

Appendix 2. Systematic search conducted in MEDLINE, EMBASE and CINAHL, SCOPUS

Database(s): Ovid MEDLINE(R) Search Strategy:

#	Query	Results from 29 Apr 2024
1	(Access* adj10 (barrier* or challeng* or restrict* or obstacle* or impediment* or difficult* or issue*)).ab,ti.	66,790
2	(Provision* adj10 (barrier* or challeng* or restrict* or obstacle* or impediment* or difficult* or issue*)).ab,ti.	8,055
3	(Provide* adj10 (barrier* or challeng* or restrict* or obstacle* or impediment* or difficult* or issue*)).ab,ti.	106,675
4	(Adoption* adj10 (barrier* or challeng* or restrict* or obstacle* or impediment* or difficult* or issue*)).ab,ti.	7,844
5	Wheelchairs/	5,537
6	Orthotic Devices/	7,015
7	Exoskeleton Device/	1,640
8	Mobility device*.ab,ti.	545
9	Mobility technolog*.ab,ti.	55
10	Wheelchair*.ab,ti.	8,976
11	Scooter*.ab,ti.	865
12	Walker*.ab,ti.	15,558
13	Prosthetic*.ab,ti.	64,965
14	prosthesis/	50,410
15	orthotic*.ab,ti.	3,776
16	Self-Help Devices/	5,878
17	Exoskeleton*.ab,ti.	4,856
18	Orthos*.ab,ti.	26,556
19	power mobility.ab,ti.	135
20	Prosthe* device*.ab,ti.	2,437
21	(Assistive technolog* adj10 mobility).ab,ti.	137
22	(Assistive device* adj10 mobility).ab,ti.	217
23	assistive product*.ab,ti.	114
24	mobility product*.ab,ti.	24
25	Disabled Persons/	48,730
26	Mobility Limitation/	5,333
27	Elder*.ti,ab.	312,960
28	Physical* Disable*.ab,ti.	951
29	Disable*.ab,ti.	29,789
30	Disabilit*.ab,ti.	253,216
31	Walking difficult*.ab,ti.	697
32	Handicap*.ab,ti.	26,114
33	physical* impair*.ab,ti.	3,224
34	physical* Challeng*.ab,ti.	714
35	Ambulat* Difficult*.ab,ti.	90
36	Mobility difficult*.ab,ti.	255

37	Mobility impair*.ab,ti.	1,413
38	Mobility limit*.ab,ti.	1,503
39	Amput*.ab,ti.	54,578
40	Motor difficult*.ab,ti.	553
41	Amputation/	24,235
42	Geriatrics/	31,638
43	(theor* or framework* or model* or taxonom* or classifi* or concept*).ab,ti.	5,908,724
44	(Matching Person and Technology).ab,ti.	22
45	((("abandonment" or "discontinuance") and "model").ab,ti.	665
46	("SETT " or "Student Environment Tasks Tools").ab,ti.	92
47	("WATI" or "Wisconsin Assistive Technology Initiative").ab,ti.	21
48	("ATOMS" or "Assistive Technology Outcomes Measurement System").ab,ti.	113,166
49	1 or 2 or 3 or 4	181,073
50	25 or 26 or 27 or 28 or 29 or 30 or 31 or 32 or 33 or 34 or 35 or 36 or 37 or 38 or 39 or 40 or 41 or 42	703,079
51	5 or 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16 or 17 or 18 or 19 or 20 or 21 or 22 or 23 or 24	179,179
52	43 or 44 or 45 or 46 or 47 or 48	5,978,819
53	49 and 50 and 51 and 52	129
54	limit 53 to english language	123
55	limit 54 to dt=20000101-20240320	121
56	limit 55 to dt=20230615-20240320	7
57	45 or 46 or 47 or 48	113,944
58	49 and 50 and 51 and 57	1

Database(s): **Ovid Embase** Search Strategy:

#	Query	Results from 29 Apr 2024
1	(Access* adj10 (barrier* or challeng* or restrict* or obstacle* or impediment* or difficult* or issue*)).ab,ti.	90,641
2	(Provision* adj10 (barrier* or challeng* or restrict* or obstacle* or impediment* or difficult* or issue*)).ab,ti.	10,610
3	(Provide* adj10 (barrier* or challeng* or restrict* or obstacle* or impediment* or difficult* or issue*)).ab,ti.	133,811
4	(Adoption* adj10 (barrier* or challeng* or restrict* or obstacle* or impediment* or difficult* or issue*)).ab,ti.	9,176
5	Wheelchairs/	11,508
6	Orthotic Devices/	7,508
7	Exoskeleton Device/	1,477
8	Mobility device*.ab,ti.	661
9	Mobility technolog*.ab,ti.	63
10	Wheelchair*.ab,ti.	13,489
11	Scooter*.ab,ti.	1,053
12	Walker*.ab,ti.	18,160
13	Prosthetic*.ab,ti.	77,740
14	prosthesis/	34,227
15	orthotic*.ab,ti.	5,449
16	Self-Help Devices/	3,100
17	Exoskeleton*.ab,ti.	5,373
18	Orthos*.ab,ti.	36,813
19	power mobility.ab,ti.	165
20	Prosthe* device*.ab,ti.	2,852
21	(Assistive technolog* adj10 mobility).ab,ti.	170
22	(Assistive device* adj10 mobility).ab,ti.	311
23	assistive product*.ab,ti.	123
24	mobility product*.ab,ti.	24
25	Disabled Persons/	31,998
26	Mobility Limitation/	15,084
27	Elder*.ti,ab.	443,632
28	Physical* Disable*.ab,ti.	1,219
29	Disable*.ab,ti.	38,656
30	Disabilit*.ab,ti.	357,400
31	Walking difficult*.ab,ti.	1,272
32	Handicap*.ab,ti.	31,880
33	physical* impair*.ab,ti.	4,567
34	physical* Challeng*.ab,ti.	982
35	Ambulat* Difficult*.ab,ti.	136
36	Mobility difficult*.ab,ti.	350
37	Mobility impair*.ab,ti.	1,873
38	Mobility limit*.ab,ti.	1,986
39	Amput*.ab,ti.	68,468
40	Motor difficult*.ab,ti.	767
41	Amputation/	27,148
42	Geriatrics/	34,606

43	(theor* or framework* or model* or taxonom* or classifi* or concept*).ab,ti.	7,279,458
44	(Matching Person and Technology).ab,ti.	32
45	((("abandonment" or "discontinuance") and "model").ab,ti.	827
46	("SETT " or "Student Environment Tasks Tools").ab,ti.	156
47	("WATI" or "Wisconsin Assistive Technology Initiative").ab,ti.	45
48	("ATOMS" or "Assistive Technology Outcomes Measurement System").ab,ti.	80,470
49	1 or 2 or 3 or 4	233,091
50	25 or 26 or 27 or 28 or 29 or 30 or 31 or 32 or 33 or 34 or 35 or 36 or 37 or 38 or 39 or 40 or 41 or 42	958,285
51	5 or 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16 or 17 or 18 or 19 or 20 or 21 or 22 or 23 or 24	189,829
52	43 or 44 or 45 or 46 or 47 or 48	7,328,459
53	49 and 50 and 51 and 52	143
54	limit 53 to english language	140
55	limit 54 to dc=20000101-20240320	138
56	limit 55 to dc=20230615-20240320	10
57	45 or 46 or 47 or 48	81,498
58	49 and 50 and 51 and 57	0

Database(s): EBSCO CINAHL Search Strategy:

#	Query	Results from 29 Apr 2024
S58	S49 AND S50 AND S51 AND S57	0
S57	S45 OR S46 OR S47 OR S48	587
S56	(S54 AND EM 20230620-20240320) AND (S45 OR S46 OR S47 OR S48)	0
S55	S54 AND EM 20230620-20240320	4
S54	S53 AND EM 20000101-20240320	83
S53	(S43 OR S44 OR S45 OR S46 OR S47 OR S48) AND (S49 AND S50 AND S51 AND S52) Limiters - Language: English	87
S52	S43 OR S44 OR S45 OR S46 OR S47 OR S48	1,068,868
S51	S25 OR S26 OR S27 OR S28 OR S29 OR S30 OR S31 OR S32 OR S33 OR S34 OR S35 OR S36 OR S37 OR S38 OR S39 OR S40 OR S41 OR S42	295,657
S50	S5 OR S6 OR S7 OR S8 OR S9 OR S10 OR S11 OR S12 OR S13 OR S14 OR S15 OR S16 OR S17 OR S18 OR S19 OR S20 OR S21 OR S22 OR S23 OR S24	42,403
S49	S1 OR S2 OR S3 OR S4	73,674
S48	(TI "ATOMS " OR AB "ATOMS " OR TI "Assistive Technology Outcomes Measurement System" OR AB "Assistive Technology Outcomes Measurement System")	325
S47	(TI "WATI " OR AB "WATI " OR TI "Wisconsin Assistive Technology Initiative" OR AB "Wisconsin Assistive Technology Initiative")	13
S46	(TI "SETT" OR AB "SETT" OR TI "Student Environment Tasks Tools" OR AB "Student Environment Tasks Tools")	42
S45	TI (("abandonment" or "discontinuance") and "model") OR AB (("abandonment" or "discontinuance") and "model")	207
S44	TI "Matching Person and Technology" OR AB "Matching Person and Technology"	23
S43	TI (theor* OR framework* OR model* OR taxonom* OR classifi* OR concept*) OR AB (theor* OR framework* OR model* OR taxonom* OR classifi* OR concept*)	1,068,584
S42	(MH "Geriatrics")	6,059
S41	(MH "Amputation")	7,629
S40	TI "Motor difficult*" OR AB "Motor difficult*"	246
S39	TI Amput* OR AB Amput*	15,087
S38	TI "Mobility limit*" OR AB "Mobility limit*"	973
S37	TI "Mobility impair*" OR AB "Mobility impair*"	802
S36	TI "Mobility difficult*" OR AB "Mobility difficult*"	162
S35	TI "Ambulat* Difficult*" OR AB "Ambulat* Difficult*"	25
S34	TI "physical* Challeng*" OR AB "physical* Challeng*"	389
S33	TI "physical* impair*" OR AB "physical* impair*"	1,734
S32	TI Handicap* OR AB Handicap*	6,460
S31	TI "Walking difficult*" OR AB "Walking difficult*"	238
S30	TI Disabilit* OR AB Disabilit*	128,095
S29	TI Disable* OR AB Disable*	12,965
S28	TI "Physical* Disable*" OR AB "Physical* Disable*"	711
S27	TI Elder* OR AB Elder*	114,587
S26	(MH "Physical Mobility")	7,823
S25	(MH "Persons with Disabilities")	37,595
S24	TI "mobility product*" OR AB "mobility product*"	6
S23	TI "assistive product*" OR AB "assistive product*"	69

S22	TI ("Assistive device*" n10 mobility) OR AB ("Assistive device*" n10 mobility)	157
S21	TI ("Assistive technolog*" n10 mobility) OR AB ("Assistive technolog*" n10 mobility)	131
S20	TI "Prosthet* device*" OR AB "Prosthet* device*"	406
S19	TI "power mobility" OR AB "power mobility"	136
S18	TI Orthose* OR AB Orthose*	2,498
S17	TI Exoskeleton* OR AB Exoskeleton*	813
S16	(MH "Assistive Technology Devices")	6,771
S15	TI orthotic* OR AB orthotic*	2,702
S14	(MH "Limb Prosthesis")	3,007
S13	TI Prosthetic* OR AB Prosthetic*	12,814
S12	TI Walker* OR AB Walker*	3,878
S11	TI Scooter* OR AB Scooter*	453
S10	TI Wheelchair* OR AB Wheelchair*	5,824
S9	TI "Mobility technolog*" OR AB "Mobility technolog*"	40
S8	TI ("Mobility device*") OR AB ("Mobility device*")	428
S7	(MH "Exoskeleton Devices")	347
S6	(MH "Orthoses")	7,176
S5	(MH "Wheelchairs")	5,140
S4	TI ((Adoption* n10 (barrier* or challeng* or restrict* or obstacle* or impediment* or difficult* or issue*))) OR AB ((Adoption* n10 (barrier* or challeng* or restrict* or obstacle* or impediment* or difficult* or issue*)))	3,272
S3	TI (Provide* n10 (barrier* or challeng* or restrict* or obstacle* or impediment* or difficult* or issue*))) OR AB (Provide* n10 (barrier* or challeng* or restrict* or obstacle* or impediment* or difficult* or issue*)))	40,826
S2	TI ((Provision* n10 (barrier* or challeng* or restrict* or obstacle* or impediment* or difficult* or issue*))) OR AB ((Provision* n10 (barrier* or challeng* or restrict* or obstacle* or impediment* or difficult* or issue*)))	5,221
S1	TI ((Access* n10 (barrier* or challeng* or restrict* or obstacle* or impediment* or difficult* or issue*))) OR AB ((Access* n10 (barrier* or challeng* or restrict* or obstacle* or impediment* or difficult* or issue*)))	29,525

