National Institute for Health and Care Excellence

Consultation

Perioperative care in adults

[A] Evidence review for information and support needs

NICE guideline Qualitative evidence review November 2019

Draft for Consultation

This evidence review was developed by the National Guideline Centre



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1 Information and support needs

1.1 Review question: What information and support is useful for adults undergoing surgery, and their families and carers, before, during and after an operation?

5 1.2 Introduction

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Surgery, whether minor or major, is a time of anxiety and concern for patients, family and carers. Patients need reassurance, information and answers to their many questions. While there is undoubtedly a wealth of information available on the internet, it is not easily accessible to those who do not have the IT skills or the means of access. For those who do access internet information it can be confusing, may not relate to practice within the NHS and, most importantly, does not necessarily respond to individual needs and circumstances.

Shared decision making is essential if postoperative pain is to be managed effectively,
 patient stress and anxiety minimised, emotional wellbeing maximised and strong recovery
 facilitated. The purpose of this qualitative review is to identify the information and support
 needs of people in the perioperative period.

17 **1.3 Characteristics table**

18 For full details see the review protocol in appendix A.

19 Table 1: Characteristics of review question

| Objective | To determine what information and support people with undergoing surgery and their families value. |
|------------------------|--|
| Population and setting | Adults 18 years and over having surgery, and their families and carers. |
| Context | Information may include, but is not limited to the following: Decision making (including involvement in discharge planning) Preferred format of information provision (e.g. plain English, web-based) Content of information (including ongoing care needs) Impact of treatment on lifestyle Information sources other than healthcare professionals (e.g. support groups, online resources) Psychological support Financial support Employment rights |
| Review strategy | Synthesis of qualitative research. Results are presented in a narrative format. Quality of the evidence is assessed by a GRADE CerQual approach for each review finding. |

20 1.4 Qualitative evidence

21 1.4.1 Included studies

Thirty three qualitative studies were included in the review;<sup>20, 32, 34, 39, 41, 58, 72, 74, 81, 85, 97, 102, 109, 115, 120, 135, 136, 141, 146, 164, 165, 174, 175, 179, 180, 184, 189, 197, 202, 208, 209, 223, 225 these are summarised in
 Section 1.4.3 below. Key findings from these studies are summarised in Section 1.4.4 below.
 See also the study selection flow chart in appendix C, study evidence tables in appendix D, and excluded studies lists in appendix E.
</sup>

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As a large number of papers were identified for this review, inclusion was halted once
 saturation was reached. Saturation is the point at which no new information emerged from
 studies that were found to match the review protocol. These studies are listed in Table 20 in
 appendix E.

5 1.4.2 Excluded studies

6 See the excluded studies list in appendix E.

.3 Summary of qualitative studies included in the evidence review

Table 2: Summary of studies included in the review

| Study | Design | Population | Research aim | Comments |
|-----------------------------|--|--|---|---|
| Secondary analyse | S | | | |
| Carrier 2018 ⁴¹ | Systematic review of qualitative studies | Men of all ages and nationalities who had a radicalized prostatectomy for prostate cancer | To identify men's perceptions of the impact of the physical consequences of a radicalized prostatectomy on their quality of life | A well-conducted systematic review, using established methods Focused on a specific outcome, but likely to have some wider applicability |
| Otutaha 2019 ¹⁶⁴ | Systematic review of qualitative studies | Adults with upper GI cancer | To determine the specific information needs of patients with upper GI cancer | A review with significant methodological limitations Reports some aspects of care that may have limited relevance to the NHS |
| See 2018 ¹⁸⁹ | Systematic review of patient education needs, reported in qualitative studies and patient surveys | Adults undergoing total joint arthroplasty | To systematically summarize and synthesize osteoarthritic patients' expectations and experiences in undergoing total joint arthroplasty to identify their educational needs | A review with some methodological limitations, including the use of survey data Results likely to be generalisable |
| Sibbern 2017 ¹⁹⁷ | Systematic review of qualitative studies | Adults who had undergone colorectal, cardiac, gynaecological, and orthopaedic surgery in an ERAS program, and were hospitalised equal to or longer than 36 hours | To systematically summarize and synthesize osteoarthritic patients' expectations and experiences in undergoing total joint arthroplasty to identify their educational needs | A review with no significant methodological limitations Results likely to be generalisable |
| Primary analyses | | | | |
| Baker 2018 ²⁰ | In-depth semi-structured face- to-face interviews with inductive thematic analysis | Patients who had undergone surgery for ulcerative colitis and patients who had | To explore patient information preferences prior to undergoing surgery for | A well-conducted study based in the UK |

