations.

Acknowledgements:

Acknowledge only persons who have made direct/indirect participation in the research process and substantive contributions to the study. Written permission should be obtained from everyone acknowledged by name.

References:

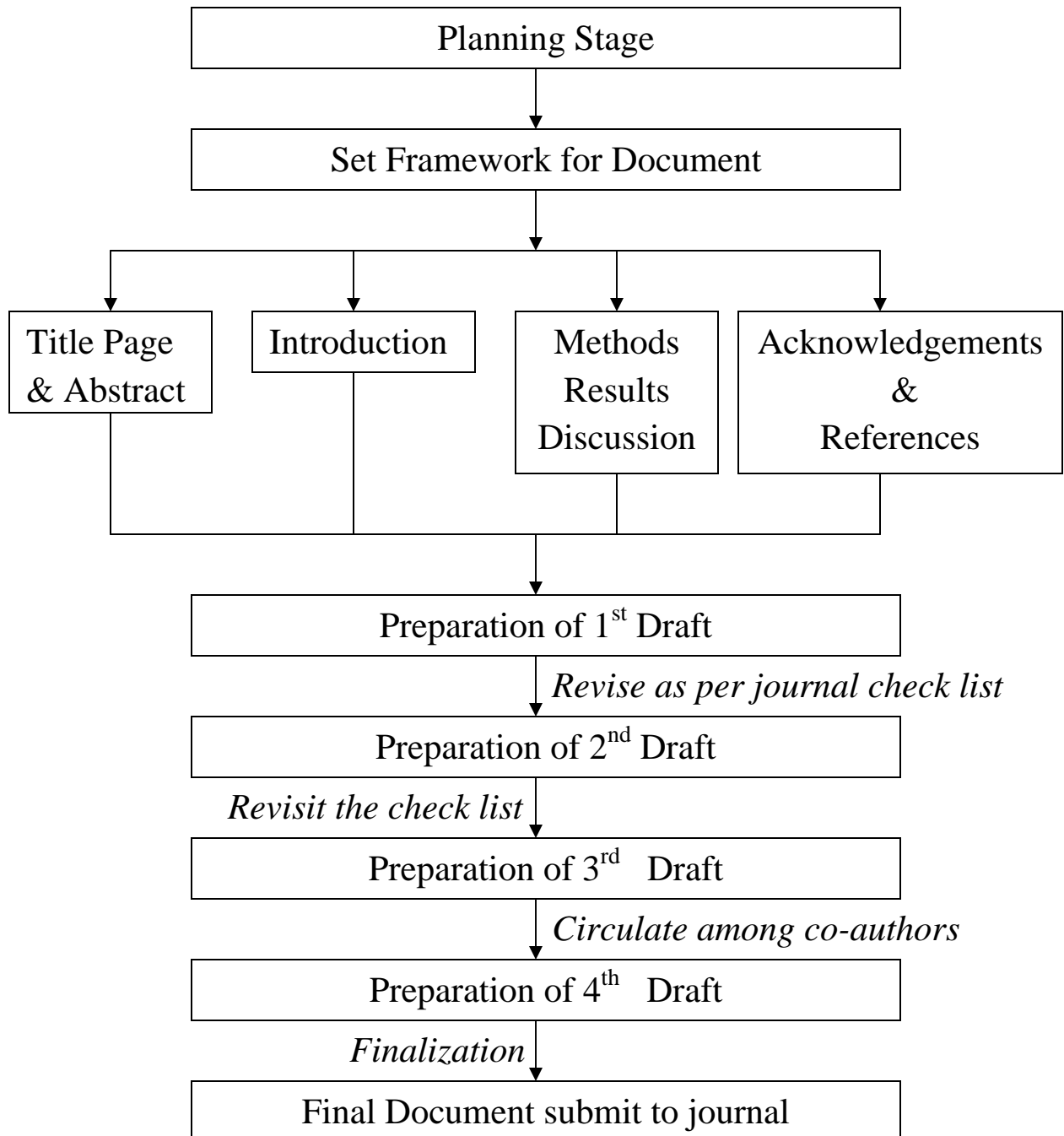
References will be covered all the relevant and recent literature/web-address of published paper/other documental support which helps to get an idea to do the study plan.

Drafting of the Paper:

By this process the first draft/ manuscript of the article/paper is ready. The second draft must to be made to check the first one & revise the content and structure of the article. The process is repeated to produce the third draft which belong the style of the article including the construction of the sentences, choice of words, and the correctness of the grammar. The fourth draft of the article/paper is produced after the consultation with the co-authors. Their comments and suggestions should be considered carefully which improve the quality of the content and make it striking.

Finally the final draft is produced to the scientific journal(s) for publishing.

THE STEPS FOR THE ORIGINATING A GOOD SCIENTIFIC PAPER:



CONCLUSIONS:

Conclude the whole paper on the basis of the data in a non flowery, correct, straight forward and interesting way with proper reason and explanation that gives a kind of perfection. Highlight the most significant result(s) which emphasizes why the research is relevant in the all aspect.

REFERENCE:

- ❖ The presented materials are based on the writing tips given in Different Medical Journals.

'True ease in writing comes from art, not chance .As those who move easiest have learnt to dance' ----- Alexander Pope

