BMJ Open

How are patient-related characteristics associated with shared decision making about treatment? A scoping review of quantitative studies

Journal:	BMJ Open
Manuscript ID	Draft
Article Type:	Original research
Date Submitted by the Author:	n/a
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Keywords:	Quality in health care < HEALTH SERVICES ADMINISTRATION & MANAGEMENT, MEDICAL EDUCATION & TRAINING, MEDICAL ETHICS

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58	KEYWORDS
59	treatment decision making; SDM; systematic review; barriers and facilitators; patient involvement
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61	WORD COUNT
62	2.663
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ABSTRACT

- Objectives To identify what patient-related characteristics have been reported to be associated with the occurrence of SDM about treatment.
- **Design** Scoping review.
- **Eligibility criteria** Peer-reviewed articles in English or Dutch reporting on associations between
- 71 patient-related characteristics and the occurrence of SDM for actual treatment decisions.
- 72 Information sources COCHRANE Library, Embase, MEDLINE, PsycInfo, PubMed, and Web of Science
- were systematically searched for articles published until March 25, 2019.
- **Results** The search yielded 5289 hits of which 53 were retained. Multiple categories of patient
- 75 characteristics were identified: 1) background characteristics (e.g., gender), 2) disease and decision
- characteristics (e.g., symptom severity), 3) preferences (e.g., for autonomy), 4) psychological,
- disease-related characteristics (e.g., adjustment), 5) general psychological characteristics (e.g.,
- anxiety), and 6) clinician-patient relationship (e.g., trust). Many characteristics showed no
- association or unclear relationships with SDM occurrence. For example, for female gender positive,
- 80 negative, and, most frequently, non-significant associations were seen.
- **Conclusions** A large variety of patient-related characteristics have been studied, but for many the
- association with SDM occurrence remains unclear. The results will caution often-made assumptions
- 83 about associations and provide a first step to target effective interventions to foster SDM with all
- 84 patients.

STRENGTHS AND LIMITATIONS OF THIS STUDY

- We looked at a wide variety of treatment decisions, any patient-related characteristic that had been assessed, any year of publication, and any measure of SDM and were therefore able to provide an overview that cuts across clinical settings, study foci and study measures.
- We aimed to include studies that looked at a *specific* decision, not decision making experience in
 general, and decided to err on the side of inclusion in order to be comprehensive, but may have
 been too lenient in some cases.
 - We did not put any restriction on how SDM should have been measured, allowing for constructs
 underlying the different SDM measures to differ and including studies that had used selfdeveloped and unvalidated items, both making it more difficult to compare results across studies.

1. Introduction

Shared decision making (SDM) is recommended when patients face preference-sensitive decisions about treatment.¹² In clinical practice, the occurrence of SDM remains low.³⁴ Being an active participant in SDM can be difficult for patients, and potentially even more challenging for some patients than for others.⁵⁶ Previous research has suggested that e.g., those with higher age or lower education⁷⁸ are less likely to participate in SDM. Is it because they prefer to be less involved, because they struggle with certain aspects of SDM, such as understanding the information or expressing themselves,⁶ or are clinicians less likely to involve patients in SDM whom they believe to have less desire or ability to participate?⁸⁻¹⁰ Knowing about patient-related characteristics systematically associated with lower occurrence of SDM is an important step in identifying support needs for patients or educational or training needs for clinicians.

Associations between patient-related characteristics and actual occurrence of SDM have not been shown unambiguously. To our knowledge, no evidence-based overview exists on these associations. A scoping review is germane, as it allows answering broad and heterogenous research questions. With this scoping review we aim to provide an overview of patient-related characteristics for which an association with the occurrence of SDM about treatment has been assessed. Our research question was: What has been reported in the quantitative literature about the empirical relationships between patient-related characteristics and the occurrence of SDM about treatment?

2. Methods

We based this scoping review on established frameworks, ^{11 12} and the protocol was registered at Open Science Framework (www.osf.io). The search strategy, developed with a librarian, included terms relating to SDM, patient-related characteristics, and others (e.g., distress, mental disorder) based on a simultaneous qualitative study on patient readiness for SDM about treatment.⁶ The search was conducted on March 25, 2019 in: PubMed, MEDLINE, Embase, Web of Science, COCHRANE Library, and Psychinfo, from their inception (Appendix A). Abstracts and full-texts were screened independently and in duplicate. Disagreements were resolved in consensus meetings, consulting a third reviewer if necessary.

Peer-reviewed articles published in English or Dutch were included that reported on studies:

1) with an empirical, quantitative design, presenting new data or secondary analyses of existing data, in adult patients; that 2) involved a treatment decision for that patient; and 3) measured SDM occurrence and its association with patient-related characteristic. We defined patient-related characteristics as any characteristic of the person (e.g., age, attitude toward treatment) or condition (e.g., diagnosis). We excluded articles that 1) were case studies; 2) described decisions for children or about maternity care; 3) included patients who were not mentally capable of giving consent or not able to speak the relevant language; 4) involved decisions about screening, diagnostic testing, clinical trial participation, advance care planning/end-of life care, or general healthcare; or 5) assessed SDM occurrence after an SDM intervention. One researcher performed data charting (see Appendix B for the full data extraction chart), a second researcher checked it. Disagreements were resolved in consensus, or with a third researcher if needed. In agreement with common practice for scoping reviews, we did not conduct a quality assessment. 12

The results regarding a characteristic were categorized as *mixed* when it had been assessed in different ways (e.g., variable analysed continuously versus categorically) and different results were found. The results were categorized as *unclear* when the direction or significance level was not clear from the article and the corresponding author did not respond to our request for clarification. In case both univariable and multivariable analyses had been conducted, we used the multivariable results for the categorization. A thematic categorization of the patient-related characteristics was made in consensus. The results are presented according to whether SDM was measured from patient, physician, or observer's perspective.

Patient and public involvement

This research was done without direct patient involvement, yet was based on input from patients from interviews held with the aim to inform the search strategy.⁶ Patients were not invited to comment on

the study design and were not consulted to interpret the results. Patients were not invited to contribute to the writing or editing of this document.



3. Results

The search resulted in 5,289 articles, of which we included 53 in this review (Table 1). Figure 1 depicts the inclusion process.

[Insert Figure 1. Flowchart of included articles]

3.1 Article characteristics

The included articles were all written in English and published between 1989 and 2019, with the majority between 2010 and 2019 (n=44/53, Table 1). Sample sizes ranged from N=19 to N=5,383. The majority of included articles focused on patients with a somatic condition (n=42), mostly cancer (n=29). Ten focused on patients with a psychiatric condition, and one on a wider population including both somatic and psychiatric conditions. Most studies were conducted in the USA (n=21) followed by The Netherlands (n=7). Studies measured SDM from the perspective of the patient (n=42), an observer (n=8), both the patient and an observer (n=2), or the physician (n=1). The majority of studies (30/53) reported univariable analyses only for the characteristics relevant to this review (Table 1).

[Insert Table 1 about here]

3.2 Sociodemographic characteristics

The most frequently studied sociodemographic characteristics were age (n=45), gender (n=30), education level (n=31), and being in a committed relationship (n=16) (Table 2). For each characteristic, no significant associations with SDM occurrence were found in more than half of the studies (age: 31/45, gender: 21/30, education level: 26/31, being in a committee relationship: 11/16). In the remaining studies, more SDM was associated with lower age (9/45), female gender (4/30), male gender (4/30), and being committed in a relationship (3/16).

