

# Supplementary Files S3: Search strategy for ethical, legal, organizational, social and patient, and environmental aspects

## MEDLINE

- 1 Telemedicine/
- 2 Remote Consultation/ or computer communication networks/ or remote sensing technology/ or exp telephone/ or electronic mail/
- 3 (teleconsult\* or telecare or telemed\* or telerehab\* or telehealth\* or tele-medicine or tele medicine or telehealth or "tele-health" or telehomecare or "tele-homecare").ti,ab.
- 4 (mhealth or ehealth or "e-health" or "m-health" or m health or mobile health).ti,ab.
- 5 Videoconferencing/
- 6 (videoconferencing or conferencing or videoconference\$ or "video-conferenc\$" or videoconsultation or "video-consultation").ti,ab.
- 7 Mobile Applications/
- 8 ((mobile or cell\$ or smart\$) adj (app\$ or device or phone)).ti,ab.
- 9 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8
- 10 Neurology/
- 11 Nervous System Diseases/
- 12 (neurological adj (disorder\* or disease\*)).ti,ab.
- 13 stroke.ti,ab.
- 14 epilep\*.ti,ab.
- 15 parkinson\*.ti,ab.
- 16 multiple sclerosis\*.ti,ab.
- 17 (nervous system adj (disorder\* or disease\*)).ti,ab.
- 18 movement disorder\*.ti,ab.
- 19 Stroke/
- 20 Epilepsy/
- 21 Parkinson Disease/
- 22 Multiple Sclerosis/

- 23 Movement Disorders/  
24 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  
25 9 and 24  
26 telestroke\*.ti,ab.  
27 teleneurol\*.ti,ab.  
28 ((telemedicine or telehealth\*) adj3 neurolog\*).ti,ab.  
29 25 or 26 or 27 or 28  
30 (((("semi-structured" or semistructured or unstructured or  
informal or "in-depth" or indepth or "face-to-face" or structured  
or guide) adj3 (interview\* or discussion\* or questionnaire\*)) or  
(focus group\* or qualitative or ethnograph\* or fieldwork or "field  
work" or "key informant")).ti,ab. or interviews as topic/ or focus  
groups/ or narration/ or qualitative research/  
31 exp Ethics/ or ethics.fs. or (ethic\* or bioethic\* or  
unintended consequences or (skills and training) or (benefits and  
harms) or beliefs or patient\* autonomy or dignity or moral\* or  
religio\* or human rights or humanism or patient\* integrity or  
principlism or normativ\* or principle-base\* or beneficence or  
non-maleficence or philosoph\* or aristoteles or socrates or  
justice or fairness or patient\* expectation or patient\* accessibility  
or Beauchamp or childress or wide reflective\* or socratic or  
social shaping or casuistry or coherence analy\* or eclectic\* or  
right to die or right to life or social value\* or ethnic value\* or  
personal value\* or benefit-harm or harm-benefit or elsi or  
elsa).ab. /freq=2  
32 exp Privacy/ or exp Disclosure/ or exp Fraud/ or exp  
Government Regulation/ or exp Healthcare Disparities/ or exp  
Health Services Accessibility/ or exp Humanism/ or exp Human  
Rights/ or exp Insurance Coverage/ or exp Insurance, Health,  
Reimbursement/ or exp Jurisprudence/ or exp Legislation as  
Topic/ or Legislation & Jurisprudence.fs. or exp Patient Rights/  
or exp Personhood/ or exp Prejudice/ or exp Professional  
Autonomy/ or exp Professional Misconduct/ or exp Social  
Stigma/ or exp Social Values/ or exp Stereotyping/ or exp  
Uncertainty/ or (((Healthcare or Health Care or nonclinical or  
Community Based) adj (Deliver\* or Distribution\* or System\*)) or  
(legal\* or libilit\* or litigation\* or constitutional or justice or law or  
laws or jurisprudence or complicit\* or privacy or private or  
confidential\*) or ((care or treatment) adj2 (duty or obligat\*)) or

