

## Multimedia appendix 3: Search strategy all databases

### DATABASE(S): OVID MEDLINE(R) ALL

#### SEARCH STRATEGY:

#	Searches
1	Palliative Care/ or "Hospice and Palliative Care Nursing"/ or exp Terminal Care/ or Palliative Medicine/ or exp Advance Care Planning/ or Terminally ill/
2	(palliative or palliate* or palliating).tw,kf.
3	((terminal* or "end stage*" or endstage* or "advanced stage*" or "late stage*") adj3 (disease* or ill* or care* or caring or treatment* or period* or nurs* or patient*)).tw,kf.
4	(eol or "end of life").tw,kf.
5	(advance*1 adj3 (plan*1 or planning or directive*)).tw,kf.
6	hospice*.tw,kf.
7	1 or 2 or 3 or 4 or 5 or 6
8	exp Telemedicine/
9	Telecommunications/ or exp Telemetry/ or Wireless Technology/ or exp Videoconferencing/
10	Mobile Applications/ or exp Telephone/ or computers/ or microcomputers/ or computers, handheld/ or smartphone/ or minicomputers/ or User-Computer Interface/ or Computer assisted instruction/
11	Internet-Based Intervention/
12	((wearable or wireless) adj2 (technolog* or electronic*1 or device*1)) or (digital adj2 medicine) or (technolog* adj2 (remote or health)) or (remote adj2 care) or ((mobile or internet or electronic* or robot* or remote) adj2 (consultation* or application*1 or device*1)).tw,kf.
13	(telecommunicat* or tele-communicat* or teleconferenc* or tele-conferenc* or app or apps or app-based or mobile-based or "Short Message Service*" or sms or textmessag* or text-messag* or texting or videoconferenc* or video-conferenc* or webconferenc* or web-conferenc* or webcast* or web-cast* or webinar* or web-application* or web-based-application*).tw,kf.
14	(phone*1 or telephon* or smartphone* or smart-phone* or cellphone* or cell-phone* or mobilephone* or mobile-phone* or "personal digital assistant*" or palmpilot* or palm-pilot* or smarthome* or smart-home* or touchscreen* or "touch screen*" or "high tech*" or hightech*).tw,kf.
15	(telemedicin* or tele-medicin* or telehealth* or tele-health* or telecare* or tele-care* or telecari* or tele-cari* or emedic* or e-medic* or ehealth* or e-health* or mhealth* or m-health* or ehomecare* or e-homecare* or e-home-care* or telenurs* or tele-nurs* or teletherap* or tele-therap* or telerehab* or tele-rehab* or erehab* or e-rehab* or teleconsultation* or tele-consultation* or videoconsultation* or video-consultation* or telemonitor* or tele-monitor*).tw,kf.
16	("internet based intervention*" or "web based intervention*" or (digital adj2 intervention*)).tw,kf.

17	8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16
18	7 and 17
19	exp Independent Living/ or Homebound Persons/
20	exp Home Care Services/ or exp Community Health Nursing/
21	((assisted or independent) adj2 living).tw,kf.
22	"community dwelling".tw,kf.
23	(homecare* or home-care*).tw,kf.
24	(housebound or house-bound or homebound or home-bound or home or homes).tw,kf.
25	((community adj2 (healthcare* or health-care* or nurs*)) or (community adj2 health adj2 service*) or "district nurs*).tw,kf.
26	(remote or rural).tw,kf.
27	19 or 20 or 21 or 22 or 23 or 24 or 25 or 26
28	18 and 27
29	limit 28 to yr="2000 -Current"
30	limit 29 to (chinese or danish or english or norwegian or portuguese or spanish or swedish)

#### DATABASE(S): EMBASE

#### SEARCH STRATEGY:

#	Searches
1	exp palliative therapy/ or palliative nursing/ or exp terminal care/ or exp terminally ill patient/
2	(palliative or palliate* or palliating).tw,kw.
3	((terminal* or "end stage*" or endstage* or "advanced stage*" or "late stage*") adj3 (disease* or ill* or care* or caring or treatment* or period* or nurs* or patient*)).tw,kw.
4	(eol or "end of life").tw,kw.
5	(advance*1 adj3 (plan*1 or planning or directive*)).tw,kw.
6	hospice*.tw,kw.
7	1 or 2 or 3 or 4 or 5 or 6
8	exp telehealth/
9	exp telemetry/ or telecommunication/ or wireless communication/ or videoconferencing/
10	exp mobile application/ or telephone/ or mobile phone/ or smartphone/ or computer/ or microcomputer/ or personal computer/ or personal digital assistant/ or computer interface/ or human machine interface/
11	web-based intervention/
12	((wearable or wireless) adj2 (technolog* or electronic*1 or device*1)) or (digital adj2 medicine) or (technolog* adj2 (remote or health)) or (remote adj2 care) or ((mobile or internet or electronic* or robot* or remote) adj2 (consultation* or application*1 or device*1))).tw,kw.