Region and insurance status are not included in Table 2. Region was studied in six studies. Two studies (in Sweden and Spain) found more SDM in patients who were from a more urban compared to a more rural area.^{25 45} Three studies (Japan, Taiwan, the USA) found no associations between region and SDM occurrence.^{42 56 65} In one other study from the USA, the specific study site was associated with SDM occurrence, but the results did not reveal a clear pattern for type of region.³⁷

Insurance status was assessed in six studies. Of the five studies conducted in the USA, four found no significant associations (comparisons: insured vs. uninsured;²¹ private vs public vs none;^{13 38} private + Medicare vs Medicare vs Medicare + Medicaid⁴³). One study found that patients with Medicare insurance were less involved in SDM than patients who were insured privately, through state programs, or other (controlling for age).⁵⁹ Insurance was also assessed in one study in South Korea, in which patients with private insurance were more involved in SDM than patients without private insurance.²⁸

[Insert Table 2 about here]

3.3 General health and clinical characteristics

Ten studies assessed whether having (multiple) comorbidities compared to having no (or fewer) comorbidities was associated with SDM occurrence, and eight found no significant associations (Table 3). One study found a positive association between number of comorbidities and more SDM, in patients with inflammatory bowel disease or arthritis.⁴² One study in patients with cancer²⁷ found a positive association between having more and/or more severe comorbidities and more SDM when SDM was measured from the perspective of the observer, but not when measured from the perspective of patients. Having a better general health was a positively associated with more SDM in three out of five studies among patients with cancer^{37 52} or patients who take antidepressants.⁵⁹

Conversely, a study among patients with inflammatory bowel disease or arthritis found a negative association.⁴² One study among patients with cancer found no significant association.⁵⁶

Three studies assessed depressive symptoms, of which two found no significant associations. ^{51 59} In a study on sleep apnea treatment, having lower compared to higher levels of depressive symptoms was associated with more SDM, but when depressive symptoms were analyzed as a continuous variable the association was non-significant. ¹⁶

Sixteen studies assessed the association between diagnosis and SDM occurrence, of which seven focused on cancer (assessing either cancer type or primary cancer site), six on psychiatric conditions, and three on somatic conditions other than cancer. Six of the seven studies that looked at cancer found no significant associations. ²² ³⁵ ³⁷ ³⁸ ⁵⁷ ⁶⁴ One study found that more SDM occurred in patients with head and neck cancer compared to other cancer sites. ⁵⁵ One study, using multiple SDM measures (from the perspective of the patient or observer), assessed whether there was a difference between patients with pancreatic compared to colorectal cancer. In the analyses of two of these measures, more SDM occurred among patients with pancreatic compared to colorectal cancer; this association was non-significant using any of the other measures. ²⁷ In the same study, it was also reported that SDM occurred less with patients with benign compared to malignant tumors when measured with the SDM-Q-9; no associations were found using other measures of SDM.

Of the six studies that looked at psychiatric diagnoses, five studies found no significant associations. ^{18 26 29 44 64} One study found that more SDM was reported among patients with depression than patients with schizophrenia. ¹⁹

Of the three studies looking at somatic conditions other than cancer, one found a significant association: SDM occurred less with patients with ulcerative colitis, Crohn's disease, and/or psoriatic arthritis compared to rheumatoid arthritis.⁴² The two other studies (patients with gallstones⁴⁷ or vascular conditions⁵³) found no significant associations.

Eleven studies assessed the association between SDM occurrence and cancer severity (Table 3); six studies found no association. Four studies found that more severe cancer was associated with less SDM. One found that overall, more severe cancer was associated with more SDM, except for patients with the highest stage of severity; for them, the greatest severity of cancer was associated with lower SDM.⁵⁶

[Insert Table 3 about here]

3.4 Psychological characteristics and coping with illness

Having a positive attitude towards treatment was associated with more SDM in one study about sleep apnea treatment¹⁶ and two studies about psychiatric treatment^{19 31} (Table 4). All other factors were only studied once (Table 4).

Higher general perceived self-efficacy was found associated with more SDM in two studies (with seemingly partly overlapping samples) in mental health.^{18 19} In the same studies, health locus of control was not significantly associated with SDM occurrence.

[Insert Table 4 about here]

3.5 SDM style or preference

Having a preference for involvement in decision making prior to making the decision, was assessed in two studies about cancer (Table 5). One study found a positive association with more SDM for decisions about surgery, but not for decisions about chemotherapy and adjuvant endocrine therapy.⁵⁴ The second study (adjuvant therapy after surgery⁵⁸) found no significant association.

[Insert Table 5 about here]

4. Discussion

When a patient faces a decision between multiple treatment options, SDM is recommended.¹² Some patients may be less involved than others in decision making. We aimed to identify which patient-related characteristics have been studied in relation to the occurrence of SDM about treatment and summarize the findings.

Overall, the present review demonstrates many non-significant and mixed results regarding the association between patient-related characteristics with the occurrence of SDM. Importantly, the lack of evidence of associations between the characteristics studied and the occurrence of SDM is *not* evidence for no association. The heterogeneous nature of the studies (due to, for example, how the studied characteristics and occurrence of SDM were measured), and the sometimes small number of studies relating to a particular characteristic, provide insight into what has been studied and how often it has been studied. It does not provide conclusive evidence on associations that may exist with the occurrence of SDM. Focused systematic reviews and meta-analyses should provide additional information in this regard. Also, we have no indication of how often studies that showed null results were not published, so we should be mindful that possibly evidence on lack of association between patient-related characteristic and the occurrence of SDM may be underreported.

We identified over seventy different patient-related characteristics of which the association with the occurrence with SDM had been assessed. SDM was assessed using 29 different measures (including self-developed items; Table 1), and most often from the patients' perspective. This perspective provides a relevant but incomplete view on the extent to which SDM occurred. We categorized the characteristics into sociodemographic, health-related, or psychological characteristics, or decisional preferences. Most studies were conducted in relation to somatic conditions, which often was cancer, a minority in relation to psychiatric conditions. How frequently a particular patient-related characteristic had been studied differs greatly by characteristic — with sociodemographic characteristics having been studied most often and more psychological characteristics (such as coping with health and illness), and preference for involvement, least often. Of note, the latter has repeatedly been assessed but seldom such that preference for involvement was measured before engaging in the decision-making process. Overall, we found few clear determinants of SDM occurrence, even for characteristics that are commonly believed to be associated with less SDM, such as higher age, lower education, or ethnic minority background.

The most frequently studied characteristics were age, gender and education. For all three, more than two-third of the studies found no significant association, the associations that were found

were in either direction, or studies showed mixed results. The same holds true for other sociodemographic characteristics, such as being in a committed relationship and ethnicity, and for clinical characteristics such as diagnosis or comorbidity. Clearly, if characteristics such as e.g., age, ethnicity, or diagnosis were associated with SDM, this would allow for relatively practical ways for clinicians to identify patients who are likely to need additional support in order to become involved in treatment decision making. With clear associations lacking, on the contrary, caution should be taken to assume that SDM with patients of certain ages, gender, or education levels is more or less likely. Particularly for age, there are beliefs that elderly patients are less willing to be involved while many decisions elderly face are of a preference-sensitive nature and call for more SDM.

