Records identified through database searching (n = 454)

Additional records identified through other sources (n = 42)

Records after duplicates removed (n = 259)

Full-text articles assessed for eligibility (n = 96)

Qualitative articles included (n = 12)
[Describing 10 distinct studies]

Quantitative studies providing descriptive or qualitative data (n = 9)

Full-text articles excluded, with reasons (n = 75)
- Descriptive, background or review (n = 19)
- Insufficient detail on outcomes (n = 5)
- Other intervention (n = 4)
- Not peer-reviewed (n = 1)
- Technology focus (n = 11)
- Tool development focus (n = 5)
- Outcomes for children with disabilities could not be isolated (n = 10)
- Not English language (n = 1)
- Quantitative methodology only (n = 19)

Figure 1: Flow chart of search process
# Online Appendix A: Search strategy

<table>
<thead>
<tr>
<th>Date</th>
<th>Database</th>
<th>Search terms</th>
<th>limits</th>
<th># articles retrieved</th>
<th>Articles saved</th>
</tr>
</thead>
<tbody>
<tr>
<td>23rd February 2014</td>
<td>EBSCO MEDLINE and CINAHL</td>
<td>Power* mobility</td>
<td>All child</td>
<td>49</td>
<td>41</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Power* mobility</td>
<td>All child-0-18</td>
<td>58</td>
<td>33</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Power* wheelchair</td>
<td>All child</td>
<td>34</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Power* wheelchair</td>
<td>All child – 0-18</td>
<td>41</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wheelchair/powered</td>
<td>All child</td>
<td>44</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wheelchair/powered</td>
<td>All child – 0-18</td>
<td>38</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>EBSCO PsychInfo</td>
<td>Power* mobility</td>
<td>Childhood and adolescence</td>
<td>19</td>
<td>17</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Power* wheelchair</td>
<td>Childhood and adolescence</td>
<td>19</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>EBSCO ERIC</td>
<td>Power* mobility</td>
<td></td>
<td>27</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Power* wheelchair</td>
<td></td>
<td>19</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>Ovid EMBASE</td>
<td>Power* mobility AND</td>
<td></td>
<td>49</td>
<td>44</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Child*</td>
<td></td>
<td>46</td>
<td>36</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Power* wheelchair</td>
<td></td>
<td>15</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>Ovid MEDLINE</td>
<td>Power* mobility AND</td>
<td></td>
<td>31</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Child*</td>
<td></td>
<td>25</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wheelchairs/ut</td>
<td></td>
<td>11</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>All EBM reviews</td>
<td>Power* mobility</td>
<td></td>
<td>15</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Power* wheelchair</td>
<td></td>
<td>11</td>
<td>3</td>
</tr>
</tbody>
</table>
Online Appendix B: Excluded studies with reasons

- Non primary source studies including background, descriptive or general review articles 1–19
- Articles where insufficient detail on power mobility outcomes for children was provided. 20–24
- Articles where outcomes for children with disabilities could not be isolated 25–34
- Articles with an equipment development focus. 35–45
- Articles with an outcome measurement tool focus. 46–50
- Articles describing outcomes from an intervention other than power mobility. 51–54
- Non-English language publications. 55
- Non-peer reviewed sources. 56
- Quantitative studies providing no qualitative or descriptive data specifically identified to children with disabilities. 57–75

References:


56. Frank A; De Souza L; Evans S; Neophytou C; Comparison of young and old individuals’ use of electric-powered indoor/outdoor wheelchairs (EPIOCs). *Clin Rehabil.* 2008;22:86–94.


