

COURSE CURRICULUM

This course is composed of video lectures detailing the step-by-step process from project inception to publication.

Lesson 1: How to Start a Research Project?

This lesson will discuss the preliminary stages of building a research project, including the following topics:

- What are the different study designs?
- What is a research question?
- How to evaluate research ideas?
- How To Find Research Ideas?
- How To Perform A Quick Literature Review?
- How To Perform A Detailed Literature Review?
- What Is The IRB?

What Is The IRB?

Total video length without quizzes and exercises: 1 h 50 min

Lesson 2: Variables and Data

This lesson will focus on how to build a variable list for your research project and what you need to do prior to collecting data, including the following topics:

- Finding the patients
- Identifying the variable list
- Choosing the definitions
- Identifying the team
- Identifying the tasks
- Identifying authorship
- Collecting the data

Total video length without quizzes and exercises: 1 h 35 min

Lesson 3: Data is Complete, Now What?

This lesson will discuss how to prepare and interpret your data, including the following topics

- Cleaning the data
- How to make the job of your statistician easier?
- Interpreting categorical data
- Interpreting continuous data

Total video length without quizzes and exercises: 40 min

Lesson 4: Manuscript Writing: Before You Start Writing

Manuscript writing does not have to be daunting. This lesson will go over strategies to help you plan and optimize the manuscript writing process.

Total video length without quizzes and exercises: 18 min

Lesson 5: Manuscript Writing | Introduction

This lesson will discuss the details of how to write the introduction section of the manuscript, including the following topics:

We will start by discussing the details of how to write the introduction section of the manuscript.

The following points will be discussed:

- The outline
- Examples of well-written and poorly written introductions
- Efficiency in writing
- An example of how to start with a draft and the subsequent changes made
- Verb tense
- The gap in knowledge
- The study hypothesis
- Linking words
- Reference managers
- Plagiarism and grammar checks

Total video length without quizzes and exercises: 1 h 6 min

Lesson 6: Manuscript writing | Methods

This lesson will discuss how to write the methods section of the research paper, including the following topics:

The following points are included:

- What to include in the methods section
- Tips for writing the methods
- The statistical analysis paragraph of the methods
- Discussion of the methods section using 4 study examples

Total video length without quizzes and exercises: 47 min

Lesson 7: Manuscript writing | Results

This lesson will discuss the details of how to write the results section of the research paper.

The following points are included:

- How to create your tables
- Discussion of tables using study examples
- Figures (bar graphs, box plots, Kaplan-Meier curves)
- What to include in the results section
- Tips for writing the results section
- Discussion of the results section using two study examples
- Commonly used verbs and phrases in the results section

Total video length without quizzes and exercises: 54 min

Lesson 8: Manuscript writing | Discussion

This lesson will discuss how to write the discussion section of the research paper, including the following topics:

- The structure of the discussion section and tips for writing an effective discussion.
- The opening paragraph
- Comparison to prior literature (similarities and differences)
- Summarizing prior studies
- Paraphrasing
- Interpretation of your study results
- Implications of your research findings
- Limitations of your study
- Future directions
- Study conclusion

- Discussion of the above-mentioned points using several study examples

Total video length without quizzes and exercises: [1 h 38 min](#)

Lesson 9: Abstracts

Choosing the right journal is a critical step for your research project. Submission is also a long process, often requiring revision. This lesson will go over the submission process, including the following topics:

- Structured vs. unstructured abstracts
- Abstract section
- How to write an abstract
- Visual abstracts
- Conference abstracts

Total video length without quizzes and exercises: [1 h 38 min](#)

Lesson 10: Submission and Acceptance

Choosing the right journal is a critical step in your research project. Furthermore, submitting your manuscript is one step in the long process of publishing your research project. More likely than not you will receive questions from the reviewers. This lesson will go over the steps after you are done with your manuscript writing including the following:

- Choosing the right journal.
- What if your manuscript is rejected?
- Responding to reviewers.

Total video length without quizzes and exercises: [57 min](#)

Lesson 11: Poster Presentations

Presenting your research at conferences is essential to increase the visibility of your science, share your findings with the scientific community, and establish connections within the field. That's why we dedicated a lesson to show you how to create an interactive effective poster presentation. The following points will be discussed in this lesson:

- Structure of a poster presentation
- Tips on how to create poster presentations
- Poster Examples
- New way of making posters
- How to present a poster
- Poster title
- Poster templates

Total video length without quizzes and exercises: [1 h 21 min](#)

Lesson 12: Literature Review

This lesson will discuss how to write a literature review from beginning to end, including the following topics:

***Note: This lesson is only available for subscriptions of >3 months.**

- Steps for writing a literature review
- Systematic review vs. comprehensive literature review
- Tips for writing a literature review
- Defining the question
- Literature search

- The outline
- Writing the introduction
- The structure of a paragraph
- How to write a paragraph for a literature review
- Multiple exercises and assignments

Total video length without quizzes and exercises: 1 h 21 min

Lesson 13: How to publish >20 manuscripts in one year?

This lesson will cover the secrets of being productive during a research year including a detailed discussion of the following:

- Efficiency
- Time management
- Multitasking
- Mentorship
- Teamwork
- Quantity vs. quality

Total video length without quizzes and exercises: 42 min

Last Updated on 11/11/2022.