Fewer studies assessed psychological factors or preferences for involvement, in relation to SDM occurrence. Many of these characteristics can be considered to be states rather than traits and may change over time, in particular over the course of decision making. We excluded studies that had measured state-like characteristics after the decision had been made, and/or at the same time as when self-reported levels of SDM were assessed, because the participants' experiences with the decision-making process of interest could have influenced their responses to such questions. Still, these characteristics may be highly relevant in better understanding what makes one individual more likely than another to become involved in treatment decision making, or the same individual more "ready" to engage in SDM at a particular time than at other times. In order to be ready patients need, amongst others, to understand and apply the relevant information, and communicate effectively with their clinicians. This could be more difficult for patients who experience emotional distress or have difficulties accepting their diagnosis. In our review, two articles reported a positive association between higher general self-efficacy and more SDM, though these articles reported on seemingly partly overlapping samples. If further research supports this finding, fostering general selfefficacy may be a factor that could benefit patients. To date, the number of studies is too small to draw conclusions about relevant psychological characteristics with regard to the occurrence of SDM. One exception may be that having a favorable attitude towards treatment seems associated with higher SDM occurrence. This could be due to clinicians generally tending towards treatment, and preference congruence facilitating a shared decision process.

Conclusion

This review offers a comprehensive summary of studies that have assessed associations between one or more patient-related characteristics and the occurrence of SDM. From a practical standpoint, the results call for caution in making assumptions about whether SDM can or will occur with patients with particular characteristics. In fact, most if not all, patient-related characteristics studied do not

point towards a clear association with the occurrence of SDM. In other words, SDM, if truly attempted, may occur with any patient with any of these characteristics. The review points out to the need for further research to clarify which patient-related characteristics may be associated with the occurrence of SDM, and how, to inform effective interventions to foster SDM. Importantly, such characteristics may not be those that are readily determined (e.g., age, education), but rather less obvious psychological features. With reliable identification of support needs and the offer of adapted support, all patients could then have the best possible opportunity to contribute in the planning of their care.

ACKNOWLEDGEMENTS

We thank Jan Schoones (Walaeus Library, Leiden University Medical Center, Leiden, the Netherlands) for his assistance in performing the search.

FUNDING

This work was supported by ZonMW, grant number 516000508. The funding agreement ensured the authors' independence in designing the study, interpreting the data, writing, and publishing the report.

CONFLICT OF INTEREST

The authors declare none.

AUTHOR STATEMENT

AP, AMS and SK designed the study. AP, SK, JbB, SM and MK performed title and abstract screening. AP, SK, JdB, MK performed full-text screening. AP, SK, JdB, SM, and MK conducted the data extraction. SK wrote the first draft of the manuscript. SK, AP, AM, MK, EP, and WBdB were involved in interpreting the results. All authors have read the manuscript, made improvements of the content and wording, and have agreed to the final version. The corresponding author attests that all listed authors meet authorship criteria and that no others meeting the criteria have been omitted.

DATA AVAILABILITY STATEMENT

344 All data relevant to the study are included in the article or uploaded as supplementary information.

FIGURE LEGENDS

347 Figure 1. Flowchart of included articles.

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574 Table 1. Study characteristics

First author, year of publication, country, reference	Design, data collection method ^a	Health condition and decision specification	Sample characteristics: N, gender, age (in years) ^b	Perspective from which SDM was measured	SDM measurement	Multiple analyses (Yes/No); if yes, what
Barr, 2016, USA ¹³	Cross-sectional Questionnaire	Depression Depression treatment	N=972 Female: 69.0% Age: M=43.2, SD=13.4	Patient	CollaboRATE	Yes Age analyzed as continuous and categorical variable
Barton, 2014, USA ¹⁴	Cross-sectional Interview	Rheumatoid arthritis Rheumatoid arthritis treatment	N=509 - Rheumatoid Arthritis Panel (N=275): Female: 85.8% Age: M=64, SD=11 - University of California, San Francisco (UCSF) Rheumatoid Arthritis (RA) Cohort (N=234): Female: 84% Age: M=55, SD=14	Patient	Decision-making subscale of the Interpersonal Processes of Care survey, consisting of two items: "How often did you and your doctors work out a treatment plan together?" and "If there were treatment choices, how often did doctors ask if you would like to help decide your treatment?" (Never to Always)	Yes Separate analyses for the rheumatoid arthritis panel and the UCSF RA cohort.
Berger, 2017, USA ¹⁵ *	Retrospective Questionnaire	Breast cancer Breast cancer treatment	N=873 Female: 100% Age: M=59.1, SD=12.1	Patient	CPS (actual)	No
Brostrom, 2018, Sweden ¹⁶ *	Cross-sectional Questionnaire, clinical examination	Obstructive sleep apnea Start of continuous positive airway pressure treatment	N=193 Female: 32.1% Age: M=59.7, SD=11.5	Patient	CollaboRATE	Yes CollaboRate analyzed as continuous and categorical (low, medium, high, very high) outcome

De las Cuevas, 2013, Spain ¹⁷ *	Cross-sectional Questionnaire	Psychiatric diagnosis Prescription of a new treatment or maintenance or change in dosage of current drug treatment	N=1111 Female: 67.4% Age: - Psychiatric outpatient (n=571): M=49.5, SD=16.4 - Primary care patients (n=540): M=44.7, SD=16.4	Patient	SDM-Q-9	No
De las Cuevas, 2014, Spain ¹⁸	Cross-sectional Questionnaire, interview	Psychiatric diagnosis Psychiatric treatment	N=507 Female: 62.1% Age: M=48.4, SD=13.6	Patient	CPS (actual)	No
De las Cuevas, 2014, Spain ¹⁹	Cross-sectional Questionnaire	Psychiatric diagnosis Psychiatric treatment	N=846 Female: 64.4% Age: M=49.9, SD=13.6, range=18–87	Patient	SDM-Q-9	No
Ekdahl, 2011, Sweden ²⁰ *	Cross-sectional Interview	Older patients with comorbidities according to ICD-10 Acute admittance/hospitalization	N=156 Female: 50.6% Age: range=76-98	Patient	CPS (actual)	No
Ellis, 2016, USA ²¹ *	Cross-sectional Interview	Colorectal cancer Surgery, radiation therapy and/or chemotherapy	N=154 Female: 42.2% Age: - <65 years: n=79 - ≥65 years: n=75	Patient	CPS (actual)	No
Ernst, 2011, Germany ²² *	Cross-sectional Questionnaire	Haemato-oncological Chemotherapy, stem cell transplantation, other	N=108 (patients who completed CPS; total sample N=117) Female (n=117): 43.6% Age (n=117): M=57, Md=59; range 21-84	Patient	CPS (actual)	No
Fischer, 2006, The Netherlands ²³ *	Prospective Questionnaire	Prostate cancer Prostate cancer treatment	N=126 Female: 0.0%	Patient	One question, to what degree they felt they had had the opportunity to	No