(social\* adj (responsibl\* or obligat\*)) or ((informed or presumed) adj2 (choice or decision making)).ti,ab,kf. or (basic right\* or access\* right or duty to know or equally access\* or external pressure or fundamental right\* or human right\* or informed choice or informed decision making or public pressure or regulatory frame\* or right of access\* or right to know or acceptance or accessibility or accountability or autonomy or beneficence or civil right\* or communitarian\* or community values or confidentiality or coverage or dignity or directive or disclosure or discrimination or elsi or elsis or equality or equity or fairness or freedom or harm or inequalit\* or inequity or patient\* integrity or justice or law or lawmaker\* or lawsuit\* or lawyer\* or legacy or legal\* or legislation or legitimacy or liability or litigation or medicolegal or non-coverage or nonmaleficence or non- maleficence or normative or normativity or permissibility or prejudice\* or privacy or reimburse\* or social values or stigma or stigmas or stigmatisation or stigmatise or stigmatization or stigmatize or transparency or uncertainty or value judgment).ab. /freq=2

33 Decision Making, Organizational/ or Efficiency, Organizational/ or Models, Organizational/ or Organizational Objectives/ or exp Personnel Management/ or exp Professional Practice/ or "Organization and Administration"/ or Healthcare Common Procedure Coding System/ or Case Managers/ or Program Development/ or "Organization and Administration".fs. or organizational.ti,ab,kw. or ((organization\* or work or workflow or work flow or work planning or implementation\* or information needs or need assessment\* or skills or attitud\* or culture or patient path or user path or client path or quality assurance or sustainability or centralization or decentralization or hospital management or manager\* or supplier\*) adj9 (patient\* or client\* or user or users or practice\* or hospital\* or home\* or primary care or clinical or Medical or nurse\* or physician\* or profesional\*)).ti,ab.

34 ((social or burden\* or Impact\* or choice\* or information needs or communication\* or self-care or self-management or trade-off) adj5 (social or patient\*)).ti.

35 exp patient acceptance of health care/ or caregivers/ or exp Patient Preference/ or exp Patient Satisfaction/ or ((Patient\* or individual\* or person\* or care-giver\* or caregiver\* or client or

communit\* or consumer\* or public\* or user\* or sufferer\* or suffering or diseased or troubled or sick\* or invalid or people or patient\* or individual\* or person\* or carer or caregiver\* or client or communit\* or consumer\* or public\* or user\* or sufferer\* or suffering or diseased or troubled or sick\* or people or patient or patients or proband\* or individuals or survivor\* or family or families or familial or kindred\* or relative or relatives or care giver\* or caregiver\* or carer or carers or personal or spous\* or partner or partners or couples or users or participant\* or people or child\* or teenager\* or adolescent\* or youth or girls or boys or adults or elderly or females or males or women\* or men or men's or mother\* or father\* or parents or parent or parental or maternal or paternal) adj5 (prescrib\* or Elicit\* or Choice\* or Logit or Adheren\* or Preferen\* or service-user or preference\* or opinion\* or perception\* or perspective\* or view\* or voice\* or experienc\* or expectation\* or wish or wishes or attitud\* or lifespan\* or refus\* or patient autonomy or activities of daily living or quality of life or everyday life)).ti,kw.

36 ((patient\* or individual\* or person\* or carer or caregiver\* or client or communit\* or consumer\* or public\* or user\* or sufferer\* or suffering or diseased or troubled or sick\* or people or patient or patients or proband\* or individuals or survivor\* or family or families or familial or kindred\* or relative or relatives or care giver\* or caregiver\* or carer or carers or personal or spous\* or partner or partners or couples or users or participant\* or people or child\* or teenager\* or adolescent\* or youth or girls or boys or adults or elderly or females or males or women\* or men or men's or mother\* or father\* or parents or parent or parental or maternal or paternal) adj2 (service-user or preference\* or opinion or perception\* or perspective\* or view\* or voice\* or experience\* or expectation\* or wish or wishes or attitud\* or Wellbeing or well-being or self-care or self\* or belief\* or concern\* or worry\* or burden\* or problem\* or distress or psychology\* or social activit\* or famil\* or friend\* or emotion\* or satisf\* or dissatisf\* or happ\* or unhapp\* or behav\* or lifestyle or routine or life or autonomy or activities of daily living or quality of life or everyday life or skeptic\* or enthusias\* or daily lives or frequent-or-daily-users or Acceptanc\*).ti,kw.