| Study | Design | Population | Research aim | Comments |
|---|--|---|---|---|
| | | considered but not undergone surgery | ulcerative colitis | Focused on a specific condition (ulcerative colitis) and included some participants who had not had surgery, but results appear generally applicable. |
| Brands Appeldoorn 2019 ³² | In-depth semi-structured interviews with thematic analysis | Women who had undergone breast conserving treatment | To investigate the information needs of breast cancer patients regarding the long-term cosmetic outcome after breast conserving treatment | A study with some methodological limitations, based in the Netherlands Focused on a specific surgical intervention, but results appear generally applicable, particularly to procedures with substantial cosmetic impact |
| Brooke 2018 ³⁴ | Semi-structured focus groups with iterative thematic analysis | Adults who had undergone surgery for a chronic health condition and caregivers | To understand how patients and caregivers perceived care coordination during transitions of surgical care | A well-conducted study based in the US Focused on care during transition, but results appear generally applicable |
| Carr 2017 ³⁹ | In-depth telephone or face-to- face interviews with phenomenological analysis | Adults awaiting scheduled orthopaedic or cardiac surgery | To understand experiences of wait time among patients awaiting scheduled orthopaedic or cardiac surgery | A well-conducted study based in Canada Focused on waiting for surgery |
| Dibley 2018 ⁵⁸ | Semi-structured focus groups, using trigger questions, and telephone or face-to-face interviews, using a topic guide, with thematic analysis, guided by a pragmatic analytical hierarchy | Adults who had undergone stoma surgery or who were considering stoma surgery | To explore influences on patients' decision-making and compared preoperative concerns with postoperative outcomes related to stoma surgery | A study with some methodological limitations based in the UK Focused on a specific surgical intervention, but results appear generally applicable, although some participants had not undergone surgery |
| Fletcher 2019 ⁷² | Brief, structured telephone interviews with descriptive content analysis | Adults who had undergone total knee replacement and who continued to have extreme difficulty kneeling 7 to 10 years after surgery | To explore the long-term impact of difficulty with kneeling and how healthcare services could be improved to help patients kneel after | A well-conducted study based in the UK Focused on one specific outcome |

| Study | Design | Population | Research aim | Comments |
|---------------------------|--|--|---|--|
| | | | total knee replacement | |
| Gainer 2017 ⁷⁴ | Semi-structured focus groups with thematic analysis | Older adults who had undergone Coronary Artery Bypass Graft (CABG) surgery | To investigate the optimal approach to decision making | A well-conducted study based in Canada Focused on CABG surgery, but results appear generally applicable |
| Gustavell 2017 | 7 ⁸¹ Semi-structured interviews, face-to-face and by telephone, with inductive content analysis | Adults who had undergone pacreaticoduodenectomy | To explore common symptoms and self-care in the first 6 months after pacreaticoduodenectomy | A study with some methodological limitations based in Sweden Focused on a rare cancer but results appear generally applicable |
| Halm 2017 ⁸⁵ | Structured interviews, opened with a 'grand tour' question, with constant comparative analysis | Caregivers for adults who had undergone CABG surgery | To describe age and gender- specific concerns, needs, and strategies during the first 3 months after CABG | A well-conducted study based in the US Focused on CABG surgery, but results appear generally applicable |
| Hewitt 2019 ⁹⁷ | In-depth semi-structured face- to-face interviews with thematic qualitative analysis | Adults diagnosed with soft tissue sarcoma, not currently receiving radiotherapy or chemotherapy treatment | To gain a deeper understanding of patients' perceptions of treatment sequencing (surgery and radiotherapy) for soft tissue sarcoma, to identify concerns throughout treatment, and consider what patients found helpful | A well-conducted study based in the UK Focused on a specific condition (soft tissue sarcoma) and the experience of treatment sequencing, but results appear generally applicable |
| Høvik 2018 ¹⁰² | Semi-structured face-to-face focus groups with systematic text condensation | Patients undergoing total knee arthroplasty in a fast- track pathway | To explore the experience of patients undergoing total knee arthroplasty in a fast- track pathway during the first 2 weeks after surgery | A well-conducted study based in Norway Focused on a specific care model, but results appear generally applicable |
| Ivarsson 2018 | ¹⁰⁹ In-depth semi-structured face- to-face interviews with critical incident analysis | Adults who had undergone hip fracture surgery | To elucidate perceived situations of significance experienced by people with hip fracture during | A well-conducted study based in Sweden Results appear generally applicable |

