Master of Science in Public Health

***Thesis Title***

**By**

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**Al-Shifa School of Public Health, PIO,**

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**Islamabad, Pakistan**

**(Year)**

|  |
| --- |
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| **(Registration Number)** |

### Dissertation submitted in partial fulfilment of the requirement for the degree of:

Master of Science in Public Health(Year)

to

**Al-Shifa School of Public Health, PIO, Al Shifa Trust Eye Hospital,**

**Faculty of Medicine**

**Quaid-i-Azam University,**

**Islamabad.**

Word Count:

# Declaration

In submitting this dissertation, I certify that I have read and understood the rules and regulations of DPH and QAU regarding assessment procedures and offences and formally declare that all work contained within this document is my own apart from properly referenced quotations.

I understand that plagiarism is the use or presentation of any work by others, whether published or not, and can include the work of other candidates. I also understand that any quotation from the published or unpublished works of other persons, including other candidates, must be clearly identified as such by being placed inside quotation marks and a full reference to their source must be provided in proper form.

This dissertation is the result of an independent investigation. Where my work is indebted to others, I have made acknowledgments.

I declare that this work has not been accepted in substance for any other degree, nor is it currently being submitted in candidature for any other degree.

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**(Name of Supervisor) (Name of Student)**

 (QAU Registration number)

Date: MSPH (Year)

Al-Shifa School of Public Health,

PIO, Al Shifa Trust Eye Hospital Date:

# ABSTRACT

All the pages have been formatted in the accepted font and margin alignment. This is a simple MSc thesis template that can be used for directly typing in your content.However, if you paste your text into the document, do so with caution as pasting could produce varying results. When directly typing into the title page and signature page, the appropriate information should be filled in the required fonts. If one chooses to include a copyright notice, it should appear before the signature page and after the title page (page ii). This can be achieved by clicking Insert > break > page break >ok. Additionally, the page number should not appear on the copyright notice page. This can be achieved by clicking Insert > page numbers > format > start numbering at. I have used this thesis template to answer typical questions that grad students need addressed before they begin writing their theses. When writing an abstract, bear in mind an abstract is a short descriptive summary of your thesis. The number of words accepted might vary e.g. 200-250 words. AnMSc thesis abstract need not exceed two pages. Abstracts are typically written last although they are the most important part of the thesis. They should have a little bit of everything: the background, the scope of your project, the purpose, findings and conclusions. An abstract is neither paragraphed nor cited. It should not be written as a literature review or a discussion of results. In a simplistic manner, your abstract, in a few words, should answer the questions: why should we care about your research; how did you get your results; what did you learn, find, create, invent; and finally what do your results imply?

**\*\*--there is text and instructions throughout that need to be deleted as you add your own text--\*\***

# ACKNOWLEDGMENTS

Gratitude is a great virtue; Though revenge is profitable

Its customary and good manners to say thank you however, where do you draw the line? In some of the theses that I’ve read,the following and more have been acknowledged: God, one’s advisor, one’s better half, parents, children, friends, classmates, lab-mates, lab technicians, lab assistants, pets, fav. Prof, neighbors, physicians, exercise trainer(s), wiki, the maintenance guy, landlord, the school hockey team, secretary, department head, driver, dentist, chauffer, the police, fav. presidential candidate, one’s chef, Led Zeppelin, the maulana,one’s biggest crush, the cable man, the mani/pedi girl, hair stylist, the best/worst/fav waiter(s),the janitor, one’s obs/gyn, one’s mentor, and in a more recent thesis, a folk singer, etc., etc.

Thank you to the University for initiating the idea that a thesis template would be a useful tool for graduate students and in particular to someone you fancy.

Keep in mind that one has to use one’s own words when writing an acknowledgement. Plagiarism is unauthorized.

# TABLE OF CONTENTS

Chapter Page

The table of contents is most easily created automatically (!!) with REFERENCE tools within WORD. Click on the following sequence: insert, reference, index and tables, table of contents, okay. The chapter titles and section headers should have been set to create a table of contents. It is important that the styles laid out in this template are used to maximize the benefits of the template and MS WORD options. The table of contents can be updated as you revise your thesis by using right mouse button and clicking on “update field.” With this approach, there is no need to copy and paste or retype your chapter and section titles.