37 35 or 36

- 38 exp \*pollution/ or exp \*pollutant/ or \*environmental exposure/ or exp \*environmental impact/ or \*ecotoxicology/ or \*exp biota/ or exp \*environmental health/
- 39 (waste\* or pollution\* or polluting or pollutant\* or contamination\* or contaminated or environmental health).ti,kw.
- 40 ((hazardous or toxic or toxicity or toxin or toxins or risk or risks or impact or impacts) adj5 environment\*).ti,ab,kw.
- 41 (natural environment\* or soil or soils or flora or floras or fauna or faunas or renewable resource\*).ti,kw.
- 42 (waste\* or contamination\*).ti,kf.
- 43 (pollution\* or polluting or pollutant\* or contaminated or environmental health).ti,ab,kf.
- 44 (natural environment\* or soil or soils or flora or floras or fauna or faunas or renewable resource\*).ti,ab,kf.
- 45 (environment\* adj5 sustainabilit\*).ti,ab,kf.
- 46 carbon footprint\*.ti,ab,kf.
- 47 (environment\* adj2 (assess\* or impact\* or outcome\* or implication\* or consideration\*)).ti,ab,kf.
- 48 environment\*.ti,kf.
- 49 environmental\*.ab.
- 50 ((health technology assessment or HTA or HTAs) and environmental\*).ti,ab,kf.
- 51 ((health technology assessment or HTA or HTAs) adj7 environment).ti,ab,kf.
- 52 38 or 39 or 40 or 41 or 42 or 43 or 44 or 45 or 46 or 47 or 48 or 49 or 50 or 51
- 53 29 and 30
- 54 31 or 32 or 33 or 34 or 37
- 55 29 and 54
- 56 29 and 52
- 57 limit 55 to yr="2011 -Current"
- 58 limit 55 to yr="2016 -Current"
- 60 limit 53 to yr="2016 -Current"
- 61 limit 56 to yr="2016 -Current"

## EMBASE

#67 #61 AND [2016-2021]/py

#66 #34 AND #60 AND [2016-2021]/py

#65 #34 AND #60

#64 #34 AND #62 AND [2016-2021]/py

#63 #34 AND #62

#62 #36 OR #37 OR #38 OR #39 OR #40

#61 #34 AND #35

#60

#41 OR #42 OR #43 OR #44 OR #45 OR #46 OR #47 OR #48 OR #49 O

R #50 OR #51 OR #52 OR #53 OR #54 OR #55 OR #56 OR #57 OR #58

OR #59

#59

('health technology assessment' OR hta OR htas)

NEAR/7 environment):ti,ab,de

#58 ('health technology assessment':ti,ab,de OR hta:ti,ab,de

OR htas:ti,ab,de) AND environmental\*:ti,ab,de

#57 environmental\*:ab

#56 environment\*:ti,de

#55

(environment\* NEAR/2

(assess\* OR impact\* OR outcome\* OR implication\* OR consideration\*)):ti,ab,de