13	(telecommunicat* or tele-communicat* or teleconferenc* or tele-conferenc* or app or apps or app-based or mobile-based or "Short Message Service*" or sms or textmessag* or text-messag* or texting or videoconferenc* or video-conferenc* or webconferenc* or web-conferenc* or webcast* or web-cast* or webinar* or web-application* or web-based-application*).tw,kw.
14	(phone*1 or telephon* or smartphone* or smart-phone* or cellphone* or cell-phone* or mobilephone* or mobile-phone* or "personal digital assistant*" or palmpilot* or palm-pilot* or smarthome* or smart-home* or touchscreen* or "touch screen*" or "high tech*" or hightech*).tw,kw.
15	(telemedicin* or tele-medicin* or telehealth* or tele-health* or telecare* or tele-care* or telecari* or tele-cari* or emedic* or e-medic* or ehealth* or e-health* or mhealth* or m-health* or ehomecare* or e-homecare* or e-home-care* or telenurs* or tele-nurs* or teletherap* or tele-therap* or telerehab* or tele-rehab* or erehab* or e-rehab* or teleconsultation* or tele-consultation* or videoconsultation* or video-consultation* or telemonitor* or tele-monitor*).tw,kw.
16	("internet based intervention*" or "web based intervention*" or (digital adj2 intervention*).tw,kw.
17	8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16
18	7 and 17
19	independent living/ or homebound patient/
20	exp home care/ or exp community health nursing/
21	((assisted or independent) adj2 living).tw,kw.
22	"community dwelling".tw,kw.
23	(homecare* or home-care*).tw,kw.
24	(housebound or house-bound or homebound or home-bound or home or homes).tw,kw.
25	((community adj2 (healthcare* or health-care* or nurs*)) or (community adj2 health adj2 service*) or "district nurs*).tw,kw.
26	(remote or rural).tw,kw.
27	19 or 20 or 21 or 22 or 23 or 24 or 25 or 26
28	18 and 27
29	limit 28 to yr="2000 -Current"
30	limit 29 to (chinese or danish or english or norwegian or portuguese or spanish or swedish)

**DATABASE(S): APA PSYCINFO**

**SEARCH STRATEGY:**

#	Searches
1	palliative care/ or hospice/ or advance directives/ or terminally ill patients/
2	(palliative or palliate* or palliating).tw.

3	((terminal* or "end stage*" or endstage* or "advanced stage*" or "late stage*") adj3 (disease* or ill* or care* or caring or treatment* or period* or nurs* or patient*)).tw.
4	(eol or "end of life").tw.
5	(advance*1 adj3 (plan*1 or planning or directive*)).tw.
6	hospice*.tw.
7	1 or 2 or 3 or 4 or 5 or 6
8	exp electronic health services/
9	digital technology/ or exp artificial intelligence/ or exp computer applications/ or exp electronic communication/ or exp mobile technology/ or exp streaming technology/ or exp wireless technologies/
10	computers/ or exp microcomputers/ or exp mobile devices/
11	((wearable or wireless) adj2 (technolog* or electronic*1 or device*1)) or (digital adj2 medicine) or (technolog* adj2 (remote or health)) or (remote adj2 care) or ((mobile or internet or electronic* or robot* or remote) adj2 (consultation* or application*1 or device*1)).tw.
12	(telecommunicat* or tele-communicat* or teleconferenc* or tele-conferenc* or app or apps or app-based or mobile-based or "Short Message Service*" or sms or textmessag* or text-messag* or texting or videoconferenc* or video-conferenc* or webconferenc* or web-conferenc* or webcast* or web-cast* or webinar* or web-application* or web-based-application*).tw.
13	(phone*1 or telephon* or smartphone* or smart-phone* or cellphone* or cell-phone* or mobilephone* or mobile-phone* or "personal digital assistant*" or palmpilot* or palm-pilot* or smarhome* or smart-home* or touchscreen* or "touch screen*" or "high tech*" or hightech*).tw.
14	(telemedicin* or tele-medicin* or telehealth* or tele-health* or telecare* or tele-care* or telecari* or tele-cari* or emedic* or e-medic* or ehealth* or e-health* or mhealth* or m-health* or ehomecare* or e-homecare* or e-home-care* or telenurs* or tele-nurs* or teletherap* or tele-therap* or telerehab* or tele-rehab* or erehab* or e-rehab* or teleconsultation* or tele-consultation* or videoconsultation* or video-consultation* or telemonitor* or tele-monitor*).tw.
15	("internet based intervention*" or "web based intervention*" or (digital adj2 intervention*)).tw.
16	8 or 9 or 10 or 11 or 12 or 13 or 15
17	7 and 16
18	self-care skills/
19	home care/
20	homebound/
21	((assisted or independent) adj2 living).tw.
22	"community dwelling".tw.