			Age: M=67, range 48- 82		decide about their treatment, three response options (e.g., "I had no say in the decision, the doctor made the decision")	
Fowler, 2013, USA ²⁴ *	Cross-sectional Questionnaire	Patients with hypertension or high cholesterol Blood pressure medication and cholesterol medication	N=2718 - Hypertension (n=1027): Female: 50.6% Age: >65: n=435 - High cholesterol (n=822): Female: 49.1% Age: >65 years: n=322	Patient	Four questions to assess the extent to which the healthcare provider informed and involved patients in decisions (e.g., "Did the health care provider(s) explain that you could choose whether or not to have?" Yes/No).	No
Frisell, 2016, Sweden ²⁵ *	Retrospective Questionnaire, registry data	Breast cancer Immediate breast reconstruction after mastectomy	N=2217 (subsample of patients who completed questionnaire; total sample N=2929) Female: 100% female Age (n=2217): - No immediate reconstruction (N=2726): Md=66, range 21-97 - Immediate reconstruction (N=270): Md=49, range 21-80	Patient	One item: "Did you feel involved in the decision-making process whether or not to perform breast reconstruction?" (Yes, Yes but not enough, No)	No
Fukui, 2014, USA ²⁶	Cross-sectional Audio-recorded consultations,	Psychiatric diagnosis Decisions during psychiatric visits	N=128 Female: 50.8% Age: M=43.4, SD=10.63	Observer	SDM scale	No

	information provided by clinician					
Geessink, 2018, The Netherlands ²⁷	Cross-sectional Observations, questionnaire	Colorectal or pancreatic cancer Cancer treatment	N= 80 Female: 45.0% Age: M=71.8, SD=5.2	Patient Observer	SDM-Q-9 and VAS-I OPTION-5, OPTION-12 and MAPPIN'SDM	Yes Multiple SDM measures
Gong, 2011, South Korea ²⁸	Prospective Information obtained during consultations, questionnaire	Carpal tunnel syndrome Surgery	N=78 Female: 91.0% Age: Md=57, range=27- 81	Patient	CPS (actual)	No
Goss, 2008, Italy ²⁹ *	Cross-sectional Audio-recorded consultations, questionnaire	Psychiatric diagnosis Treatment of main problem (most often anxiety or depression)	N=80 Female: 61.0% Age: M=43.6, SD=13, range=23-76	Observer	OPTION-12	No
Hamalainen, 2003, Finland ³⁰	Retrospective Questionnaire	Respiratory care Start of respiratory care therapy	N=3153 Female: 29.0% Age: M=61, range=16- 95	Patient	One item: "Were you allowed to participate in decision-making when the home respiratory care was started?" (Not at all, Somewhat, A great deal, Can't say)	No
Hamann, 2010, Germany ³¹ *	Cross-sectional Questionnaire	Schizophrenia Antipsychotic medication	N= 300 Female: 41.7% Age: M=39.7, SD=12.3	Physician	Physicians were asked whether the choice of medication was: 1. the doctor's preference; 2. the patient's preference; or 3. the result of a decision shared between doctor and patient.	No
Hamelinck, 2018, The Netherlands ³² *	Prospective Questionnaire	Breast cancer Type of surgery (breast-conserving or mastectomy), and for patients with invasive disease also adjuvant	N=74 Female: 100% Age: - Surgery (n=74): Md=60, range=42-80	Patient	CPS (actual)	Yes Separate analyses for decisions about surgery, adjuvant chemotherapy, and

		chemotherapy and/or adjuvant hormonal therapy	- Adjuvant chemotherapy (n=43): Md=60, range=42-76 - Adjuvant hormonal therapy (n=39): Md=60, range=42-86			adjuvant hormonal therapy
Hawley, 2007, USA ³³	Cross-sectional Questionnaire, Surveillance, Epidemiology, and End Results (SEER) record	Ductal carcinoma in situ (DCIS) or breast cancer Breast cancer surgery	N=1038 Female: 100% Age: M=59, range=29- 79	Patient	CPS (actual)	Yes Age analyzed as continuous and categorical variable
Hawley, 2008, USA ³⁴	Cross-sectional Questionnaire	Breast cancer Breast cancer surgery	N=877 Female: 100% Age: M=59, range=29- 79	Patient	CPS (actual)	No
Hou, 2014, China ³⁵ *	Cross-sectional Questionnaire, medical record	Colorectal cancer Surgery	N=113 Female: 42.5% Age: M=62.8, SD=15.3, range=22-91	Patient	CPS (actual)	No
Kadmon, 2016, Israel ³⁶	Cross-sectional Questionnaire	Breast cancer Breast reconstruction surgery	N=70 Female: 100% Age: M=52.7, SD=10.2, Md=52	Patient	Two questions about level of involvement in decision making: 1. "What was the extent of your involvement in the decision-making process?" (Not involved, Slightly involved, Highly involved) 2. "How were decisions made about your breast reconstruction?" (The physician decided, The physician and I decided together, The physician decided after hearing my opinion, I	No

decided after hearing the

Cross-sectional Computer-assisted telephone interview, registry data, medical record Cancer treatment						physician's opinion)	
USA 38 Questionnaire Cancer treatment Age: -18-39 years (n=227): M=30, 8, D=5.06 -40-59 years (n=183): M=49.6, 5D=5.75 -260 years (n=169): M=66, 5D=6.4 Netherlands 39 * Runneman, 2014, The Netherlands 39 * Questionnaire Cross-sectional Audio recorded consultation, referral letter Larsson, 1989, Sweden 41 * Questionnaire Cardiac Datients Cardiac Datients Carging Discovers (age: -18-39 years (n=1227): M=30, 8, D=5.06 -40-59 years (n=1283): M=49.6, 5D=5.75 -260 years (n=169): M=68.6, 5D=6.4 N=53 (relevant parts) N=666 Patient No Patient No One question: "Do you feel decision about whether or not to undergo VBT?" (No, Yes, I don't know) No No Observer Female: 47.0% Age: M=61 Cardiac Datients Orthopedic patients Surgery Patient One question to indicate who they believed made the decision (Joint patient, decision (Joint patie	Keating, 2010, USA ³⁷	Computer-assisted telephone interview, registry data, medical	cancer Surgery, radiation therapy, and/or	Female: 46.6% Age: - 21-55 years: n=618 - 56-70 years: n=1963 - 71-80 years: n=1585	Patient	CPS (actual)	No
Netherlands 39 * Questionnaire Vaginal brachytherapy subsample patients who faced a decision; decision about whether or total sample: N=95) not to undergo VBT?" (No, Yes, I don't know) Langseth, 2012, UK 40 * Cross-sectional Audio recorded consultation, referral letter Larsson, 1989, Sweden 41 * Cross-sectional Questionnaire Cardiac patients Orthopedic patients N=666 Patient One question to indicate who they believed made the decision (Joint patient-graph). The patient decision about whether or not to undergo VBT?" (No, Yes, I don't know) Yes, I don't know) N=49 Pemale: 47.0% Age: M=61 Cardiac patients Orthopedic patients N=666 Patient One question to indicate No Age: M= 56.6, decision (Joint patient-graph) doctor, Doctor, Patient,	USA ³⁸		Cancer treatment	Age: - 18-39 years (n=227): M=30.8, SD=5.06 - 40-59 years (n=183): M=49.6, SD=5.75 - ≥60 years (n=169): M=68.6, SD=6.4		scale statements that measure the extent to which patients were involved. Categorized as Independent/isolated, Collaborative, Delegated, or Demanding roles.	
Audio recorded consultation, referral letter Cardiac patients Larsson, 1989, Sweden Questionnaire Cardiac patients N=666 Patient One question to indicate Who they believed made the Age: M=56.6, range=15-94 doctor, Doctor, Patient,				subsample patients who faced a decision; total sample: N=95) Female: 100% Age (N=95): Md=68;	Patient	you had a choice in the decision about whether or not to undergo VBT?" (No,	No
Larsson, 1989, Sweden Cross-sectional Orthopedic patients N=666 Patient One question to indicate No 41 * Questionnaire Surgery Female: not reported who they believed made the Age: M= 56.6, decision (Joint patient-range=15-94 doctor, Doctor, Patient,	Langseth, 2012, UK ⁴⁰ *	Audio recorded consultation, referral	Cardiac patients	Female: 47.0%	Observer	OPTION-12	No
			Orthopedic patients	Female: not reported Age: M= 56.6,	Patient	who they believed made the decision (Joint patient-doctor, Doctor, Patient,	No

