

APPENDICES**Appendix I: Search strategy**

CINAHL database

S14	S3 AND S6 AND S10 AND S13
S13	S11 OR S12
S12	AB (Program* OR curricul* OR course* OR educat* OR train* OR teach* OR pedagog* OR learn* OR phenomenograph* OR evaluat* OR haptic* OR touch) OR TI (Program* OR curricul* OR course* OR educat* OR train* OR teach* OR pedagog* OR learn* OR phenomenograph* OR evaluat* OR haptic* OR touch)
S11	(MH "Education+") OR (MH "Learning+")
S10	S7 OR S8 OR S9
S9	TI (caregiver* OR carer* OR "care giver*" OR nurse* OR "care aide*" OR "personal support worker*" OR "medical staff*" OR "health care worker*" OR "healthcare worker*" OR "health care" OR "health employee*" OR "health* staff" OR "home care" OR "home health*" OR "nursing home") OR AB (caregiver* OR carer* OR "care giver*" OR nurse* OR "care aide*" OR "personal support worker*" OR "medical staff*" OR "health care worker*" OR "healthcare worker*" OR "health care" OR "health employee*" OR "health* staff" OR "home care" OR "home health*" OR "nursing home")
S8	(MH "Health Personnel+")
S7	(MH "Caregivers")
S6	S4 OR S5
S5	AB (dementia* OR alzheimer* OR "cognit* impair*" OR memor* N2 los*) OR TI (dementia* OR alzheimer* OR "cognit* impair*" OR memor* N2 los*)
S4	(MH "Dementia+")
S3	S1 OR S2
S2	AB ("virtual realit*" OR vr) OR TI ("virtual realit*" OR vr)
S1	(MH "Virtual Reality+")

MEDLINE database

S18	S3 AND S6 AND S13 AND S17
S17	S14 OR S15 OR S16
S16	AB (caregiver* OR carer* OR "care giver*" OR nurse* OR "care aide*" OR "personal support worker*" OR "medical staff*" OR "health care worker*" OR "healthcare worker*" OR "health care" OR "health employee*" OR "health* staff" OR "home care" OR "home health*" OR "nursing home") OR TI (caregiver* OR carer* OR "care giver*" OR nurse* OR "care aide*" OR "personal support worker*" OR "medical staff*" OR "health care worker*" OR "healthcare worker*" OR "health care" OR "health employee*" OR "health* staff" OR "home care" OR "home health*" OR "nursing home")
S15	(MH "Health Personnel+")
S14	(MH "Caregiver Burden")
S13	S7 OR S8 OR S9 OR S10 OR S11 OR S12
S12	AB (Program* OR curricul* OR course* OR educat* OR train* OR teach* OR pedagog* OR learn* OR phenomenograph* OR evaluat* OR haptic* OR touch) OR TI (Program* OR curricul* OR course* OR educat* OR train* OR teach* OR pedagog* OR learn* OR phenomenograph* OR evaluat* OR haptic* OR touch)
S11	(MH "Learning+")
S10	(MH "Education+")
S9	(MH "Program Evaluation+")
S8	(MH "Program Development")
S7	(MH "Nursing Research+")
S6	S4 OR S5
S5	AB (dementia* OR alzheimer* OR "cognit* impair*" OR memor* N2 los*) OR TI (dementia* OR alzheimer* OR "cognit* impair*" OR memor* N2 los*)
S4	(MH "Dementia+")
S3	S1 OR S2
S2	AB ("virtual realit*" OR vr) OR TI ("virtual realit*" OR vr)
S1	(MH "Virtual Reality+")

EMBASE database

1	(dementia or alzheimer* or cognit* impair* or (memor* adj2 los*)).mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword heading word, floating subheading word, candidate term word]
2	exp dementia/
3	1 or 2
4	exp virtual reality/ or exp virtual reality head mounted display/
5	(virtual realit* or vr).mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword heading word, floating subheading word, candidate term word]
6	4 or 5
7	exp education/
8	exp program development/ or exp program effectiveness/ or exp program efficacy/ or exp program evaluation/
9	exp course evaluation/ or exp health care quality/ or exp nursing education/
10	exp learning/
11	(Program* or curricul* or course* or educat* or train* or teach* or pedagog* or learn* or phenomenograph* or lesson* or evaluat* or haptic* or touch).mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword heading word, floating subheading word, candidate term word]
12	7 or 8 or 9 or 10 or 11
13	exp caregiver burden/ or exp caregiver burnout/ or exp caregiver/
14	exp health care personnel/
15	(caregiver* or carer* or care giver* or nurse* or care aide* or personal support worker* or medical staff* or health care worker* or healthcare worker* or health care or health employee* or health* staff or home care or home health* or nursing home).mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword heading word, floating subheading word, candidate term word]
16	13 or 14 or 15
17	3 and 6 and 12 and 16

Scopus database

TITLE-ABS-KEY ((program* OR curricul* OR course* OR educat* OR train* OR teach* OR pedagog* OR learn*) AND {virtual reality} AND (dementia* OR alzheimer* OR {cognitive impairment} OR {memory loss}) AND (care* OR health*))

Web of Science

("virtual realit*" OR vr) AND (dementia* OR alzheimer* OR "cognit* impair*" OR memor* N2 los*) AND (Program* OR curricul* OR course* OR educat* OR train* OR teach* OR pedagog* OR learn* OR phenomenograph* OR evaluat* OR haptic* OR touch) AND (caregiver* OR carer* OR "care giver*" OR nurse* OR "care aide*" OR "personal support worker*" OR "medical staff*" OR "health care worker*" OR "healthcare worker*" OR "health care" OR "health employee*" OR "health* staff" OR "home care" OR "home health*" OR "nursing home")

ProQuest database

noft("virtual realit*" OR vr) AND noft(dementia* OR alzheimer* OR "cognit* impair*" OR memor* N2 los*) AND noft(Program* OR curricul* OR course* OR educat* OR train* OR teach* OR pedagog* OR learn* OR phenomenograph* OR evaluat* OR haptic* OR touch) AND noft(caregiver* OR carer* OR "care giver*" OR nurse* OR "care aide*" OR "personal support worker*" OR "medical staff*" OR "health care worker*" OR "healthcare worker*" OR "health care" OR "health employee*" OR "health* staff" OR "home care" OR "home health*" OR "nursing home")

Appendix II: Data extraction instrument

Articles (countries)	Participants (Sample size)	Study Designs	Barriers	Facilitators	Impacts	Findings
Author, year						
Author, year						
Author, year						
Author, year						
Author, year						
.....						