23	(homecare* or home-care*).tw.
24	(housebound or house-bound or homebound or home-bound or home or homes).tw.
25	((community adj2 (healthcare* or health-care* or nurs*)) or (community adj2 health adj2 service*) or "district nurs*).tw.
26	(remote or rural).tw.
27	18 or 19 or 20 or 21 or 22 or 23 or 24 or 25 or 26
28	17 and 27
29	limit 28 to yr="2000 -Current"
30	limit 29 to (chinese or danish or english or norwegian or portuguese or spanish or swedish)

### DATABASE(S): AMED (ALLIED AND COMPLEMENTARY MEDICINE)

#### SEARCH STRATEGY:

#	Searches
1	palliative care/ or exp terminal care/ or terminal illness/ or advance directives/
2	(palliative or palliate* or palliating).tw.
3	((terminal* or "end stage*" or endstage* or "advanced stage*" or "late stage*") adj3 (disease* or ill* or care* or caring or treatment* or period* or nurs* or patient*)).tw.
4	(eol or "end of life").tw.
5	(advance*1 adj3 (plan*1 or planning or directive*)).tw.
6	hospice*.tw.
7	1 or 2 or 3 or 4 or 5 or 6
8	telemedicine/
9	telecommunications/ or telephone/
10	exp computers/ or exp medical informatics/ or computer assisted instruction/
11	((((wearable or wireless) adj2 (technolog* or electronic*1 or device*1)) or (digital adj2 medicine) or (technolog* adj2 (remote or health)) or (remote adj2 care) or ((mobile or internet or electronic* or robot* or remote) adj2 (consultation* or application*1 or device*1))).tw.
12	(telecommunicat* or tele-communicat* or teleconferenc* or teleconferenc* or app or apps or app-based or mobile-based or "Short Message Service*" or sms or textmessag* or text-messag* or texting or videoconferenc* or video-conferenc* or webconferenc* or webconferenc* or webcast* or web-cast* or webinar* or web-application* or web-based-application*).tw.

13	(phone*1 or telephon* or smartphone* or smart-phone* or cellphone* or cell-phone* or mobilephone* or mobile-phone* or "personal digital assistant*" or palmpilot* or palm-pilot* or smarthome* or smart-home* or touchscreen* or "touch screen*" or "high tech*" or hightech*).tw.
14	(telemedicin* or tele-medicin* or telehealth* or tele-health* or telecare* or tele-care* or telecari* or tele-cari* or emedic* or e-medic* or ehealth* or e-health* or mhealth* or m-health* or ehomecare* or e-homecare* or telenurs* or tele-nurs* or teletherap* or tele-therap* or telerehab* or tele-rehab* or erehab* or e-rehab* or teleconsultation* or tele-consultation* or videoconsultation* or video-consultation* or telemonitor* or tele-monitor*).tw.
15	("internet based intervention*" or "web based intervention*" or (digital adj2 intervention*)).tw.
16	8 or 9 or 10 or 11 or 12 or 13 or 14 or 15
17	7 and 16
18	exp independent living/
19	community health nursing/ or exp home care services/
20	((assisted or independent) adj2 living).tw.
21	"community dwelling".tw.
22	(homecare* or home-care*).tw.
23	(housebound or house-bound or homebound or home-bound or home or homes).tw.
24	((community adj2 (healthcare* or health-care* or nurs*)) or (community adj2 health adj2 service*) or "district nurs*").tw.
25	(remote or rural).tw.
26	18 or 19 or 20 or 21 or 22 or 23 or 24 or 25
27	17 and 26
28	limit 27 to yr="2000 -Current"
29	limit 28 to (chinese or danish or english or norwegian or portuguese or spanish or swedish)