Lofland, 2017, USA ⁴² *	Cross-sectional Questionnaire, pharmacy and medical claims	Inflammatory bowel disease, rheumatoid arthritis or psoriatic arthritis Biologic therapy	N= 306 Female: 77.8% Age: - SDM (n=120): M=47.9, SD=11.6 - Non-SDM (n=237): M=48.0, SD=12.4	Patient	SDM-Q-9	No
Mandelblatt, 2006, USA ⁴³	Cross-sectional Patient interview, medical records	Breast cancer Surgery and/or adjuvant treatment	N=718 Female: 100% Age: M=75	Patient	Four five-point Likert scale items to measure domains of SDM (e.g.: "I asked my surgeon to explain breast cancer treatments and/or procedure(s) to me in greater detail" (Strongly agree to Strongly disagree)	No
Matthias, 2014, USA ⁴⁴ *	Cross-sectional Audio-recorded consultations, questionnaire	Posttraumatic stress disorder (PTSD) Decisions during psychiatric appointments	N=63 (relevant subsample of patients who had faced a decision; total sample: N=79) Female (N=79): 14.0% Age (N=79): M=53, SD=10, range=23-71	Observer	SDM scale SDM-Min	Yes Separate analyses for the two SDM scales
Moral, 2014, Spain ⁴⁵	Cross-sectional Videotaped consultation, patient interview	Various (primary care), either psychological or somatic problem Specific treatment decision not reported	N=368 (relevant subsample; total sample: N=658) Female (N=658): 60.9% Age (n=658): M=52, range 18-88	Observer	CICAA-D	No
Morgan, 2015, UK ⁴⁶ *	Cross-sectional Questionnaire	Breast cancer Surgery or primary endocrine therapy	N=729 Female: 100%	Patient	CPS (actual)	No

			Age: Md=77, range=70- 96			
Mueck, 2018, USA ⁴⁷ *	Cross-sectional Questionnaire	Gallstone disease Cholecystectomy	N=30 Female: 90.0% Age: M=46, SD=16	Patient	SDM-Q-9	No
Nguyen, 2014, France	Cross-sectional Questionnaire	Breast cancer Treatment for early stage breast cancer	N=238 Female: 100% Age: M=56.3, SD=10.3, range=37-84	Patient	One question: "To what extent did you actually participate in deciding on your treatment?" (Not at all to To a great extent)	No
Ommen, 2011, Germany ⁴⁹ *	Cross-sectional, retrospective Questionnaire	Inpatients of internal medicine or surgery wards Specific decision not reported	N=2197 Female: 26.3% Age: 18-30 years (n=454): 21.2% 31-65 years (n=1177): 55.0% 66-97 years (n=509): 23.8% range=18-97	Patient	Cologne Patient Questionnaire scale 'co- therapy' consisting of four items: e.g., "The doctors wanted me to be actively involved in the treatment process" (Strongly disagree to Strongly agree)	No
Palmer, 2013, USA ⁵⁰ *	Cross-sectional, secondary analyses Questionnaire	Prostate cancer Surgery, radiation, watchful waiting, other	N=181 Female: 0.0% Age: M=61.3, SD=7.0, range=43-70	Patient	CPS (actual)	No
Phipps, 2008, USA ⁵¹ *	Cross-sectional Questionnaire	Cancer Second-line chemotherapy	N=26 Female: 50.0% Age: M=61, range=22- 79	Patient	One question assessing participants' perception of involvement in decision making (I made final decision about which treatment I would receive to My doctor made all the decisions regarding my treatment)	No

Sainio, 2003, Finland ⁵² * Santema, 2016, The Netherlands ⁵³ *	Cross-sectional Questionnaire Cross-sectional Audio-recorded consultations	Cancer Cancer treatment Vascular condition Vascular surgery	N=273 Female: 60.4% Age: M=49.7, SD=10.5, range=18-65 N=54 Female: 42.6%	Patient Observer	12 items (To a great extent, To some extent, Not at all) OPTION-12	No
Seror, 2013, France ⁵⁴	Prospective Questionnaire, interview	Breast cancer Surgery, chemotherapy, and/or adjuvant endocrine therapy	Age: M=69.1, SD= 15.2 N=415 Female: 100% Age: M=36.8, SD=3.8	Patient	CPS (actual)	Yes Separate analyses for decisions about surgery, chemotherapy, and adjuvant endocrine therapy
Shabason, 2014, USA ⁵⁵ *	Cross-sectional Questionnaire	Cancer Radiation therapy	N=305 Female: 47.5% Age: M=59.8, SD=12.0, range=18-87	Patient	Three 5-point scale items to assess physicians' participatory decision style: e.g., "If there were a choice between treatments, would your radiation oncologist ask you to help him/her make the decision?" (Definitely yes to Definitely no)	No
Shen, 2019, Taiwan ⁵⁶ Cross-sectional Questionnaire, medical chart review		Breast cancer Breast cancer treatment (type of surgery and/or neo- adjuvant chemotherapy) or treatment of complications after breast cancer treatment (e.g., compression garments	N=511 Female: 100% Age: M=57.9, SD=11.1	Patient	SDM-Q-9	No

or massage for
lymphedema)

Singh, 2010, Australia 57	Prospective, observational Audio recording, questionnaire	Cancer Adjuvant treatment (chemotherapy and/or radiation	N=63 Female: 63.5% Age: M=54.9, SD=13.1, range=24-84	Observer	Self-developed coding system consisting of 20 behaviors: e.g., "Reason for consultation established" or "Multiple options presented" (Present or Not applicable, Absent)	No
Singh, 2010, USA & Canada ⁵⁸ *	Pooled analysis Questionnaire, interview, medical chart review	Cancer Cancer treatment	N=2742 (relevant subsample of patients who reported actual decisional role, total sample N=3489) Female (N=3489): 67.7% Age (n=2144): <50: n=809 (37.7%) 50-64: n=35 (1.6%) >64: n=1300 (60.6%)	Patient	CPS (actual)	No
Solberg, 2014, USA ⁵⁹	Cross-sectional Questionnaire	Patients with a fill for antidepressant medication Depression treatment	N=1168 Female: 72.9% Age: M=44.2, - 18-34: n=344 (29.5%) - 35-49: n=391 (33.5%) - 50-64: n=347 (39.7%) - ≥65: n=86 (7.4%)	Patient	Six questions about SDM aspects of care: e.g., "During the past 6 months of depression treatment, were you asked for your ideas and preferences regarding your depression treatment?" (Yes/No)	No
Song, 2013, USA ⁶⁰	Prospective Questionnaire, medical record	Prostate cancer Prostate cancer treatment	N=788 Female: 0.0% Age: - <65 years: N=483 (63.3%) - ≥65 years: N=280 (36.7%)	Patient	One question: "Who was mostly responsible for deciding what to do about prostate cancer when you were first diagnosed?" (Patient only, Shared, Physician only)	No

