Additional Resources for Reading Academic and Scientific Papers

This is a living document that aims to build a better understanding and access to academic and scientific papers. Sections are organized based on their content and type of format which includes research papers, PDFs, videos etc. Please click on the hyperlinked titles in each section to view the selected resource.

We invite you to explore the table of contents to view the resources.

We value your feedback and welcome suggestions for additional resources.

Email: contact@pxphub.org

Contents

Glossary Resource Links:

Different terms and definitions are used in research communities and academic settings. Below are some glossary resources that provide helpful definitions when reviewing the resources linked within this document.

	Title	Author	Format
1.	**CIHR Jargon Buster**	Canadian Institutes of Health Research (CIHR)	Webpage
2.	**Clinical Research Glossary**	Multi-regional Clinical Trials	Webpage
3.	**What is Digital Health? An overview of key terms**	Carol Forde-Johnston	Video

1. Reading Scientific Papers and Understanding Terminology

	Title	Author	Format
1.	**How to read a scientific Paper**	Purdue University	**PDF** (Deck presentation)
2.	**Critique/ Review of Research Article**	University of Calgary	**PDF**
3.	**Guide to Reading Research Papers**	Amyotrophic Lateral Sclerosis (ALS) Canada	
4.	**A Checklist for Communicating Science and Health Research to the Public**	National Institutes of Health	**Webpage**
5.	**Reading Scientific Papers: Understanding and Analyzing Empirical Articles**	Trent University	
8.	**How to Read a Scientific Article**	Utah State University	**Video**
9.	**Tutorial: How to Read and Comprehend Scientific Research Articles**	University of Minnesota	
10.	**How to read a journal article**	Helpful Professor	

2. Overview of Study Methods

	Title	Author	Format
1.	The Pros and Cons of Data Collection Methods	State of Michigan	PDF
2.	How to Write the Methods Section of a Research Paper	Dartmouth University	
3.	Different Research Methods: Strengths and Weaknesses	The Learning Scientist	Webpage
4.	Study Designs	Oxford University	
5.	Qualitative or Quantitative Research?	McGill University	
6.	Types of Research Methods	Ross Avilla	Video
7.	How to Critique a Research Article - for Healthcare Students and Researchers	Carol Ford-Johnston	
8.	Epidemiological Studies: A Beginners Guide	Let's Learn Public Health	

3. Interpreting Quantitative Statistical Results: Medical and Scientific Articles

	Title	Author	Format
1.	**Cheat Sheet for Statistics 101**	University of North Carolina	**PDF**
2.	**Medical Statistics Made Easy**	Martin Dunitz, 2003	
3.	**Statistics IV: Interpreting the results of statistical tests**	McCluskey et al., 2007	**Paper**
4.	**Statistical Significance**	Tenny & Abdelgawad, 2023.	
5.	**Introduction to Statistics**	Curtin University	**Webpage**
6.	**Teach me statistics in half an hour!**	Zedstatistics	**Video**
7.	**p-values: What they are and how to interpret them**	StatQuest with Josh Starmer	

4. Reviewing and Analyzing Qualitative (e.g., interviews, storytelling, testimonials) Papers

	Title	Author	Format
1.	**How to use and assess qualitative research methods**	Busetto et al., 2020	**Paper**
2.	**A Guide to Selecting Participatory Research Methods Based on Project and Partnership Goals**	Duea et al., 2022	
3.	**21 Appreciative Inquiry as transformative methodology: Case studies in health and wellness**	Nel & Govender, 2019	
4.	**How to…assess the quality of qualitative research**	Stenfors et al., 2020	
5.	**Qualitative Study**	Tenny et al., 2022	
6.	**Critical appraisal of Qualitative Studies**	University of Oxford	**PDF**
7.	**Appreciative Inquiry as Conversation**	Norum, 2008	**PDF** (Book Chapter)
8.	**Participatory Action Research**	Australian Government	**Website**
9.	**Qualitative Research Methods**	Global Health with Greg Martin	**Video**
10.	**Fundamentals of Qualitative Research Methods**	Yale University	

5. Accessing Digital Health and Artificial Intelligence and Digital Health Equity

	Title	Author	Format
1.	**Digital Health**	Ronquillo et al., 2023	**Paper**
2.	**The Role of AI in Hospitals and Clinics: Transforming Healthcare in the 21st Century**	Varnosfaderani, S.M. & Forouzanfar,M., 2024	
3.	**What is Digital Health?**	U.S. Food and Drug Administration	**Webpage**
4.	**Ethics and governance of artificial intelligence for health**	World Health Organization	
5.	**How are doctors using AI?**	Canadian Medical Association	
6.	**Health Data for All (video series)**	Health Data Research Network Canada	**Video**