

Expediting Accessibility and Transparency in Research: Lessons in and Strategies for Making it Happen

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Session Description

Increasing research accessibility and transparency is a high priority in communication sciences and disorders. As an actionable example, this session will describe open science practices our research team has taken in pursuit of this goal. We will overview four possible strategies: (a) the Template for Intervention Description and Replication (TIDieR) checklist, (b) pre-registration, (c) data repositories and use of supplemental material, and (d) personal websites. We will illustrate why and how we used them in our recent scoping review of caregiver-child communication interventions to ground the use of these strategies. We will provide participants with resources and information to make accessibility and transparency happen today...or tomorrow!

The Template for Intervention Description and Replication (TIDieR) Checklist

The TIDieR checklist (Hoffmann et al., 2014) is a valuable tool that can help address dissemination and diffusion. Developed by Hoffmann and colleagues in 2014, TIDieR provides a comprehensive and standardized framework for reporting and replicating interventions in research studies. By following the TIDieR checklist, researchers can ensure they report all relevant information about their interventions, including the intervention components, the mode of delivery, the frequency and duration, and the intended outcomes. In the session, we will describe how our team completed the TIDieR for each study included in our scoping review to document these components.

Pre-Registration

Preregistration refers to specifying your study hypothesis, methods, procedures, and analyses before conducting it and submitting the study plan to a registry to document it (El Amin et al., 2022; Nosek et al., 2015). While this practice is gaining popularity, the primary barrier CSD researchers report about preregistration is that they do not know how to do it. El Amin and colleagues (2022) suggested that direct access and support to use this practice are necessary to overcome this barrier. As such, we will describe the process in the context of our scoping review, providing information about where, when, and how participants can conduct a similar process.

Data Repositories and Use of Supplemental Material

A data repository is a digital platform or database where researchers can store and share research data and associated metadata (Baker & Yarmey, 2009). It is a central location for storing, accessing, and sharing research data, making it easier for researchers to find and use data relevant to their research. Ding and colleagues (2014) highlight the importance of data interlinking and propose an ontology-based data integration approach to link different datasets together and generate a linked open accessibility repository. Data repositories provide a valuable resource for CSD researchers, enabling them to share, access, preserve, discover, and analyze research data (El Amin et al., 2022). We will describe how CSD researchers can accelerate research progress, promote transparency and reproducibility, and advance communication sciences and disorders knowledge using data repositories.

Personal Websites

A personal or lab website provides a legal and free place for researchers to share their published manuscripts' preprints (El Amin et al., 2022). In turn, researchers can increase accessibility to their research for individuals impacted by paywalls. We will provide an overview of how CSD researchers can build a website and ways to use it as a platform to share their research with a broader audience.

A Few Resources To Get You Started

The Template for Intervention Description and Replication (TIDieR) Checklist

- Hoffman et al., 2014: <https://www.bmj.com/content/348/bmj.g1687>
- EQUATOR Network Website: <https://www.equator-network.org/reporting-guidelines/tidier/>
- TIDieR Checklist PDF: <https://www.equator-network.org/wp-content/uploads/2014/03/TIDieR-Checklist-PDF.pdf>

Preregistration

- Center for Open Science Pre-Registration: <https://www.cos.io/initiatives/prereg>
- APA Question and Answers: <https://www.apa.org/pubs/journals/resources/preregistration.pdf>
- Association for Psychological Science: <https://www.psychologicalscience.org/observer/research-preregistration-101#.WR3GyFPyvOT>

Data Repositories and Use of Supplemental Material

- Center for Open Science: <https://osf.io>
- Descriptions of Data Repositories: <https://www.nature.com/sdata/policies/repositories#general>
- Selecting a Data Repository: <https://sharing.nih.gov/data-management-and-sharing-policy/sharing-scientific-data/selecting-a-data-repository>

Resources for Personal Websites

- CSDisseminate: <https://www.csdisseminate.com/advanced-options>
- GitHub Website: <https://georgecushen.com/create-your-website-with-hugo/>

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