Suzuki, 2012, USA ⁶¹ *	Prospective Questionnaire, medical record	Head and neck cancer Head and neck cancer treatment	N=52 Female: 28.8% Age: M=58.3, SD=12.4	Patient	PICS	No
Vaillancourt, 2014, Canada ⁶² *	Observational, cross- sectional Audio recorded consultation, patient questionnaire	Diet-related health condition Nutritional treatment	N=19 Female: 57.9% Age: M=40.2, SD=25.2	Observer	OPTION-12	No
Van Stam, 2018, The Netherlands ⁶³	Prospective observational Questionnaire, medical record	Prostate cancer Prostate cancer treatment (active surveillance, radical prostatectomy, external beam radiotherapy, brachytherapy)	N=454 (relevant subsample of patients who completed the CPS for the actual decisional role, total sample N=474) Female: 0.0% Age: M=66.5, SD=6.1, range=48-87	Patient	CPS (actual)	No
Verwijmeren, 2018, The Netherlands ⁶⁴	Cross-sectional, real-time observation of consultation Questionnaire	Bipolar disorder Pharmacotherapy treatment	N=81 Female: 64.2% Age: M=52.0, SD=13.6	Patient Observer	SDM-Q-9 OPTION-12	No
Yamauchi, 2017, Japan ⁶⁵ *	Cross-sectional Questionnaire	Breast cancer Breast cancer treatment	N=650 Female: 100% Age: - <50: N=202 (31.1%) - ≥50: N=448 (68.9%)	Patient	CPS (actual)	No

^a The study design and data collection as is relevant for our research; ^b Rounded to one decimal place where possible; * Study reporting only univariable analyses for the characteristics relevant to this review

M=mean; SD=Standard deviation

References for the SDM measures in the table: CICAA-D; 45 CollaboRATE; 66 CPS (Control Preferences Scale) actua; $^{167-69}$ MAPPIN'SDM; 70 OPTION-5; 71 OPTION-12, 72 PICS; 73 SDM-scale; 74 SDM-Q-9. 76 77

Table 2. Associations between sociodemographic characteristics and occurrence of SDM, by measurement perspective

		Patient-reported				Observer-reported				Physician-reported				
Characteristic	n	Positive	Negative	Mixed	Unclear	N.S.	Positive	Negative	Mixed	N.S.	Positive	Negative	Mixed	N.S.
Age, gender, ethnicity/nationality														
Older age	45ª	2 ⁴⁶ ⁴⁹	816 18 19 23 43 58 59 63	4 14 33 54 78	-	22 15 20 21 27 28 30 32 35-38 42 47 48 50 52 55 56 60 61 64 65	1 ²⁷	1 ⁵⁷	-	8 26 29 40 44 45 53 62 64	-	-	-	131
Female	30 a	4 ¹³ 18 35 42	4 30 49 51 58	127	-	13 ¹⁴ 16 19-21 28 37 38 47 52 55 59 64	-	-	1 ²⁷	826 29 44 45 53 57 62 64	-	-	-	131
Ethnicity (white)	16	-	-	114	137	12 ²¹ 33 34 38 42 43 47 50 55 59 60 63	-	-	-	226 44	-	-	-	-
Minority status	1	-	-	-		115	-	-	-	-	-	-	-	-
Country of birth	1	-	-	-	-	1 ⁴¹	-	-	-	-	-	-	-	-
Nationality (American compared to Canadian)	1	1 ⁵⁸	-	-	-	6	16	-	-	-	-	-	-	-
Education and work														
Higher educated	31ª	2 ^{59 63}	1 ³⁰	114	1 ⁵⁰	22 13 15 16 18 20 21 23 27 28 33 35 37-39 43 48 51 52 54-56 60	-	-	1 ²⁷	3 ^{45 57 62}	-	-	-	1 ³¹
Higher health literacy	2	114	-	1 ⁵⁶	-	-	-	-	-	-	-	-	-	-
English language proficiency	1	1 ¹⁴	-	-	-	-	-	-	-	-	-	-	-	-
English as first language	2	-	-	-	-	1 ⁴⁷	-	-	-	1 ⁵⁷	-	-	-	-
Employed	8	1 ⁵⁹	-	-	-	6 ³⁰ 48 52 55 56 65	-	-	-	1 ⁶²	-	-	-	-
Higher income	7	2 ^{30 38}	-	1 ⁵⁹	-	4 ¹⁵ 37 48 51	-	-	-	-	-	-	-	-
SES	1	-	-	-		1 ⁴⁹	-	-	-	-	-	-	-	-

Involved in extra professional activities	1	-	-	-	-	1 ⁴⁸	-	-	-	-	-	-	-	-
Involved in leisure activities	1	148	-	-	-	-	-	-	-	-	-	-	-	-
Social situation														
Relationship status: married or in committed relationship	16	3 ³⁷ 48 52	50	-	1 ⁵⁰	11 ¹⁵ 23 38 39 43 54-56 59 60 63	-	-	-	1 ⁴⁵	-	-	-	-
Having children	3	-	-	-		3 ³⁹ 52 54	-	-	-	-	-	-	-	-
Living alone	2	-	1 ⁵²	-/		1 ²¹	-	-	-	-	-	-	-	-
Having a caregiver	1	1 ²⁸	-	-		-	-	-	-	-	-	-	-	-

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^a One or more of these studies used both a patient- and observer-based 'ON' measurement; Not included in table: Insurance status and region.

Table 3. Associations between general health and clinical characteristics of condition or decision of interest and occurrence of SDM, by measurement perspective

			Pati	ent-report	ed			Observer-r	eported			Physician-rep	orted	
Characteristic	n	Positive	Negative	Mixed	Unclear	N.S.	Positive	Negative	Mixed	N.S.	Positive	Negative	Mixed	N.S.
General health														
Comorbidities	10 ª	142	-	-	-	915 21 27 28 37 39 43 54 63	1 ²⁷	-	-	-	-	-	-	-
Better general health status	5	3 ³⁷ 52 59	142	/-	<u></u>	1 ⁵⁶	-	-	-	-	-	-	-	-
Better physical functioning	1	-	-	-	-	143	-	-	-	-	-	-	-	-
Quality of life	2 a	-	-	127	- (161	-	-	-	1 ²⁷	-	-	-	-
Health related quality of life	1	-	-	-	-	1 ⁶³	-	-	-		-	-	-	-
Frailty	1 a	-	1 ²⁷	-	-	-		-	-	1 ²⁷	-	-	-	-
BMI/weight	3	-	-	-	-	3 ^{15 21 55}	-	-	-	-	-	-	-	-
Smoking	2	-	-	-	-	2 ^{15 30}	-		1,-	-	-	-	-	-
Depressive symptoms	3	-	-	1 ¹⁶	-	2 ^{51 59}	-	-	-	-	-	-	-	-
History of depression	1	-	-	-	-	1 ⁶³	-	-	-	-	-	-	-	-
Anxiety	1	-	-	-	-	1 ¹⁶	-	-	-	-	-	-	-	-
Clinical characteri	ictics of	condition	or decision of	f interest										
Cancer severity	11	-	423 58 60 65	1 ⁵⁶	-	6 ¹⁵ 33 43 54 55 63	-	-	-	-	-	-	-	-
Symptom severity	4 ^a	-	-	1 ¹⁶	164	1 ⁵⁹	-	-	-	1 ⁶⁴	-	1 ³¹	-	-
Longer illness duration	2	-	-	-	-	114	-	-	-	-				1 ³¹

Longer time since diagnosis	1	1 ⁵⁶	-	-	-	-	-	-	-	-	-	-	-
Higher number of drugs	2 a	-	-	-	219 27				1 ²⁷	-	-	-	-
Prior treatment	2	1 ⁵⁹	-	-	1 ²⁸	-	-	-	-	-	-	-	-
Longer duration of total treatment by same mental health specialist	2 a	-	-	-	164				244 64	-	-	-	-
Positive family history of the disease	1	-	-	154	-	-	-	-	-	-	-	-	-
Regular cancer screening prior to cancer diagnosis	1	-	-	-	1 ⁵⁴	-	-	-	-	-	-	-	-
Risk of developing heart disease	1	-	-	-	1 ²⁴	0/	- ',°	-	-	-	-	-	-
^a One or more of the	se stud	lies used both	a patien	t- and observer-based	d SDM measur	ement; Not	הליטול: Did	agnosis.					

