**Appendix A: Complete Database Search Strategy**

English language titles published from database inception through June 1, 2015 were searched in the following databases: PubMed, CINAHL Complete, Cochrane Library, Physiotherapy Evidence Database (PEDRO), OT Seeker, OT Search, PyscINFO, PsycARTICLES, Educational Resources Information Center (ERIC), Web of Science, ProQuest Medical, Medline (ISI), EMBASE, OpenGrey, the New York Academy of Medicine Grey Literature, Health Services Research Projects in Progress (HSRProj), and OpenDOAR. A repeat search was performed in January 2016. The following keywords and subject headings were used or mapped into relevant subject headings for each database: “power\* mobility”, OR “power\* wheelchair”, OR “wheelchair”, OR “power\* chair”, OR “mobility aid”, OR “mobility device”, OR "smart wheelchair", OR "robot assist\*", OR “wheelchair/powered” (where \* indicated the wildcard function specific to each database). Searches were limited to “all childhood” or “childhood” and “adolescence”, “young adult”, then repeated using key words and subject headings combined with the terms: AND "child\*”, OR “infant\*", OR "toddler", OR "teen\*", OR "adolescen\*", OR "young adult\*", OR "student", OR "pediatric", OR "trainee" to ensure no titles were missed. Refer to Appendix A for the detailed search strategy used for each database.

Prior to each search, clear browser search history.

**Pubmed:**

Search 1: “power\* mobility”, OR “power\* wheelchair”, OR “wheelchair”, OR “power\* chair”, OR “mobility aid”, OR “mobility device”, OR "smart wheelchair", OR "robot assist\*", OR “wheelchair/powered” AND "child\*”, OR “infant\*", OR "toddler", OR "teen\*", OR "adolescen\*", OR "young adult\*", OR "student", OR "pediatric", OR "trainee"

Search 2: “power\* mobility”, OR “power\* wheelchair”, OR “wheelchair”, OR “power\* chair”, OR “mobility aid”, OR “mobility device”, OR "smart wheelchair", OR "robot assist\*", OR “wheelchair/powered” limited to: child (birth-18 years), young adult (19-24 years)

**CINAHL Complete via EBSCO interface**

Search 1: “power\* mobility”, OR “power\* wheelchair”, OR “wheelchair”, OR “power\* chair”, OR “mobility aid”, OR “mobility device”, OR "smart wheelchair", OR "robot assist\*", OR “wheelchair/powered” AND "child\*”, OR “infant\*", OR "toddler", OR "teen\*", OR "adolescen\*", OR "young adult\*", OR "student", OR "pediatric", OR "trainee"

Search 2: “power\* mobility”, OR “power\* wheelchair”, OR “wheelchair”, OR “power\* chair”, OR “mobility aid”, OR “mobility device”, OR "smart wheelchair", OR "robot assist\*", OR “wheelchair/powered” limited to: all child, adolescent (13-18 years), adult (19-44)

**Cochrane Library**

Search 1: ("power\* mobility" or "power\* wheelchair" or "wheelchair" or "power\* chair" or "mobility aid" or "smart wheelchair" or “robot assist\*” or “wheelchair/powered”) and ("child\*" or "infant\*" or "toddler" or "teen\*" or "adolescen\*" or "young adult\*" or "student" or "pediatric" or "trainee")

Age limitations were not available on this database. Therefore search only ran once.

**Physiotherapy Evidence Database:** **PEDro**

Search 1: “power\* mobility”, OR “power\* wheelchair”, OR “wheelchair”, OR “power\* chair”, OR “mobility aid”, OR “mobility device”, OR "smart wheelchair", OR "robot assist\*", OR “wheelchair/powered” AND "child\*”, OR “infant\*", OR "toddler", OR "teen\*", OR "adolescen\*", OR "young adult\*", OR "student", OR "pediatric", OR "trainee"

Search 1 did not yield any results, therefore search 2 was performed with only 1 major search term.