#### DATABASE(S): CINAHL COMPLETE

#### SEARCH STRATEGY:

#	Query
S30	S18 AND S27
S29	S18 AND S27

<b>S28</b>	S18 AND S27
<b>S27</b>	S19 OR S20 OR S21 OR S22 OR S23 OR S24 OR S25 OR S26 OR S26
<b>S26</b>	TI (remote or rural) or AB (remote or rural)
<b>S25</b>	TI ((community N1 (healthcare* or health-care* or nurs*)) or (community N1 health N1 service*) or "district nurs*") or AB ((community N1 (healthcare* or health-care* or nurs*)) or (community N1 health N1 service*) or "district nurs*")
<b>S24</b>	TI (housebound or house-bound or homebound or home-bound or home or homes) or AB (housebound or house-bound or homebound or home-bound or home or homes)
<b>S23</b>	TI (homecare* or home-care*) or AB (homecare* or home-care*)
<b>S22</b>	TI "community dwelling" or AB "community dwelling"
<b>S21</b>	TI ((assisted or independent) N1 living) OR AB ((assisted or independent) N1 living)
<b>S20</b>	(MH "Home Health Care+") OR (MH "Home Nursing") OR (MH "Community Health Nursing+")
<b>S19</b>	(MH "Community Living+") OR (MH "Homebound Persons")
<b>S18</b>	S7 AND S17
<b>S17</b>	S8 OR S9 OR S10 OR S11 OR S12 OR S13 OR S14 OR S15 OR S16
<b>S16</b>	TI ("internet based intervention*" or "web based intervention*" or (digital N1 intervention*)) or AB ("internet based intervention*" or "web based intervention*" or (digital N1 intervention*))
<b>S15</b>	TI (telemedicin* or tele-medicin* or telehealth* or tele-health* or telecare* or tele-care* or telecari* or tele-cari* or emedic* or e-medic* or ehealth* or e-health* or mhealth* or m-health* or ehomecare* or e-homecare* or e-home-care* or telenurs* or tele-nurs* or teletherap* or tele-therap* or telerehab* or tele-rehab* or erehab* or e-rehab* or teleconsultation* or tele-consultation* or videoconsultation* or video-consultation* or telemonitor* or tele-monitor* ) OR AB (telemedicin* or tele-medicin* or telehealth* or tele-health* or telecare* or tele-care* or telecari* or tele-cari* or emedic* or e-medic* or ehealth* or e-health* or mhealth* or m-health* or ehomecare* or e-homecare* or e-home-care* or telenurs* or tele-nurs* or teletherap* or tele-therap* or telerehab* or tele-rehab* or erehab* or e-rehab* or teleconsultation* or tele-consultation* or videoconsultation* or video-consultation* or telemonitor* or tele-monitor* )
<b>S14</b>	TI (phone or phones or telephon* or smartphone* or smart-phone* or cellphone* or cell-phone* or mobilephone* or mobile-phone* or "personal digital assistant*" or palmpilot* or palm-pilot* or smarthome* or smart-home* or touchscreen* or "touch screen*" or "high tech*" or hightech*) or AB (phone or phones or telephon* or smartphone* or smart-phone* or cellphone* or cell-phone* or mobilephone* or mobile-phone* or "personal digital assistant*" or palmpilot* or palm-pilot* or smarthome* or smart-home* or touchscreen* or "touch screen*" or "high tech*" or hightech*)

<b>S13</b>	TI (telecommunicat* or tele-communicat* or teleconferenc* or tele-conferenc* or app or apps or app-based or mobile-based or "Short Message Service*" or sms or textmessag* or text-messag* or texting or videoconferenc* or video-conferenc* or webconferenc* or web-conferenc* or webcast* or web-cast* or webinar* or web-application* or web-based-application*) OR AB (telecommunicat* or tele-communicat* or teleconferenc* or tele-conferenc* or app or apps or app-based or mobile-based or "Short Message Service*" or sms or textmessag* or text-messag* or texting or videoconferenc* or video-conferenc* or webconferenc* or web-conferenc* or webcast* or web-cast* or webinar* or web-application* or web-based-application*)
<b>S12</b>	TI (((wearable or wireless) N1 (technolog* or electronic or electronics or device or devices)) or (digital N1 medicine) or (technolog* N1 (remote or health)) or (remote N1 care) or ((mobile or internet or electronic* or robot* or remote) N1 (consultation* or application or applications or device or devices))) or AB (((wearable or wireless) N1 (technolog* or electronic or electronics or device or devices)) or (digital N1 medicine) or (technolog* N1 (remote or health)) or (remote N1 care) or ((mobile or internet or electronic* or robot* or remote) N1 (consultation* or application or applications or device or devices)))
<b>S11</b>	(MH "Internet-Based Intervention")
<b>S10</b>	(MH "Mobile Applications") OR (MH "Telephone+") OR (MH "Microcomputers+") or (MH "Computer Assisted Instruction")
<b>S9</b>	(MH "Telemetry") OR (MH "Telecommunications") OR (MH "Videoconferencing+") OR (MH "Wireless Communications") OR (MH "Teleconferencing")
<b>S8</b>	(MH "Telehealth+")
<b>S7</b>	S1 OR S2 OR S3 OR S4 OR S5 OR S6
<b>S6</b>	TI hospice* or AB hospice*
<b>S5</b>	TI (advance* N2 (plan or plans or planning or directive*)) or AB (advance* N2 (plan or plans or planning or directive*))
<b>S4</b>	TI (eol or "end of life") or AB (eol or "end of life")
<b>S3</b>	TI ((terminal* or "end stage*" or endstage* or "advanced stage*" or "late stage*") N2 (disease* or ill* or care* or caring or treatment* or period* or nurs* or patient*)) or AB ((terminal* or "end stage*" or endstage* or "advanced stage*" or "late stage*") N2 (disease* or ill* or care* or caring or treatment* or period* or nurs* or patient*))
<b>S2</b>	TI (palliative or palliate* or palliating) or AB (palliative or palliate* or palliating)
<b>S1</b>	(MH "Hospice and Palliative Nursing") OR (MH "Palliative Medicine") OR (MH "Palliative Care") OR (MH "Terminal Care+") OR (MH "Terminally Ill Patients+") OR (MH "Advance Care Planning")