Table 4. Associations between psychological and coping with illness-related characteristics and occurrence of SDM, by measurement perspective

			Patien	t-reported			Observ	er-reported			Physicia	an-reported	
Characteristic	n	Positive	Negative	Mixed	N.S.	Positive	Negative	Mixed	N.S.	Positive	Negative	Mixed	N.S.
Decision-related													
Knowledge about the condition	1	-	-	-	1 ²⁸	-	-	-	-	-	-	-	-
Accompanied to visit	1	143		-	-	-	-	-	-	-	-	-	-
Pre-consultation anxiety	1	-	-	-	-	-	-	-	1 ⁵⁷	-	-	-	-
Fear of financial burden	1	-	-		1 ²⁸	-	-	-	-	-	-	-	-
Positive attitude towards treatment	3	216 19	-	-	-	-	-	-	-	131	-	-	-
Medication adherence	1	-	-	-	-	10	_	144	-	-	-	-	-
Positive patient assessment of disease	1	-	-	114	-	-	-	-	-	-	-	-	-
Illness insight	1	-	-	-	-	-	-		-	1 ³¹	-	-	-
Illness uncertainty	1	-	-	-	1 61	-	-	-	-	-	-	-	-
Illness self- management	1	-	-	-	-	-	-	-	144	-	-	-	-
Patient activation	1	-	-	-	-	-	-	-	144	-	-	-	-
General													
General perceived self-efficacy	2	2 ^{18 19}	-	-		-	-	-	-	-	-	-	-
Internal health locus of control	2	-	-	-	2 ¹⁸ 19	-	-	-	-	-	-	-	-
Active coping	1	-	-	-	1^{63}	-	-	-	-	-	-	-	-
Ability to cope with daily life	1	1 ³⁰	-	-	-	-	-	-	-	-	-	-	-

For beer teview

Reactance proneness	1	-	-	-	1 ¹⁹	-	-	-	-	-	-	-	-
Tendency to excuse	1	-	-	-	1 ⁴⁹	-	-	-	-	-	-	-	-
Religiosity ^a	1	-	1 ⁵¹	-	-	-	-	-	-	-	-	-	-

^aDefinition: The extent to which someone believes that their religion is part of all aspects of their life.

Table 5. Associations between SDM style or preference and occurrence of SDM, by measurement perspective

			Patient-r	eported			Observer-	reported			Physician-	reported	
Characteristic	n	Positive	Negative	Mixed	N.S.	Positive	Negative	Mixed	N.S.	Positive	Negative	Mixed	N.S.
Involved in previous decision about cancer treatment	1	1 ⁵⁴		-	-	-	-	-	-	-	-	-	-
Preference for involvement	2	-	-	1 ⁵⁴	-	-	-	-	1 ⁵⁷	-	-	-	-
Desire for autonomy	1	-	- (1 ⁴⁷	-	-	-	-	-	-	-	-
Avoiding or deferring decision-making style	1	-	1 ³⁶	-	-	-	-	-	1	-	-	-	-

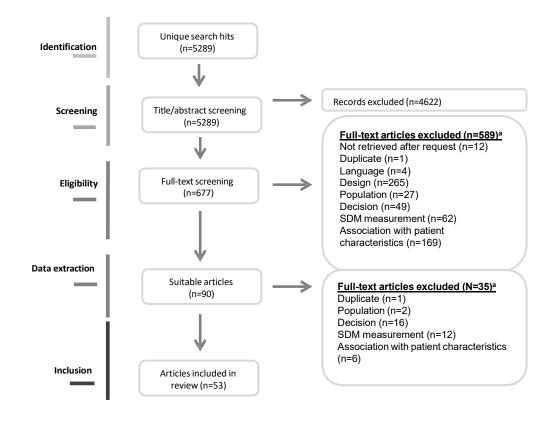


Figure 1.

^a Reasons for exclusion are in hierarchical order; SDM, shared decision making

APPENDIX A: Search stragey in PubMed

(("understanding"[tiab] OR understand*[tiab] OR "Comprehension"[Mesh] OR "Comprehension"[tiab] OR "Time"[tiab] OR "Time Factors"[Mesh] OR "Time"[mesh:noexp] OR "Emotional distress"[tiab] OR "Emotional stress"[tiab] OR "Stress, Psychological"[Mesh:NoExp] OR "Psychological Stress"[tiab] OR "Psychological Distress"[tiab] OR "Depression"[Mesh] OR "Depression"[tiab] OR "Anxiety"[mesh:noexp] OR "anxiety"[tiab] OR "Fear"[mesh:noexp] OR "fear"[tiab] OR "Assertiveness"[Mesh] OR "Assertiveness"[tiab] OR unequal*[tiab] OR "Power (Psychology)"[Mesh] OR "Trust"[Mesh] OR "Trust"[tiab] OR "Trusting"[tiab] OR "Trusted"[tiab] OR trust*[tiab] OR "Confidence"[tiab] OR "confident"[tiab] OR confiden*[tiab] OR ("cognitive"[tiab] AND "overload"[tiab]) OR "cognitive load"[tiab] OR "Friends"[Mesh] OR "companion"[tiab] OR "companions"[tiab] OR "Caregivers"[Mesh] OR "Caregivers"[tiab] OR "Caregiver"[tiab] OR "Carers"[tiab] OR "Carer"[tiab] OR "information processing"[tiab] OR "Mental Processes"[mesh:noexp] OR (accept*[tiab] AND diagnos*[tiab]) OR ("Patient Participation"[majr] AND ("decision making"[tiab] OR "decisionmaking"[tiab] OR "shared decision"[tiab] OR "shared decisions"[tiab] OR "treatment decision making"[tiab] OR "therapy decision making"[tiab] OR "surgery decision making"[tiab] OR "Decision Making"[majr])) OR "Personal Autonomy"[Mesh] OR "Autonomy"[tiab] OR "feeling safe"[tiab] OR "feeling unsafe"[tiab] OR "atmosphere"[tiab] OR "patient query"[tiab] OR "patient question"[tiab] OR "patients query"[tiab] OR "patients question"[tiab] OR "patient's query"[tiab] OR "patient's question"[tiab] OR "patients' query"[tiab] OR "patients' question" [tiab] OR "patient queries" [tiab] OR "patient questions" [tiab] OR "patients queries"[tiab] OR "patients questions"[tiab] OR "patient's queries"[tiab] OR "patient's questions"[tiab] OR "patients' queries"[tiab] OR "patients' questions"[tiab] OR "Mental Disorders"[Mesh] OR "Mental Disorders"[tiab] OR "Mental Disorder"[tiab] OR "Mental Disease"[tiab] OR "Mental Diseases"[tiab] OR "convictions"[ti] OR "conviction"[ti] OR "Patient Satisfaction"[mesh] OR "Patient Satisfaction"[tw] OR "Patients Satisfaction"[tw] OR "Patient's Satisfaction"[tw] OR "attitude"[ti] OR "attitudes"[ti] OR attitude*[ti] OR "opinion"[ti] OR "opinions"[ti] OR "opine"[ti] OR "patient competency"[tw] OR "Cultural Competency"[mesh] OR "Attitude"[majr] OR patients conviction*[tw] OR patient attitude*[tw] OR patients attitude*[tw] OR patient's attitude*[tw] OR patient opinion*[tw] OR patients opinion*[tw] OR patient's opinion*[tw] OR patient competenc*[tw] OR patients competenc*[tw] OR patient's competenc*[tw] OR "Information Literacy"[mesh] OR "Health Literacy"[mesh] OR "literacy"[ti] OR "illiteracy"[ti] OR "literate"[ti] OR "illiterate"[ti] OR "numeracy"[ti] OR "patient health literacy"[tw] OR "patient literacy"[tw] OR "patient's health literacy"[tw] OR "deliberation"[ti] OR "deliberations"[ti] OR "considered"[ti] OR "considers"[ti] OR "consider"[ti] OR "consideration"[ti] OR "considerations"[ti] OR "weigh"[ti] OR "weighs"[ti] OR "weighing"[ti] OR "Social Values"[mesh] OR "value"[ti] OR "values"[ti] OR "goal"[ti] OR "goals"[ti] OR "Goals"[mesh] OR "Motivation"[mesh] OR "motivation"[ti] OR "deliberate"[ti] OR "deliberated"[ti] OR patient goal*[tw] OR patients goal*[tw] OR patient's goal*[tw] OR patient value*[tw] OR patients value*[tw] OR patient's value*[tw] OR patient motivat*[tw] OR patients motivat*[tw] OR patient's motivat*[tw] OR patient considerat*[tw] OR patients considerat*[tw] OR patient's considerat*[tw] OR "Communication"[mesh:noexp] OR "communication"[ti] OR "communications"[ti] OR "communicate"[ti] OR "communicated"[ti] OR "communicates"[ti] OR "communicating"[ti] OR "interaction"[ti] OR "interactions"[ti] OR