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# LIST OF TABLES

The list of tables is also easily created automatically (!!) with REFERENCE tools within WORD. Click on the following sequence: “insert, reference, index and tables, table of figures, (find “caption label” box set as – tables), okay.” This can be updated as you revise your thesis by using right mouse button and clicking on “update field.” With this approach, there is no need to copy and paste or retype your chapter and section titles. You need to also use the table captions within the body of your thesis (see examples below). The insertion of table captions in this manner also helps because word automatically renumbers the tables within the text when you insert another table in the middle. There is no need for you to renumber the tables manually

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# LIST OF FIGURES

The List of Figures is most easily created automatically (!!) with REFERENCE tools within WORD. Click on the following sequence: insert, reference, index and tables, table of figures, (find “caption label” box set as – Figures), okay. This can be updated as you revise your thesis by using right mouse button and clicking on “update field.” With this approach, there is no need to copy and paste or retype your chapter and section titles. You need to also use the figure captions within the body of your thesis (see examples below).The insertion of figure captions in this manner also helps because word automatically renumbers the tables within the text when you insert another table in the middle. There is no need for you to renumber the figures manually

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# CHAPTER I: Introduction and Literature Review

The main goal of your introduction is to identify a problem that is worthy of investigation. It must also provide some idea of your research goals and approach to research. Specific objectives can be introduced in the introduction chapter or they can be saved for later after you’ve provided additional background on the topic and state of the current research and its gaps. The Introductory chapter often concludes with a summary of the organization of the thesis, including identification of the general content of specific chapters and appendices.

Ideally, chapter one defines the overall importance of the problem areas and provides an introduction into what you did, chapter two is why you did it in the context of what was previously known, three is how you did it, four is what you found and five is what it all means – putting the pieces together, (what’s your contribution to the research field).

It should be noted that the objectives of your research define the OUTCOME, i.e. what will be learned. They are not a statement of the approach or tasks that are required to meet these objectives. Some examples of reasonable research objectives:

* Determine the effect of Marangoni convection on mixing of molten glasses
* Predict the extent of mechanical degradation of polymers

These both define the resulting outcome (prediction, effect on…) so they are objectives. The related tasks or research approach could be:

* Solve a set of coupled non-linear PDEs…
* Perform experiments on…

These define the required steps; they do not define the outcome so they are NOT objectives.

Some theses and dissertations can have some chapters written as manuscripts that can be submitted to peer-reviewed scientific research journals. In that scenario, the grad student should be the principal author of the pending articles. The thesis or dissertation that includes manuscripts as chapters are not exempt from writing an introduction,background/literature review and overall conclusions and recommendations.

This template uses the MS WORD STYLES extensively to help keep your work in the proper format. These paragraphs use the “thesis-body text” style that is set for Times New Roman, 12 point font with double spaced lines and extra spacing between paragraphs (no need for hard carriage returns). There are also styles for headers, equations, captions and bulleted lists that you can choose to use. See examples throughout this template.

The background and literature review section needs to provide sufficient fundamental background information about the subject to support your objectives, hypothesis (or research questions) and methods, and review the pertinent literature related to the specific problem/hypothesis you are addressing. In Johnson (1), some of the questions that he listed that the literature review should be to answer include:

* what are the fundamental science, math, engineering concepts related to your research (scope),
* what part of your research work has ever been investigated before and what has not, (some of this may have been included in the introduction)
* how does your research work relate to that done by others,
* how have others defined/measured/identified the key concepts of your research,
* what data sources have you used or have other researchers used in developing general explanations for observed variations in a behavior or phenomenon in a concept in your thesis etc.

The lit review (~20 pages or more) should not be limited to the above questions only. Ingeniousness and creativity is expected of a grad student.

Bullets can be single spaced. The above bullets are in the style “thesis-bullets.” When you type bulleted text, highlight the bulleted text and then select “thesis-bullets” from under the format, style menu to automatically change their formatting as above.

## Section header

Given the length of each chapter, it is required to use headers and sub headers (possibly sub-sub headers). These can be numbered or one can just rely on different formats. The section headers in this document are labeled “heading 2” (“heading 1” was used for chapter titles). The heading styles formats should be consistent throughout the document as it helps significantly in creating the automatic table of contents.

### Sub heading (heading 3)

The subheadings here have a different format (“heading 3”) than the section headers.

Sub-sub heading (heading 4)

You can even get to another level of headers, defined here as “heading 4.” The table of contents, however, is currently set up to just include three levels of headers.

### Equations

Equations can be created in MS WORD equation editor or they can be created with other software. Equations should be numbered. They can be numbered within each chapter (e.g., 2.1, 2.2) or they can be numbered sequentially throughout the entire thesis. Equations should be indented or centered with the equation number to the right. The example below and associated “thesis-eqn” style can be used for all your equations.