| Study | Design | Population | Research aim | Comments |
|------------------------------|---|---|--|---|
| | | | prehospital and in-hospital care | |
| Kennedy 2017 ¹¹⁵ | Semi-structured face-to-face focus groups and interviews with inductive analysis | Adults attending follow-up visits for hip or knee replacement surgery | To determine the informational needs and delivery preferences for education of families and patients undergoing hip or knee replacement | A well-conducted study based in Canada Results appear generally applicable |
| Kyte 2018 ¹²⁰ | Semi-structured face-to-face interviews with qualitative content analysis | Adults who had surgery for primary lung cancer | To describe surgically treated lung cancer patients' experiences of coming home after discharge from hospital to expand the knowledge about their supportive care needs | A well-conducted study based in Norway Focused on a specific condition (lung cancer), but results appear generally applicable |
| Malley 2017 ¹³⁶ | Semi-structured interviews with thematic analysis | Adults in the preoperative phase of surgical care | To explore the issues and challenges of care transitions in the preoperative environment | A well-conducted study based in the US Results appear generally applicable |
| Malley 2018 ¹³⁵ | Semi-structured telephone interviews with qualitative content analysis | Older adults hospitalised for an elective hip or knee joint replacement | To explore how older patients with multiple chronic conditions and their family caregivers perceive their engagement and overall care experience throughout the preoperative phase of elective orthopaedic hip or knee joint replacement | A well-conducted study based in the US Results appear generally applicable, although this is a population of older adults |
| McMullen 2019 ¹⁴¹ | Qualitative focus groups and interviews, using a modified grounded theory approach for analysis, complemented by analytic memos and comparative analysis | Adults who received a cystectomy with urinary diversion (ileal conduit, neobladder, or continent pouch) for the treatment of bladder cancer | To identify patients' needs and challenges from pretreatment to approximately 2 years after surgery, and to identify how these needs were addressed across 2 different delivery | A study with some methodological limitations, based in the US May be limited in some aspects around applicability to the NHS |

| Study | Design | Population | Research aim | Comments |
|--------------------------------------|--|---|--|---|
| | | | systems | |
| Meleo-Erwin 2019 ¹⁴⁶ | Qualitative, thematic analysis of selected online comments, using web-based software | People who posted on two online weight-loss surgery forums | To describe the post- operative experience of bariatric surgery from the perspective of patients themselves | A study with significant methodological limitations, focused on US-specific issues May be limited in some aspects around applicability to the NHS |
| Owers 2017 ¹⁶⁵ | In-depth interviews, with a general inductive analysis | Adults who had undergone bariatric surgery | To explore issues missing from preoperative education for bariatric surgery | A well-conducted study based in the UK Results appear generally applicable |
| Rattray 2019 ¹⁷⁴ | In-depth semi-structured face- to-face interviews with thematic qualitative analysis | Adults admitted for a lower GI surgical procedure | To explore patients' perceptions of recommencing feeding after colorectal surgery to determine areas of improvement to meet their needs and expectations | A well-conducted study based in Australia May have some limited applicability as focused on a specific intervention (post-surgical nutrition) |
| Recio-Saucedo 2018 ¹⁷⁵ | Semi-structured face-to-face interviews with qualitative framework analysis | Women diagnosed with breast cancer aged 40 years or younger who had undergone surgery | To investigate the information requirements of young women to support their treatment decision making at diagnosis | A well-conducted study based in the UK Results appear generally applicable, although this is a population of younger women |
| Rosaasen 2017 ¹⁷⁹ | Semi-structured interviews with thematic analysis | Adults who had a kidney transplant | To identify pretransplant education topics from the posttransplant patient perspective | A study with some methodological limitations, based in Canada Results appear generally applicable, although the time from surgery is long, participants were asked about what they wish they had known at the time of surgery |
| Rosenberg 2018 ¹⁸⁰ | Focus groups, using a semi- structured approach with thematic content analysis | Women aged 40 years or younger with stage 0 to III breast cancer, who had undergone breast cancer surgery | To explore the process of surgical decision-making in young women, including how issues particular to younger women affected their | A well-conducted study based in the US Results appear generally applicable, although this is a population of younger women |

