



Paediatric Participation Outcomes for Wheelchair Evaluation in Rehabilitation (POWER) Mobility Development of a Toolkit of Measures Phase 1 Delphi Survey Summary of Findings

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WHAT WE DID:



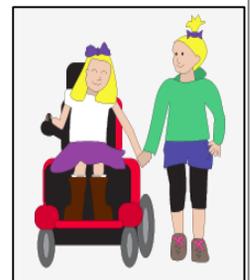
An international panel of 74 parents, therapists and researchers completed four rounds of an on-line Delphi survey over 10 months. Panelists reached consensus ($\geq 80\%$ agreement) on elements for measuring participation of children who need or use power mobility. Elements (describing the 'who,' 'what,' 'where' and 'how' of measuring participation) were ranked according to their importance and then used to compare available tools that measure children's participation in everyday life at home, in school and in the community.

WHY WE DID IT:

With little research demonstrating the significant difference power mobility makes on children's participation, we needed to identify the important elements to measure and appropriate measurement tools to use to advance our knowledge about how power mobility impacts the lives of children and their families.

WHAT WE FOUND:

After reviewing scientific papers we identified 48 elements to consider when measuring childhood participation, along with 22 tools. Panelists agreed that 8 of these elements were important to measure for children aged 18 months to 5 years, while 18 were important for those aged 6 to 12 years. Thirteen tools addressed participation elements deemed important to measure by panelists, with 6 tools measuring many (but not all) elements. Interestingly, panelists identified only one tool for inclusion in a toolkit at our consensus level of $\geq 80\%$ agreement (*the Participation and Environment Measure for Children and Youth*) and that was only for children aged 6 to 12 years.



WHAT IS THE SIGNIFICANCE?

Power mobility equipment is expensive, and this equipment needs to be replaced as children grow or as their needs change. Evidence supporting the value that power mobility makes in the lives of children and their families is needed. Identifying suitable tools for measuring participation lays the groundwork for evaluating the effectiveness of power mobility interventions. Our next steps involve testing how well these participation tools work for children who need or use power mobility.

We sincerely thank all participants and sponsors for contributing to and supporting our research.



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POWER Paediatric Participation Outcomes
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Rehabilitation
Mobility Toolkit

You can find more detail about our research findings in the following
journal articles and conference proceedings:

Field DA, Miller WC, Jarus T, Ryan SE, Roxborough L. (2014). Important elements of measuring participation for children who need or use power mobility: a modified Delphi survey. Developmental Medicine and Child Neurology, first published on-line Dec 15, 2014. DOI: 10.1111/dmcn.12645 ([PubMed Link](#))

Field D, Miller WC, Jarus T, Ryan SE, Roxborough L. Exploring suitable participation tools for children who need or use power mobility: a modified Delphi survey. Developmental Neurorehabilitation, Accepted for publication Jan 3, 2015.
(It should be available on-line shortly)

Field D, Miller WC, Jarus T, Ryan SE, Roxborough L. (2014). Parent, therapist and researcher perspectives regarding important participation elements for children who use power mobility using a Delphi survey. Developmental Medicine and Child Neurology, 56 Supplement 5:51 (summary of the Sept 11, 2014 podium presentation)

Field D, Miller WC, Ryan SE, Jarus T, Roxborough L. Exploring participation measures suitable for children who use power mobility. 30th International Seating Symposium conference proceedings, Vancouver BC, pp. 86-88. (summary of the March 6, 2014 podium presentation)

Field D, Miller WC, Jarus T, Ryan S, Roxborough L. Important elements of participation for children who use power mobility. Canadian Association of Occupational Therapists national conference program, Victoria BC, May 29-June 1, 2013. (abstract of June 1, 2013 poster presentation)

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