#54 'carbon footprint':ti,ab,de

#53

(environment\* NEAR/5 sustainabilit\*):ti,ab,de

#52 pollution\*:ti,ab,de OR polluting:ti,ab,de OR pollutant\*:ti,ab,de

OR contaminated:ti,ab,de OR 'environmental health':ti,ab,de

#51 waste\*:ti,de OR contamination\*:ti,de

#50 'natural environment':ti,kw OR soil:ti,kw OR soils:ti,kw OR

flora:ti,kw OR floras:ti,kw OR fauna:ti,kw OR faunas:ti,kw OR

'renewable resource':ti,kw

#49

((hazardous OR toxic OR toxicity OR toxin OR toxins OR risk OR risks

OR impact OR impacts) NEAR/5 environment\*):ti,ab,kw

#48 waste\*:ti,kw OR pollution\*:ti,kw OR polluting:ti,kw OR

pollutant\*:ti,kw OR contamination\*:ti,kw OR contaminated:ti,kw OR

'environmental health':ti,kw

#47 'environmental health'/exp  
 #46 'biota'/exp  
 #45 'ecotoxicology'/exp  
 #44 'environmental impact'/exp  
 #43 'environmental exposure'/exp  
 #42 'pollutant'/exp  
 #41 'pollution'/exp  
 #40 'patient attitude'/de OR 'patient participation'/de OR 'patient decision making'/de OR 'patient preference'/de OR 'patient satisfaction'/de  
 OR 'patient centered' OR patientcentered OR 'professional patient\*' OR  
 (((patient\* OR individual\* OR person\* OR carer OR caregiver\* OR client OR communit\* OR consumer\* OR public\* OR user\* OR sufferer\* OR suffering OR diseased OR troubled OR sick\* OR people OR patient OR patients OR proband\* OR individuals OR survivor\* OR family OR families OR familial OR kindred\* OR relative OR relatives OR 'care giver\*' OR caregiver\* OR carer OR carers OR personal OR spous\* OR partner OR partners OR couples OR users OR participant\* OR people OR child\* OR teenager\* OR adolescent\* OR youth OR girls OR boys OR adults OR elderly OR females OR males OR women\* OR men OR mother  
 \* OR father\* OR parents OR parent OR parental OR maternal OR paternal) NEAR/2 ('service user' OR preference\* OR opinion OR perception\* OR perspective\* OR view\* OR voice\* OR experience\* OR detection\* OR wish OR wishes OR attitude\* OR wellbeing OR 'well being' OR 'selfcare' OR self\* OR belief\* OR concern\* OR worry\* OR burden\* OR problem\* OR distress OR psychology\* OR 'social activit\*' OR famil\* OR friend\* OR emotion\* OR satisf\* OR dissatisf\* OR happy\* OR unhapp\* OR behavior\* OR lifestyle OR routine OR life OR autonomy OR 'activities of daily living' OR 'quality of life' OR 'everyday life' OR skeptic\* OR enthusias\* OR 'daily lives' OR 'frequent or daily users' OR acceptanc\*)):ab) OR  
 (((patient\* OR individual\* OR person\* OR carer OR caregiver\* OR client OR communit\* OR consumer\* OR public\* OR user\* OR sufferer\* OR suffering OR diseased OR troubled OR sick\* OR people OR patient OR patients OR proband\* OR individuals OR survivor\* OR family OR families OR familial OR kindred\* OR relative OR relatives OR 'care giver\*' OR caregiver\* OR carer OR carers OR personal OR spous\* OR partner OR partners OR couples OR users OR participant\* OR people OR child\* OR teenager\* OR adolescent\* OR youth OR girls OR boys OR

dults OR elderly OR females OR males OR women\* OR men OR mother  
\* OR father\* OR parents OR parent OR parental OR maternal OR patern  
al)

NEAR/

5

(prescrib\* OR elicit\* OR choice\* OR logit OR adheren\* OR preferen\* OR 'service  
user' OR preference\* OR opinion\* OR perception\* OR perspective\* OR  
view\* OR voice\* OR experienc\* OR expectation\* OR wish OR wishes O  
R attitud\* OR lifespan\* OR refus\* OR 'patient autonomy' OR  
'activitiesof daily living' OR 'quality of  
life' OR 'everydaylife' OR decisi\* OR paticipat\* OR  
involvement\* OR desir\* OR activation OR empower\* OR adaptat\* OR  
educat\*)):ti)

#39 'social acceptance'/mj OR 'social aspect'/mj OR 'social norm'/mj OR  
'social problem'/mj OR 'social rejection'/mj OR 'social status'/mj OR  
'social structure'/mj OR 'social aspects and related phenomena'/mj OR  
social:ti,de OR 'social factor':ti OR 'social aspect\*':ti OR 'social  
norm':ti OR 'social burden\*':ti OR 'social impact\*':ti OR  
(((choice\* OR 'information needs' OR communication\* OR 'self  
care' OR 'self management' OR 'trade off' OR planning) NEAR/2  
(social OR patient\*)):ab)

#38 'organization'/mj OR 'personnel management'/mj OR 'professional  
practice'/mj OR 'organization and management'/mj OR 'healthcare  
common procedure coding system'/mj OR 'case manager'/mj OR  
'program development'/mj OR organizational:ti,de OR  
(((organization\* OR workflow OR 'work flow' OR  
'workplanning' OR implementation\* OR 'information needs' OR 'need  
assessment\*' OR skills OR attitud\* OR culture OR 'patient  
path' OR 'user path' OR 'client path' OR  
'qualityassurance' OR sustainability OR centralization OR  
decentralization OR 'hospital managesocialment or  
manager\*' OR supplier) NEAR/3 (patient\* OR client\* OR  
user OR users OR practice\* OR hospital\* OR home\* OR 'primary  
care' OR clinical OR medical OR nurse\* OR physician\* OR profesional\*))  
:ab)