| Study | Design | Population | Research aim | Comments |
|-----------------------------------|---|--|--|---|
| | | | decision and the post- surgical experience | |
| Samuelsson 2018 ¹⁸⁴ | Semi-structured face-to-face interviews with inductive content analysis | Older adults who had undergone elective colorectal cancer surgery with curative intent | To describe how older patients experience the healthcare chain and information given before, during and after colorectal cancer surgery | A well-conducted study based in the US Results appear generally applicable, although this is a population of older people |
| Smith 2018 ²⁰² | Semi-structured face-to-face interviews with content analysis | Adults who had undergone hip or knee arthroplasty and who used high doses of opioids after surgery | To understand patients educational needs on pain management when undergoing hip or knee arthroplasty | A well-conducted study based in the US Results may be less applicable to countries other than the US, because of the differences in opioid prescribing and use |
| Strickland 2018 ²⁰⁸ | Semi-structured face-to-face interviews with thematic analysis | Adults undergoing lower limb (hip or knee) arthroplasty | To explore patients' perspective of surgery and early recovery when undergoing lower limb (hip or knee) arthroplasty | A well-conducted study based in the UK Results appear generally applicable |
| Stutzman 2017 ²⁰⁹ | Semi-structured face-to-face interviews with hermeneutic cycling, and thematic analysis | Patients and family members experiencing a perioperative event that would result in a transfer to the ICU | To identify important patient and family perspectives regarding the transition from the operating room to the ICU | A study with some methodological limitations, based in the US Results appear generally applicable |
| Webb 2018 ²²³ | Semi-structured face-to-face interviews with thematic analysis | Women undergoing breast reconstruction | To discover missed opportunities for providing information to women undergoing breast reconstruction in an effort to decrease regret and improve patient education, teaching modalities, and satisfaction | A well-conducted study based in Canada Results appear generally applicable |
| Wickwar 2018 ²²⁵ | Semi-structured face-to-face interviews with thematic analysis | Adults undergoing orbital decompression surgery for thyroid eye disease | To explore patients' expectations of orbital decompression surgery for | A study with some methodological limitations, based in the UK Results appear generally |

| Study | Design | Population | Research aim | Comments |
|-------|--------|------------|---|---|
| | | | thyroid eye disease (TED) and whether these were met | applicable, particularly to procedures with substantial cosmetic impact |

See appendix D for full evidence tables.

1 1.4.4 Qualitative evidence synthesis

Table 3: Review findings

2

| Statement of finding |
|---|
| |
| Patients and families value information on the treatment plan and process of care throughout the surgical journey, through to care after discharge. Information can help to reduce anxiety both before, during, and after the surgical procedure. |
| Patients want to know what outcomes of surgery, both positive and negative, they should expect and what a 'normal' recovery looks like. |
| Patients want information on what to expect in the period immediately after surgery, both in terms of negative and positive outcomes and what kind of care they might expect. |
| Patients and families or caregivers want more information about self-care after surgery, in order for them to manage the self-care as effectively as possible. |
| Patients and families or caregivers want information on how care would be coordinated, particularly on discharge from hospital. Specifically, people want to know who to contact in case of problems, and how to contact them. |
| Patients want information on how to cope with financial and insurance issues. |
| a seeking |
| Patients are generally satisfied with the amount and level of information, but this may vary with individual's needs and preferences. |
| Patients want information that is accurate, balanced and consistent from sources they can trust. |
| Patients value simple and direct information, often in a written format, that they can use throughout their care pathway. Members of the surgical team are also seen as key sources of information, before, during, and after surgery. |
| |
| Patients value social relationships from a range of sources, to provide practical and emotional support through the process of care. |
| Support groups, either in person or online, are seen as a valuable resource for people undergoing surgery. |
| Patients want to be asked about what home care they might need before discharge from hospital. |
| |

3 1.4.4.1 Narrative summary of review findings

4 **1.4.4.1.1 Content of information**

5 Review Finding 1: Treatment planning and process of care

Patients wanted their treatment options and the process of care throughout the surgical
journey explained to them in advance, this included care after discharge. Patients valued
learning about the different benefits and harms of different surgical approaches and how this

- 1 might impact on their future outcomes. This helped allow for informed decision making and 2 helped to reduce uncertainty during the process, including reducing pre-surgical anxiety.
- Families and caregivers also wanted information during the surgical procedure, including
 how long the operation might take, and how the surgery was proceeding.
- 5 Whilst most patients reported receiving enough information, some patients wanted more 6 information and often patients could not recall information from the pre-surgical 7 consultations after surgery.
- 8 Overall, patients and families value information on the treatment plan and process of care 9 throughout the surgical journey, through to care after discharge. Information helped to reduce 10 anxiety before, during, and after the surgical procedure.
- This review finding was based on primary research, and one systematic review addressing
 the experiences of people undergoing a range of different types of surgery and their families,
 mostly in the UK and the US. There was a judgement of high confidence in this review
 finding, as there were no significant methodological limitations or concerns.