## SEARCH HISTORY WEB OF SCIENCE

INDEXES=SCI-EXPANDED, SSCI, A&HCI, ESCI		
Set		
# 23	(#20 and #13) AND LANGUAGE: (English OR Chinese OR Danish OR Norwegian OR Portuguese OR Spanish OR Swedish)	<i>Timespan= 2000-2021</i>
# 22	#20 and #13	<i>Timespan= 2000-2021</i>
# 21	#20 AND #13	
# 20	#19 OR #18 OR #17 OR #16 OR #15 OR #14	
# 19	TS=(remote or rural)	
# 18	TS=((community NEAR/1 (healthcare* or health-care* or nurs* ) or (community NEAR/1 health NEAR/1 service*) or "district nurs*")	
# 17	TS=(housebound or house-bound or homebound or home-bound or home or homes) TS=(homecare* or home-care*)	
# 16		
# 15	TS="community dwelling"	
# 14	TS=((assisted or independent) NEAR/1 living)	
# 13	#12 AND #6	
# 12	#11 OR #10 OR #9 OR #8 OR #7	
# 11	TS=("internet based intervention*" or "web based intervention*" or (digital NEAR/1 intervention* )	
# 10	TS=(telemedicin* or tele-medicin* or telehealth* or tele-health* or telecare* or tele-care* or telecari* or tele-cari* or emedic* or e-medic* or ehealth* or e-health* or mhealth* or m-health* or ehomecare* or e-homecare* or telenurs* or tele-nurs* or teletherap* or tele-therap* or telerehab* or tele-rehab* or erehab* or e-rehab* or teleconsultation* or tele-consultation* or videoconsultation* or video-consultation* or telemonitor* or tele-monitor* )	

# 9	TS=(phone or phones or telephon* or smartphone* or smart-phone* or cellphone* or cell-phone* or mobilephone* or mobile-phone* or "personal digital assistant*" or palmpilot* or palm-pilot* or smarthome* or smart-home* or touchscreen* or "touch screen*" or "high tech*" or high tech*)
# 8	TS=(telecommunicat* or tele-communicat* or teleconferenc* or tele-conferenc* or app or apps or app-based or mobile-based or "Short Message Service*" or sms or textmessag* or text-messag* or texting or videoconferenc* or video-conferenc* or webconferenc* or web-conferenc* or webcast* or web-cast* or webinar* or web-application* or web-based-application*)
# 7	TS= (((wearable or wireless) NEAR/1 (technolog* or electronic or electronics or device or devices ) ) or (digital NEAR/1 medicine) or (technolog* NEAR/1 (remote or health) ) or (remote NEAR/1 care) or ((mobile or internet or electronic* or robot* or remote) NEAR/1 (consultation* or application or applications or device or devices) ))
# 6	#5 OR #4 OR #3 OR #2 OR #1
# 5	TS = hospice*
# 4	TS =(advance* NEAR/2 (plan or plans or planning or directive* ) )
# 3	TS=(eol or "end of life")
# 2	TS=((terminal* or "end stage*" or endstage* or "advanced stage*" or "late stage*") NEAR/2 (disease* or ill* or care* or caring or treatment* or period* or nurs* or patient* ) )
# 1	TS= (palliative or palliate* or palliating)