#37 'privacy'/exp OR 'fraud'/mj OR 'government regulation'/exp OR  
'health care disparity'/mj OR 'health care delivery'/mj OR  
'humanism'/mj OR 'human rights'/mj OR 'insurance'/mj OR  
'reimbursement'/mj OR 'jurisprudence'/exp OR 'law'/exp OR  
'legislation and jurisprudence'/exp OR 'patient right'/exp OR  
'prejudice'/mj OR 'professional autonomy'/mj OR 'professional  
misconduct'/mj OR ((healthcare OR health



care' OR nonclinical OR 'community based')  
NEAR/1(deliver\* OR distribution\*):ti,de) OR  
liabilit\*:ti,de OR litigation\*:ti,deOR constitutional:ti,de  
OR laws:ti,de OR jurisprudence:ti,de  
OR complicit\*:ti,de OR private:ti,de OR confidential\*:ti,de OR  
(((care OR treatment) NEAR/2 (duty OR obligat\*)):ti,de)  
OR((social\* NEAR/1 (responsibl\* OR  
obligat\*)):ti,de) OR(((informed OR presumed) NEAR/2 (choice  
OR 'decision making')):ti,de)OR (((('basic right\*' OR 'access\* right' OR  
'duty to know' OR 'equally access\*' OR 'external  
pressure' OR 'fundamental right\*' OR 'human  
right\*' OR 'informed choice' OR 'informed decision making' OR  
'public pressure' OR 'regulatory frame\*' OR 'right of access\*' OR  
'right to know' OR acceptance OR accessibility OR accountability OR  
autonomyOR beneficence OR 'civil right\*' OR  
communitarian\* OR 'community values' OR confidentiality OR dignity  
OR directive OR disclosure OR discrimination OR elsi OR elsis OR  
equality OR equity OR fairness OR free dom OR harm OR inequalit\*  
OR inequity OR 'patient\*  
integrity' OR justice OR law OR lawmaker\* OR lawsuit\* OR lawyer\* OR  
legacy OR legal\* OR legislation OR legitimacy OR liability OR litigation  
OR medicolegal OR 'non coverage' OR nonmaleficence OR 'non  
maleficence' OR normative OR normativity OR permissibility OR prejudi  
ce\* OR privacy OR reimburse\* OR 'social  
values' OR stigma OR stigmas OR stigmatisation OR stigmatise OR  
stigmatization OR stigmatize OR transparency OR uncertainty OR  
'value judgment') NEAR/5 ('basic right\*' OR 'access\* right' OR  
'duty to know' OR 'equally access\*' OR 'external  
pressure' OR 'fundamental right\*' OR 'human  
right\*' OR 'informed choice' OR 'informed decision making' OR  
'public pressure' OR 'regulatory frame\*' OR 'right of  
access\*' OR 'right to  
know' OR acceptance OR accessibility OR accountability OR  
autonomyOR beneficence OR 'civil right\*' OR communitarian\* OR  
'community values' OR confidentiality OR dignity OR directive OR  
disclosure OR discrimination OR elsi OR elsis OR equality OR equity  
OR fairness OR free dom OR harm OR inequalit\* OR inequity OR  
'patient\*  
integrity' OR justice OR law OR lawmaker\* OR lawsuit\* OR lawyer\* OR  
legacy OR legal\* OR legislation OR legitimacy OR liability OR litigation  
OR medicolegal OR 'non coverage' OR nonmaleficence OR 'non  
maleficence' OR normative OR normativity OR permissibility OR prejudi  
ce\* OR privacy OR reimburse\* OR 'social  
values' OR stigma OR stigmas OR stigmatisation OR stigmatise OR stig

matization OR stigmatize OR transparency OR uncertainty OR 'value judgment'):ti,de)