15 Review Finding 2: Outcomes of surgery

- Patients wanted to know what would be the likely benefits and harms of surgery. If patients were aware of the likely consequences of surgery, particularly in terms of the harms and longer-term effects, they reported being more able to cope with the process of surgery and recovery. Patients also wanted to know about the impact of surgery on their quality of life, their ability to return to activities of normal daily life, how to manage pain (see evidence review N1 on management of pain), and how to identify and respond to complications.
- Patients often reported a lack of information about the early stages of recovery, both in the perioperative period and on discharge from hospital.
- 24 Overall, patients wanted to know about the outcomes, both positive and negative, to be 25 expected and what a 'normal' recovery looked like so they had realistic expectations.
- This review finding was based on primary and secondary research addressing the
 experiences of people undergoing a range of different types of surgery and their families.
 There was a judgement of high confidence in this review finding, as there were no significant
 methodological limitations or concerns.

30 Review Finding 3: Care immediately after surgery

- Patients valued information on what to expect in the period immediately after surgery, both in
 terms of negative and positive outcomes and the care they might receive. Some patients
 reported this period as being valuable in learning about self-care that would continue after
 discharge, and potentially through the longer-term.
- This review finding was based on primary research addressing the experiences of people
 undergoing colorectal surgery. There was a judgement of low confidence in this review
 finding, because of concerns about relevance and coherence.

38 Review Finding 4: Self-care after surgery

Most patients reported a lack of information being given on how to manage their care on
discharge from hospital. Patients wanted to be able to manage their own care, but faced
challenges around pain management (see evidence review N1 on management of pain),
identifying complications, using equipment, and ordering new supplies. Patients also wanted
to know about changes in diet and exercise, and when they could return to usual routines.

Overall, patients and families or caregivers did not feel they received enough information about self-care after surgery, and this prevented them from managing self-care as effectively as possible.

This review finding was based on primary and secondary research addressing the
experiences of people undergoing a range of different types of surgery and their families.
There was a judgement of high confidence in this review finding, as there were no significant
methodological limitations or concerns.

8 Review Finding 5: Coordination of care

1 2

3

- 9 Patients and families or caregivers wanted information on how care would be coordinated,
 10 particularly on discharge from hospital. Specifically, people wanted to know who to contact in
 11 case of problems, and how to contact them.
- 12 This review finding was based on primary and secondary research addressing the 13 experiences of people undergoing a range of different types of surgery and their families. 14 There was a judgement of high confidence in this review finding, as there were no significant 15 methodological limitations or concerns.

16 Review Finding 6: Financial issues

- 17 Patients wanted information on how to cope with financial and insurance issues.
- This review finding was based on secondary research addressing the experiences of people
 undergoing surgery. There was a judgement of very low confidence in this review finding,
 because of concerns about methodological limitations, relevance and adequacy.

21 1.4.4.1.2 Information provision and information seeking

22 Review Finding 1: Level of detail

- Most patients felt they received enough information from the health care team. However,
 some people felt they needed more information, whilst others felt overwhelmed by the
 amount of information they were given.
- People also reported that their needs changed over the course of treatment. Information
 needs also differ depending on the individual's preferences; for example, some patients were
 happy to follow the recommendation from the health care professional, whilst others wanted
 a more active role in the decision-making process.
- Overall, patients were satisfied with the amount and level of information, but this may vary
 with individual's needs and preferences.
- This review finding was based on primary and secondary research addressing the
 experiences of people undergoing a range of different types of surgery and their families.
 There was a judgement of high confidence in this review finding, as there were no significant
 methodological limitations or concerns.

36 **Review Finding 2: Balance and consistency**

Patients wanted information that was accurate, balanced and that reflected the true
experience of surgery and aftercare. Where information was repeated, patients valued
consistency in the information being provided, as contradictory or inconsistent information
increased uncertainty and insecurity in some patients. Patients also reported information that
they trusted. Trust was based both on the consistency of information from different sources,
and the source itself. For example, the surgeon was often seen as a trusted source of
information.