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Preferred Reporting Items for Systematic reviews and Meta-Analyses extension for Scoping Reviews (PRISMA-ScR) Checklist

SECTION	ITEM	PRISMA-ScR CHECKLIST ITEM	REPORTED ON PAGE #
TITLE			ONT NOL II
Title	1	Identify the report as a scoping review.	1
ABSTRACT			
Structured summary	2	Provide a structured summary that includes (as applicable): background, objectives, eligibility criteria, sources of evidence, charting methods, results, and conclusions that relate to the review questions and objectives.	3
INTRODUCTION			
Rationale	3	Describe the rationale for the review in the context of what is already known. Explain why the review questions/objectives lend themselves to a scoping review approach.	4
Objectives	4	Provide an explicit statement of the questions and objectives being addressed with reference to their key elements (e.g., population or participants, concepts, and context) or other relevant key elements used to conceptualize the review questions and/or objectives.	4
METHODS			
Protocol and registration	5	Indicate whether a review protocol exists; state if and where it can be accessed (e.g., a Web address); and if available, provide registration information, including the registration number.	5
Eligibility criteria	6	Specify characteristics of the sources of evidence used as eligibility criteria (e.g., years considered, language, and publication status), and provide a rationale.	5
Information sources*	7	Describe all information sources in the search (e.g., databases with dates of coverage and contact with authors to identify additional sources), as well as the date the most recent search was executed.	5
Search	8	Present the full electronic search strategy for at least 1 database, including any limits used, such that it could be repeated.	Appendix A
Selection of sources of evidence†	9	State the process for selecting sources of evidence (i.e., screening and eligibility) included in the scoping review.	5
Data charting process‡	10	Describe the methods of charting data from the included sources of evidence (e.g., calibrated forms or forms that have been tested by the team before their use, and whether data charting was done independently or in duplicate) and any processes for obtaining and confirming data from investigators.	5
Data items	11	List and define all variables for which data were sought and any assumptions and simplifications made.	5
Critical appraisal of individual sources of evidence§	12	If done, provide a rationale for conducting a critical appraisal of included sources of evidence; describe the methods used and how this information was used in any data synthesis (if appropriate).	N/A
Synthesis of results	13	Describe the methods of handling and summarizing the data that were charted.	5



SECTION	ITEM	PRISMA-ScR CHECKLIST ITEM	REPORTED ON PAGE #
RESULTS			
Selection of sources of evidence	14	Give numbers of sources of evidence screened, assessed for eligibility, and included in the review, with reasons for exclusions at each stage, ideally using a flow diagram.	7 Figure 1
Characteristics of sources of evidence	15	For each source of evidence, present characteristics for which data were charted and provide the citations.	Tables 1-5 7-10
Critical appraisal within sources of evidence	16	If done, present data on critical appraisal of included sources of evidence (see item 12).	N/A
Results of individual sources of evidence	17	For each included source of evidence, present the relevant data that were charted that relate to the review questions and objectives.	Table 1 Appendix B
Synthesis of results	18	Summarize and/or present the charting results as they relate to the review questions and objectives.	7-10
DISCUSSION		•	'
Summary of evidence	19	Summarize the main results (including an overview of concepts, themes, and types of evidence available), link to the review questions and objectives, and consider the relevance to key groups.	11-12
Limitations	20	Discuss the limitations of the scoping review process.	3
Conclusions	21	Provide a general interpretation of the results with respect to the review questions and objectives, as well as potential implications and/or next steps.	12-13
FUNDING			
Funding	22	Describe sources of funding for the included sources of evidence, as well as sources of funding for the scoping review. Describe the role of the funders of the scoping review.	13

JBI = Joanna Briggs Institute; PRISMA-ScR = Preferred Reporting Items for Systematic reviews and Meta-Analyses extension for Scoping Reviews.

From: Tricco AC, Lillie E, Zarin W, O'Brien KK, Colquhoun H, Levac D, et al. PRISMA Extension for Scoping Reviews (PRISMAScR): Checklist and Explanation. Ann Intern Med. 2018;169:467–473. doi: 10.7326/M18-0850.



^{*} Where sources of evidence (see second footnote) are compiled from, such as bibliographic databases, social media platforms, and Web sites.

[†] A more inclusive/heterogeneous term used to account for the different types of evidence or data sources (e.g., quantitative and/or qualitative research, expert opinion, and policy documents) that may be eligible in a scoping review as opposed to only studies. This is not to be confused with *information sources* (see first footnote). ‡ The frameworks by Arksey and O'Malley (6) and Levac and colleagues (7) and the JBI guidance (4, 5) refer to the process of data extraction in a scoping review as data charting.

[§] The process of systematically examining research evidence to assess its validity, results, and relevance before using it to inform a decision. This term is used for items 12 and 19 instead of "risk of bias" (which is more applicable to systematic reviews of interventions) to include and acknowledge the various sources of evidence that may be used in a scoping review (e.g., quantitative and/or qualitative research, expert opinion, and policy document).