Search 2: “power\* mobility”

**OT Seeker**

Search 1: "power\* mobility" OR "power\* wheelchair" OR "wheelchair" OR "power\* chair" OR "mobility aid" OR "smart wheelchair" OR "robot assist\*" OR “wheelchair/powered” AND "child\*" OR "infant\*" OR "toddler" OR "teen\*" OR "adolescen\*" OR "young adult\*" OR "student" OR "pediatric" OR "trainee"

Age limitations were not available on this database. Therefore search only ran once.

**OT Search**

Search 1: "power\* mobility" OR "power\* wheelchair" OR "wheelchair" OR "power\* chair" OR "mobility aid" OR "smart wheelchair" OR "robot assist\*" OR “wheelchair/powered” AND "child\*" OR "infant\*" OR "toddler" OR "teen\*" OR "adolescen\*" OR "young adult\*" OR "student" OR "pediatric" OR "trainee"

Age limitations were not available on this database. Therefore search only ran once.

**PsycINFO via ProQuest interface**

Search 1: “power\* mobility”, OR “power\* wheelchair”, OR “wheelchair”, OR “power\* chair”, OR “mobility aid”, OR “mobility device”, OR "smart wheelchair", OR "robot assist\*", OR “wheelchair/powered” AND "child\*”, OR “infant\*", OR "toddler", OR "teen\*", OR "adolescen\*", OR "young adult\*", OR "student", OR "pediatric", OR "trainee"

Search 2: “power\* mobility”, OR “power\* wheelchair”, OR “wheelchair”, OR “power\* chair”, OR “mobility aid”, OR “mobility device”, OR "smart wheelchair", OR "robot assist\*", OR “wheelchair/powered” limited to: childhood (birth-12 years), adolescence (13-17 years), young adult (18-29 years)

**PsycARTICLES via ProQuest interface**

Search 1: “power\* mobility”, OR “power\* wheelchair”, OR “wheelchair”, OR “power\* chair”, OR “mobility aid”, OR “mobility device”, OR "smart wheelchair", OR "robot assist\*", OR “wheelchair/powered” AND "child\*”, OR “infant\*", OR "toddler", OR "teen\*", OR "adolescen\*", OR "young adult\*", OR "student", OR "pediatric", OR "trainee"

Search 2: “power\* mobility”, OR “power\* wheelchair”, OR “wheelchair”, OR “power\* chair”, OR “mobility aid”, OR “mobility device”, OR "smart wheelchair", OR "robot assist\*", OR “wheelchair/powered” limited to: childhood (birth-12 years), adolescence (13-17 years), young adult (18-29 years)

**ERIC via ProQuest Interface**

Search 1: “power\* mobility”, OR “power\* wheelchair”, OR “wheelchair”, OR “power\* chair”, OR “mobility aid”, OR “mobility device”, OR "smart wheelchair", OR "robot assist\*", OR “wheelchair/powered” AND "child\*”, OR “infant\*", OR "toddler", OR "teen\*", OR "adolescen\*", OR "young adult\*", OR "student", OR "pediatric", OR "trainee"

Age limitations were not available on this database. Therefore search only ran once.

**Web of Science**

Search 1: “power\* mobility”, OR “power\* wheelchair”, OR “wheelchair”, OR “power\* chair”, OR “mobility aid”, OR “mobility device”, OR "smart wheelchair", OR "robot assist\*", OR “wheelchair/powered” AND "child\*”, OR “infant\*", OR "toddler", OR "teen\*", OR "adolescen\*", OR "young adult\*", OR "student", OR "pediatric", OR "trainee"

Age limitations were not available on this database. Therefore search only ran once.

**ProQuest Medical**

Search 1: “power\* mobility”, OR “power\* wheelchair”, OR “wheelchair”, OR “power\* chair”, OR “mobility aid”, OR “mobility device”, OR "smart wheelchair", OR "robot assist\*", OR “wheelchair/powered” AND "child\*”, OR “infant\*", OR "toddler", OR "teen\*", OR "adolescen\*", OR "young adult\*", OR "student", OR "pediatric", OR "trainee"

Search 2: “power\* mobility”, OR “power\* wheelchair”, OR “wheelchair”, OR “power\* chair”, OR “mobility aid”, OR “mobility device”, OR "smart wheelchair", OR "robot assist\*", OR “wheelchair/powered” limited to: newborn (birth-1 month), infant (1-23 months), preschool child (2-5 years), child (6-12 years), adolescent (12-18 years), adult (19-44 years)

**Medline (ISI) via Web of Science interface**

Add MeSH terms selected for all searches.