#36 'ethics'/exp OR ethic\*:ti,de OR bioethic\*:ti,de OR 'unintended consequences':ti,de OR 'skills and training':ti,de OR 'benefits and harms':ti,de OR beliefs:ti,de OR 'patient\* autonomy':ti,de OR dignity:ti,de OR moral\*:ti,de OR religio\*:ti,de OR 'human rights':ti,de OR humanism:ti,de OR 'patient\* integrity':ti,de OR principlism:ti,de OR normativ\*:ti,de OR 'principle base\*':ti,de OR beneficence:ti,de OR 'non maleficence':ti,de OR philosoph\*:ti,de OR aristoteles:ti,de OR socrates:ti,de OR justice:ti,de OR fairness:ti,de OR 'patient\* expectation\*':ti,de OR 'patient\* accessibility':ti,de OR beauchamp:ti,de OR childress:ti,de OR 'wide reflective\*':ti,de OR socratic:ti,de OR 'social shaping':ti,de OR casuistry:ti,de OR 'coherence analy\*':ti,de OR eclectic\*:ti,de OR 'right to die':ti,de OR 'right to life':ti,de OR 'social value\*':ti,de OR 'ethnic value\*':ti,de OR 'personal value\*':ti,de OR 'benefit harm':ti,de OR 'harm benefit':ti,de OR elsi:ti,de OR elsa:ti,de #35

((('semi structured' OR semistructured OR unstructured OR informal OR 'in-depth' OR indepth OR 'face-to-face' OR structured OR guide) NEAR/3 (interview\* OR discussion\* OR questionnaire\*)):ti,de)OR (focus:ti,de AND group\*:ti,de) OR qualitative:ti,de OR ethnograph\*:ti,de OR fieldwork:ti,de OR 'field work':ti,de OR 'key informant':ti,de OR 'qualitative research'/exp

#34 #29 OR #33

#33 #30 OR #31 OR #32

#32 ((telemedicine OR telehealth\*) NEAR/3 neurolog\*):ti,ab #31

'teleneurology'/exp OR 'teleneurology'

#30 'telestroke'/exp OR 'telestroke'

#29 #13 AND #28

#28

#14 OR #15 OR #16 OR #17 OR #18 OR #19 OR #20 OR #21 OR #22 O

R #23 OR #24 OR #25 OR #26 OR #27

#27 'motor dysfunction'/mj

#26 'multiple sclerosis'/mj

#25 'parkinson disease'/mj

#24 'epilepsy'/mj

#23 'cerebrovascular accident'/mj

#22 'movement disorder\*':ti,ab

#21 ('nervous system' NEAR/1 (disorder\* OR disease\*)):ti,ab

#20 'multiple sclerosis':ti,ab  
#19 parkinson\*:ti,ab  
#18 epileps\*:ti,ab  
#17 stroke:ti,ab  
#16 (neurological NEAR/1 (disorder\* OR disease\*)):ti,ab#15  
'neurologic disease'/mj  
#14 'neurology'/exp  
#13  
#1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR  
#11 OR #12  
#12 ((mobile OR cell\$ OR smart\$) NEAR/1 (app\$ OR  
device OR phone)):ti,ab  
#11 'mobile application'/mj  
#10 videoconferencing:ti,ab OR conferencing:ti,ab OR  
videoconference\$:ti,ab OR 'video-conferenc\$:ti,ab  
OR videoconsultation:ti,ab OR 'video-consultation':ti,ab  
#9 'videoconferencing'/exp  
#8 mhealth:ti,ab OR ehealth:ti,ab OR 'e-health':ti,ab OR 'm-health':ti,ab OR  
'm health':ti,ab OR 'mobile health':ti,ab  
#7 teleconsult\*:ti,ab OR telecare:ti,ab OR telemed\*:ti,ab OR  
telerehab\*:ti,ab OR telehealth\*:ti,ab OR 'tele-medicine':ti,ab OR 'tele  
medicine':ti,ab OR telehealth:ti,ab OR 'tele-health':ti,ab  
OR telehomecare:ti,ab OR 'tele-homecare':ti,ab  
#6 'e-mail'/mj  
#5 'telephone'/mj  
#4 'remote sensing'/mj  
#3 'computer network'/mj  
#2 'teleconsultation'/mj  
#1 'telemedicine'/mj