



Government Information in Evidence Synthesis: A Case Study of Space Resources

Elizabeth Sanders, Lamar University
2023 Government Information Day(s)
December 12, 2023

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Presentation Outline

- Background: Evidence Synthesis & Government Information
- Case Study: Scoping Review of Space Motion Sickness
- Sources

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Background: Evidence Synthesis

- Systematic, transparent investigation resulting in a substantive, diverse body of evidence, which is then summarized (Eklund & Takahashi, 2017)
- Common Types
 - Scoping Review
 - Systematic Review
 - Meta-Analysis (Sutton et al, 2019)

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Background: Government Information in Evidence Synthesis

- Evidence synthesis requires searching grey literature, including government information
- Government information = major source of grey literature among researchers (Woods et al, 2020; Cooper et al, 2019)

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Case Study: Background

- Players: Graduate Student, Faculty Member, Me
- Time: Summer 2023
- Task: Scoping review on efficacy of astronaut training in improving/reducing space motion sickness

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Case Study: Government Information Sources

- Astronaut training = predominantly government information
- Sources Searched/Considered for Government Information
 - AIREX (Aerospace Information and Reports Exchange System)
 - ClinicalTrials.gov
 - Erasmus Experiment Archive
 - Europe PMC
 - NASA Technical Reports Server (NTRS)
 - National Technical Reports Library (NTRL)
 - PubMed
 - PubSpace

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Case Study: Challenges

- Accessibility
 - Russian government information limited
 - Language: English & Spanish only for our team
- Database Differences
 - Search features, especially advanced search features, vary
 - Exporting citation availability not possible in all databases
 - For NTRS, must use API



Sources

- Cooper, K.A., Marsolek, W.R, Riegelman, A.L., Farrell, S.L., & Kelly, J.A. (2019). Grey literature: Use, creation, and citation habits of faculty researchers across disciplines. *Journal of Librarianship and Scholarly Communication*, 7(1). <https://doi.org/10.7710/2162-3309.2314>
- Eklund, K. L. & Takahashi, R. (2017). *A resource for developing an evidence synthesis report for policy-making*. (Health Evidence Network Synthesis Report, no. 50), WHO Regional Office for Europe. <https://www.ncbi.nlm.nih.gov/books/NBK453541/>
- Sutton, A., Clowes, M., Preston, L. & Booth, A. (2019). Meeting the review family: exploring review types and associated information retrieval requirements. *Health Information and Libraries Journal*, 36(3), 202-222. <https://doi.org/10.1111/hir.12276>
- Woods, S., Phillips, K., & Dudash, A. (2020). Grey literature in top nursing journals: A bibliometric study. *Journal of the Medical Library Association*, 108(2), 262-269. <https://doi.org/10.5195/jmla.2020.760>