Search 1: “power\* mobility”, OR “power\* wheelchair”, OR “wheelchair”, OR “power\* chair”, OR “mobility aid”, OR “mobility device”, OR "smart wheelchair", OR "robot assist\*", OR “wheelchair/powered” AND "child\*”, OR “infant\*", OR "toddler", OR "teen\*", OR "adolescen\*", OR "young adult\*", OR "student", OR "pediatric", OR "trainee"

Age limitations were not available on this database. Therefore search only ran once

**EMBASE**

All search terms (“power\* mobility”, OR “power\* wheelchair”, OR “wheelchair”, OR “power\* chair”, OR “mobility aid”, OR “mobility device”, OR "smart wheelchair", OR "robot assist\*", OR “wheelchair/powered”) were mapped into relevant subject headings.

Search1: 'powered wheelchair'/exp OR 'wheelchair'/exp AND ('child'/exp OR 'preschool child'/exp OR 'newborn'/exp OR 'school child'/exp OR 'infant'/exp OR 'adolescent'/exp OR 'young adult'/exp OR 'student'/exp OR 'elementary student'/exp OR 'high school student'/exp OR 'middle school student'/exp OR 'college student'/exp OR 'pediatrics'/exp)

Search 2: 'powered wheelchair'/exp OR 'wheelchair' limited to: newborn (up to 1 month), infant (1-12months), child (1-12 years or unspecified), preschool child (1-6 years), school child (7-12 years), adolescent (13-17 years), young adult (18-24)

**Open Grey**

Search 1: (“power\* mobility”, OR “power\* wheelchair”, OR “wheelchair”, OR “power\* chair”, OR “mobility aid”, OR “mobility device”, OR "smart wheelchair", OR "robot assist\*", OR “wheelchair/powered”) AND ("child\*”, OR “infant\*", OR "toddler", OR "teen\*", OR "adolescen\*", OR "young adult\*", OR "student", OR "pediatric", OR "trainee")

Age limitations were not available on this database. Therefore search only ran once

**HSR Proj: Health Services Research Projects in Progress**

Search 1: (“power mobility”) OR (“power wheelchair”) OR “wheelchair” OR (“power chair”) OR (“mobility aid”) OR (“mobility device”) OR ("smart wheelchair") OR ("robot assistance") OR (“wheelchair/powered”) AND "child” OR “infant" OR "toddler" OR "teen" OR "adolescent" OR ("young adult") OR "student" OR "pediatric" OR "trainee"

Age limitations were not available on this database. Therefore search only ran once

**Open DOAR**

Search 1: “power\* mobility”, OR “power\* wheelchair”, OR “wheelchair”, OR “power\* chair”, OR “mobility aid”, OR “mobility device”, OR "smart wheelchair", OR "robot assist\*", OR “wheelchair/powered” AND "child\*”, OR “infant\*", OR "toddler", OR "teen\*", OR "adolescen\*", OR "young adult\*", OR "student", OR "pediatric", OR "trainee"

Age limitations were not available on this database. Therefore search only ran once

**The New York Academy of Medicine Grey Literature Report**

Search 1: “power\* mobility”, OR “power\* wheelchair”, OR “wheelchair”, OR “power\* chair”, OR “mobility aid”, OR “mobility device”, OR "smart wheelchair", OR "robot assist\*", OR “wheelchair/powered” AND "child\*”, OR “infant\*", OR "toddler", OR "teen\*", OR "adolescen\*", OR "young adult\*", OR "student", OR "pediatric", OR "trainee"

Search 1 did not yield any results, therefore search 2 was performed with only 1 major search term.

Search 2: “power\* mobility”