

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.

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Glossary Resource Links:

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

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

1. Reading Scientific Papers and Understanding Terminology

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

2. Overview of Study Methods

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