  [1]

This equation was written with the equation editor. Found through “insert, object, equation editor 3.0. The equation editor can also be found through “tools, customize, commands”, and in categories, look for insert and in the commands section, look for equation editor, drag and drop the icon onto the toolbar. This editor is fine for relatively simple equations, other options are available for more complex equations.

### Tables

Tables should have meaningful information with descriptive headers. You can use the “thesis-table caption” style to define your captions and refer to the table in the text with a “cross reference” (). Word re-numbers table captions automatically when new tables inserted. But you need to right click on any cross references and “update field” if there are changes.

Table 1: Steps in creating a table

|  |  |
| --- | --- |
| **Step #** | **Instruction** |
| Create table caption | Insert, reference, caption, table |
| Format the caption | Format, style, “thesis-table-caption” |
| Create table | Table, insert… |
| Format the table | The formatting of the table can vary, including use of single space as appropriate. Most journals require that tables are formatted using table style “Table Simple 1” format. |
| Reference the table from the text | With the cursor at the location you want to cite the table: insert, reference, cross reference, table, label and number only. |

### Figures

Figures and illustrations are a necessary means of communicating technical information. Often times, figures included in the background/lit review section are copied from existing copyrighted information. In all cases, this is technically inappropriate without also receiving permission from the copyright owner. Citing the source of the figure is not sufficient. This rule is enforced for MSc dissertations because they are submitted to ProQuest for electronic access by others. The enforcement of this rule for MSC theses is dependent on the specific committee members.

Resolution of figures is often a problem in theses. Resolution should be >300 dpi, preferably 600dpi (). You should note that saving images as jpeg files is a sure way to lower the resolution to an unacceptable extent. From experience, a good way is to copy your graphic (for example from PowerPoint or excel) and when pasting it into word, use the “paste special” “as an “enhanced metafile” (). This also substantially reduces the resulting file size in comparison with pasting graphs in as excel graphics.



Figure 1: Example photo with high resolution. Caption created with “insert, reference, caption, figure” and the style changed to “thesis-figure caption.”



Figure 2: Example of high resolution graphic inserted with “paste special, as enhanced metafile”

Begin typing or pasting the rest of your chapter 1 text here (and then deleting above text)

# CHAPTER II: METHODOLOGY

In addition to the detailed methods you need to describe in this section, you need to provide specific objectives and an overview of your approach if they have not already been presented in the introductory chapters. The best place to put those items can vary among theses. Sometimes the background and lit review is really necessary to justify and substantiate the specific objectives and approach and, therefore, it is best to save those details for the beginning of this chapter.

These paragraphs are in “thesis-body text.” Other styles including captions, headers etc. can be used as presented in the previous chapter.Table 2 summarizes all of the styles that can be used with this template.

Table 2: Styles used in this template

|  |  |
| --- | --- |
| Style name | When used |
| Heading 1 | Chapter titles |
| Heading 2 | Primary headers |
| Heading 3 | Sub headers |
| Heading4 | Sub-sub headers |
| Thesis-body text | All paragraphs |
| Thesis-bullets | Bullets |
| Thesis Figure caption | All figure captions.  |
| Thesis table caption | All table captions |
| Thesis-eqn | equations |
| Thesis-reference | Reference list at end of thesis |

# CHAPTER IV: RESULTS

Results, findings, of researchOR manuscripts

This template is best used for directly typing in your content.

# CHAPTER V: DISCUSSION

It is best to also reiterate information in your literature review to help substantiate the findings of your research.In general, there should be no new information presented here. It should be a synthesis of information that you’ve already discussed.

This template is best used for directly typing in your content.

# CONCLUSIONS AND WAY FORWARD

Policy and research implications of your research results, and future research aspects.

This template is best used for directly typing in your content.

# REFERENCES

Includes all references: articles, media facts, books, reports, regulations, internet articles, papers that you referenced from the text.Use the APA style of referencing (www.apastyle.org).

# Appendix A -

Type or paste your appendices here. Appendices are a place to organize and include all of the “extra” material that is important to your research work but that is too detailed for the main text. Examples can include: specific analytical methods, computer code, spreadsheets of data, details of statistical analyses, etc. But, these materials do not speak for themselves. There should be a reference to these materials from the main chapters and there should be some text at the beginning of each appendix to briefly explain what the information is and means that is included in that appendix.

# Appendix B – Consent Form

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