Database(s): **Scopus** Search Strategy:

```
(( ( TITLE-ABS ( access* W/10 ( barrier* OR challeng* OR restrict* OR obstacle* OR impediment* OR difficult* OR issue* ) ) ) ) OR ( ( TITLE-ABS ( provision* W/10 ( barrier* OR challeng* OR restrict* OR obstacle* OR impediment* OR difficult* OR issue* ) ) ) ) OR ( ( TITLE-ABS ( provide* W/10 ( barrier* OR challeng* OR restrict* OR obstacle* OR impediment* OR difficult* OR issue* ) ) ) ) OR ( ( TITLE-ABS ( adoption* W/10 ( barrier* OR challeng* OR restrict* OR obstacle* OR impediment* OR difficult* OR issue* ) ) ) ) ) AND ( TITLE-ABS ( "Disabled Person*" OR "Mobility* Limitation*" OR elder* OR "Physically Disabled" OR disable* OR disabilit* OR "Walking difficult*" OR handicap* OR "physically impair*" OR "Physically Challeng*" OR "Ambulat* difficult*" OR "Mobility difficult*" OR "Mobility impair*" OR "Mobility limit*" OR "Amput*" OR "Motor difficult*" OR amputation* ) ) AND ( TITLE-ABS ( theor* OR framework* OR model* OR taxonom* OR classifi* OR concept* OR "Matching Person and Technology" OR ( abandonment OR discontinuance AND model ) ) ) AND ( TITLE-ABS ( wheelchair* OR "power mobility*" OR "Mobility device*" OR "Mobility technolog*" OR ( "Assistive technolog*" W/10 mobility ) OR ( "Assistive device*" W/10 mobility ) OR orthotic* OR exoskeleton* OR scooter* OR walker* OR prosthet* OR orthos* OR prosthetic* OR "Prosthe* device*" OR orthotic* OR "mobility product*" OR "assistive product*" ) ) AND PUBYEAR > 1999 AND PUBYEAR < 2025 AND ( LIMIT-TO ( LANGUAGE , "English" ) ) ) 173 documents
```

```
(( ( TITLE-ABS ( access* W/10 ( barrier* OR challeng* OR restrict* OR obstacle* OR impediment* OR difficult* OR issue* ) ) ) ) OR ( ( TITLE-ABS ( provision* W/10 ( barrier* OR challeng* OR restrict* OR obstacle* OR impediment* OR difficult* OR issue* ) ) ) ) OR ( ( TITLE-ABS ( provide* W/10 ( barrier* OR challeng* OR restrict* OR obstacle* OR impediment* OR difficult* OR issue* ) ) ) ) OR ( ( TITLE-ABS ( adoption* W/10 ( barrier* OR challeng* OR restrict* OR obstacle* OR impediment* OR difficult* OR issue* ) ) ) ) ) AND ( TITLE-ABS ( "Disabled Person*" OR "Mobility* Limitation*" OR elder* OR "Physically Disabled" OR disable* OR disabilit* OR "Walking difficult*" OR handicap* OR "physically impair*" OR "Physically Challeng*" OR "Ambulat* difficult*" OR "Mobility difficult*" OR "Mobility impair*" OR "Mobility limit*" OR "Amput*" OR "Motor difficult*" OR amputation* ) ) AND ( TITLE-ABS ( "sett" OR "student environment tasks tools" OR "wati" OR "Wisconsin assistive technology initiative" OR "atoms" OR "assistive technology outcomes measurement system" OR ("abandonment" OR "discontinuance" AND "model" ) ) ) AND ( TITLE-ABS ( wheelchair* OR "power mobility*" OR "Mobility device*" OR "Mobility technolog*" OR ( "Assistive technolog*" W/10 mobility ) OR ( "Assistive device*" W/10 mobility ) OR orthotic* OR exoskeleton* OR scooter* OR walker* OR prosthet* OR orthos* OR prosthetic* OR "Prosthe* device*" OR orthotic* OR "mobility product*" OR "assistive product*" ) ) AND PUBYEAR > 1999 AND PUBYEAR < 2025 AND ( LIMIT-TO ( LANGUAGE , "English" ) ) )
```