

OER for Effective Scientific Communication in Health Sciences

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Introduction

The landscape of health sciences education is evolving, necessitating innovative approaches to teaching scientific communication. This project addresses the critical gap in accessible, discipline-specific resources for scientific writing within health research. We aim to elevate the quality and accessibility of educational materials for students and professionals alike.

Project Summary

At the heart of our initiative is the creation of a comprehensive suite of Open Educational Resources (OER) dedicated to the art and science of writing for peer-reviewed health research journals. From the fundamentals of scientific writing to the complexities of the IMRaD structure (with four main sections: Introduction, Methods, Results, and Discussion), our resources offer a step-by-step guide designed to empower researchers at all levels.

Goals and Objectives

1. Develop a dynamic collection of OER content tailored to scientific writing in health research.
2. Craft a detailed, step-by-step guide to scholarly article writing.
3. Promote collaborative writing and reproducible research through modern tools and methodologies.

Methodology

Our methodology is rooted in

- Providing an open-access online textbook that systematically explains the scientific writing content in one place.
- Explaining the IMRaD structure, and components of good research questions with real-world examples from published articles.
- Explaining peer-review process, choosing appropriate journals, and how to respond to reviews from collaborators and peer-reviewers.
- Explaining collaborative tools that can help with productive collaborations.

The screenshot shows a web browser displaying the OER website. The left sidebar contains a table of contents with sections: 1 Research Question (1.1 Framing a research question u..., 1.2 Evaluating research questions ..., 1.3 Tips for formulating a good res..., 1.4 Statistical analysis plans), 2 Introduction Section (2.1 Funnel shape, 2.2 Examples, 2.3 Common pitfalls, 2.4 Tips), and 3 Methods Section (3.1 The "Bridge", 3.2 Examples, 3.3 Significance of the methods se...). The main content area is titled "Scientific Writing for Health Research" by Ehsan Karim & Dahn Jeong & Fardowsa Yusuf, with a last update of 2022-05-08. Below this is a "Project Summary" section that states: "This website has a focus on scientific communication and manuscript writing. Specifically, communicating with the scientific community about an epidemiological study that has been answer a particular health research question and appropriately interpreting the study results often write research articles suitable for submission to an academic peer-reviewed health journal." There is also a QR code and a link to the online textbook.

Impact & Implications

By democratizing access to specialized knowledge on scientific writing, this project stands to significantly enhance the educational landscape for health researchers worldwide. Beyond the SPPH Ph.D. program, our OERs aim to serve a global audience interested in writing manuscript about analysis of healthcare data, aligning with the overarching mission of the OER Fund to foster accessible and equitable education.



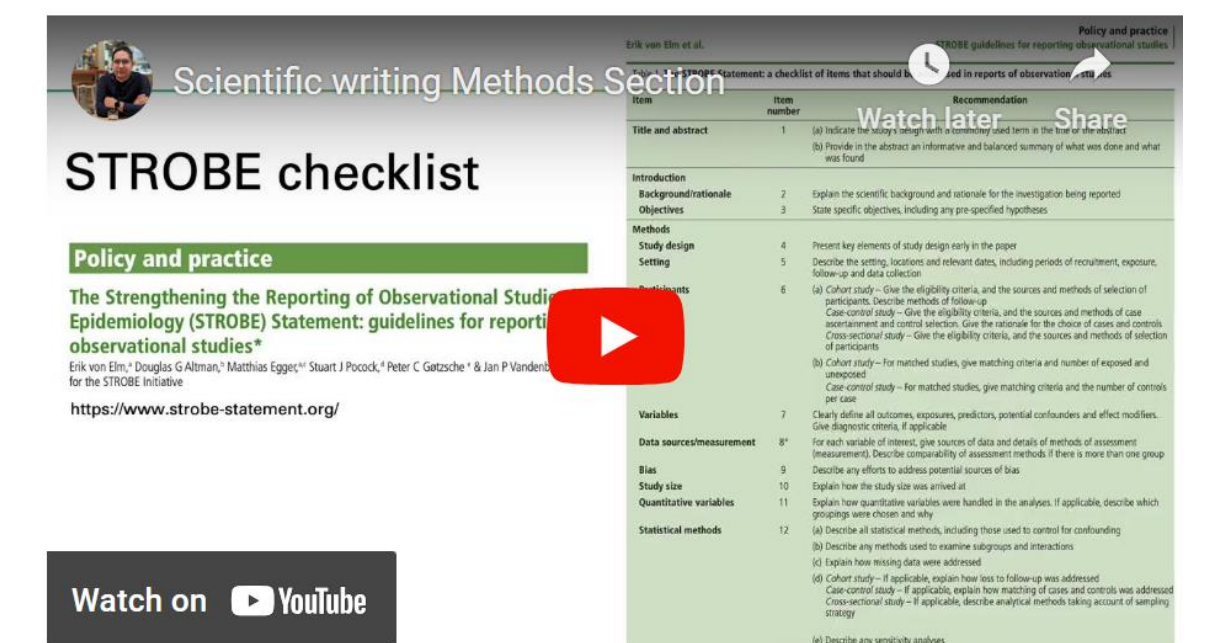
Online textbook

The OER final product

License Type: Attribution 4.0 International (CC BY 4.0)

Evaluation & Sharing Plan

Our commitment to impact is matched by a robust evaluation framework, and have incorporated course participant feedback and external reviews obtained from anonymous surveys.



The dissemination of our resources through GitHub and YouTube ensures widespread accessibility, inviting continuous engagement and contribution from the global research community.

Reference

- Karim ME, Jeong D, Yusuf F (2021) Scientific Writing for Health Research: <https://ehsanx.github.io/Scientific-Writing-for-Health-Research/>
- [UBC OER collection](#)

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