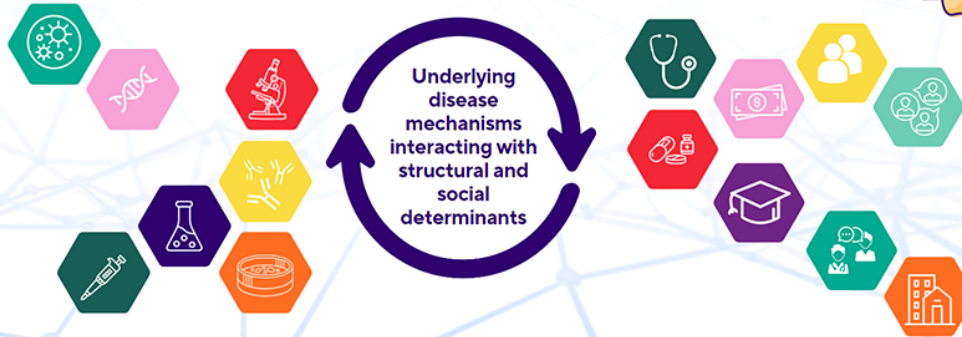




19TH ANNUAL CHILD HEALTH RESEARCH DAYS
Outcomes in Child Health



October 25 + 26, 2023 | RBC Convention Centre, Winnipeg, Manitoba

Abstract Submission Form

CHR D 2023: Abstract Submission Form

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Presenter Status

Post-Doctoral Fellows

Research Category

Community Health / Policy

Role in the project

Design
Perform Experiments
Analyze Data
Write Abstract

Title

Improving play for Children with Physical Disabilities using Assistive Technology: A Scoping Review

Background

Play is a fundamental aspect of development and a basic human right. However, children with physical disabilities (CWPD) often face limited play opportunities.

Objective

This scoping review aims to explore the role of Assistive Technology (AT) in enabling CWPD to play.

Methods

We conducted a scoping review following Arksey and O'Malley's guideline. Literature searches covered the period from January 2000 to March 2022, using databases like MEDLINE, Central, CINAHL, ERIC, Scopus, and EMBASE. Three reviewers screened titles, abstracts, and full-text articles using an online systematic review system. Data extraction and categorization were done using Excel, focusing on AT types, play categories, and evidence levels.

Results

After removing duplicates, our search yielded 5250 papers. Title and abstract screening led to the selection of 58 studies for full-text review, resulting in 31 included papers. These studies identified seven types of AT for CWPD: power mobility, virtual reality, robotics, upper limb adaptations, switch-adapted games, augmentative or alternative communication devices, and mobility aids. Most studies examined cognitive (n=23) or social (n=7) play, with one addressing both. Study designs predominantly included case studies,

descriptive studies, or repeated measures.

Conclusion

This review highlights limited evidence on using AT to support play in CWPD. Considering the importance of play in a child's life, and the ongoing development of AT, further research is needed.

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