

9-9-2023

Cracking the Code: The Systematic Development of a Matrix to Increase Credible and Dependable Coding of Qualitative Data

Greta Gray, MS, OTR/L
Thomas Jefferson University, gretagrayer@gmail.com

Follow this and additional works at: <https://jdc.jefferson.edu/otppdcpresentations>



Part of the Occupational Therapy Commons

[Let us know how access to this document benefits you](#)

Recommended Citation

Gray, MS, OTR/L, Greta, "Cracking the Code: The Systematic Development of a Matrix to Increase Credible and Dependable Coding of Qualitative Data" (2023). *Post-Professional Occupational Therapy Doctorate Culminating Presentations*. Paper 5.

<https://jdc.jefferson.edu/otppdcpresentations/5>

This Article is brought to you for free and open access by the Jefferson Digital Commons. The Jefferson Digital Commons is a service of Thomas Jefferson University's [Center for Teaching and Learning \(CTL\)](#). The Commons is a showcase for Jefferson books and journals, peer-reviewed scholarly publications, unique historical collections from the University archives, and teaching tools. The Jefferson Digital Commons allows researchers and interested readers anywhere in the world to learn about and keep up to date with Jefferson scholarship. This article has been accepted for inclusion in Post-Professional Occupational Therapy Doctorate Culminating Presentations by an authorized administrator of the Jefferson Digital Commons. For more information, please contact: JeffersonDigitalCommons@jefferson.edu.

Title of the Doctoral Presentation: Cracking the Code: The Systematic Development of a Matrix to Increase Credible and Dependable Coding of Qualitative Data

Date of Doctoral Presentation: September 9, 2023

Authors: Greta Gray MS, OTR/L, Marie-Christine Potvin PhD, OTR/L

Affiliations: *Thomas Jefferson University, Department of Occupational Therapy, 901 Walnut Street, Philadelphia, PA 19107*

Abstract: A systematic, credible, and dependable coding matrix was developed to deductively code the qualitative data from the *Clinician's Perceptions of Infusing Coaching into their Occupational Therapy Practice* study (CPIC). A coding matrix is used to organize qualitative data into meaningful units of text to be interpreted by the researchers. Codes for this project were deductively organized under categories from Roger's Diffusion of Innovation Theory (RDIT), a framework that identifies how a new idea is adopted in practice. Five preliminary coders, with one leading the process, participated in the development of the coding matrix to reduce the risk of bias influencing the coding of the data. There was a total of ten rounds of preliminary coding necessary to develop the coding matrix. Two preliminary coders' coding was considered and analyzed for each round of coding. After each round of coding had occurred, the lead coder calculated percentages agreement and analyzed similarities and discrepancies between coders. Then, the preliminary coders met to discuss codes, discrepancies, agreements, and definitions. New preliminary coders were integrated into the coding matrix development process at intervals to enhance the clarity of the coding matrix. The results was the creation of a systematic, credible, and dependable coding matrix with 80% interrater reliability. Coding ended at the tenth round when no additional categories or codes emerged from the data. The coding matrix includes definitions of categories and codes, examples of codes, and coding notes. The completed coding matrix will be used to code the transcripts in the CPIC study.

Synopsis: Through this project, an organized list of codes by categories, or coding matrix, was developed for the *Clinician's Perceptions of Infusing Coaching into Practice* study. A systematic and rigorous process was used to increase the credibility and dependability of the coding matrix. The process included an audit trail, multiple preliminary coders, preliminary coding data analysis, and a reflexivity journal.

Acknowledgments: The authors thank for their contributions to this project, Dr. Namrata Grampurohit, Dr. Nicole Gerhardt, Dr. Vikita Patel and Dr. Marissa LaSalle, as well as students: Kyndall Scheffey, OTS, Hannah Berry MSOT, SROT, and Rachel Smith MSOT, OTR/L

Keywords: *Qualitative methodology, coding matrix development, Coaching in Context Model, Roger's Diffusion of Innovation Theory*

Presentation completed in partial fulfillment, for the first author, of a Post Professional Occupational Therapy Doctorate degree at Thomas Jefferson University.