1 Overall, patients wanted information that was accurate, balanced and consistent from 2 sources they could trust.

This review finding was based on primary and secondary research addressing the
experiences of people undergoing a range of different types of surgery and their families.
There was a judgement of high confidence in this review finding, as there were no significant
methodological limitations or concerns.

7 Review Finding 3: Information sources and mode of communication

Patients used a range of different sources of information, in a range of formats. Patients, and
families or caregivers, liked to discuss information with the surgeon or other members of the
team, such as the perioperative nurse. This discussion was valued both before surgery, and
for the family or caregiver, during surgery.

- 12 To supplement or confirm the information from the surgical team, patients often used other 13 sources of information, such as written information provided by the surgical team, online 14 resources, and learning about the experiences of others who had the same operation.
- Patients emphasised the need for information to be tailored to their individual circumstances,
 in formats they were comfortable with, and for the information to be easily understood.
- Some patients found the use of visual images (both photographs and video) to be helpful,
 particularly for women undergoing breast surgery. However, some patients found visual
 images to be quite distressing.
- Overall, many patients expressed the value of simple and direct information, often in a
 written format, that they could use throughout their care pathway. Members of the surgical
 are also key sources of information, before, during, and after surgery.
- This review finding was based on primary and secondary research addressing the
 experiences of people undergoing a range of different types of surgery and their families.
 There was a judgement of high confidence in this review finding, as there were no significant
 methodological limitations or concerns.

27 **1.4.4.1.3 Support needs**

28 Review Finding 1: Social relationships

- Patients valued the support of family, friends, and community members throughout the care process. Patients also valued the support from the health care professionals involved in their care. Support involved helping with information seeking and recall, attending appointments, and particularly after discharge, help with activities of daily living. Whilst the experience of most patients was positive, some patients felt relationships could have a detrimental effect on their experience. Some patients felt that relying on other people was a burden for family and friends, but they appreciated the support regardless.
- 36 Overall, patients valued social relationships from a range of sources, to provide practical and 37 emotional support through the process of care.
- This review finding was based on primary and secondary research addressing the
 experiences of people undergoing a range of different types of surgery. There was a
 judgement of high confidence in this review finding, as there were no significant
 methodological limitations or concerns.

42 Review Finding 2: Support groups

Patients found support groups and communities of people who had similar experiences to be
 helpful in terms of support and information sharing. Support groups performed different

- functions for different patients, but most patients reported the value of being able to learn
 about and share experiences and information with people who had been in similar
 circumstances. Patients interacted with support groups in different ways (for example, in
 person or online) and this was often influenced by the individual preference of the patient.
- 5 Overall, support groups, either in person or online, were a valuable resource for people 6 undergoing surgery.
- This review finding was based on primary and secondary research addressing the
 experiences of people undergoing cancer-related surgery and knee replacement surgery.
 There was a judgement of moderate confidence in this review finding, as there were some
 concerns about relevance as most of the studies focused on people undergoing cancer related surgery.

12 Review Finding 3: Home care

- Patients wanted to be asked about what home care they might need before discharge from hospital.
- 15 This review finding was based on secondary research addressing the experiences of people 16 undergoing lung cancer surgery in Norway. There was a judgement of low confidence in this 17 review finding, because of concerns about relevance and adequacy.
- 18

1.5 Qualitative evidence summary

Table 4: Content of information – treatment planning and process of care

| Number of | | | Quality asse | essment | |
|--|--|---|--------------|--|---|
| studies contributing to the finding | Study design | Finding | Criteria | Rating | Overall assessment of confidence |
| Content of inf | formation – trea | atment planning and process of care | | | |
| 9 | A combination of interviews (8 studies) and secondary analysis (1 systematic review of qualitative research) | Patients and families value information on the treatment plan and process of care throughout the surgical journey, through to care after discharge. | Limitations | No or very minor concerns about methodological limitations ^a | HIGH |
| | | | Coherence | No or very minor concerns about coherence | |
| | | | Relevance | No or very minor concerns about relevance ^b | |
| | | | Adequacy | No concerns about adequacy ^c | |

a. Two studies with minor issues; unclear relationship between the researchers and the participants (Stutzman 2017), Moderate concerns about the process of the analysis (Wickwar 2018)

b. Five studies with specific populations or procedures; people with soft tissue sarcoma (Hewitt 2019), older adults (Malley 2018, Samuelsson 2018), younger women (Recio-Saucedo 2018) cosmetic procedures (Wickwar 2018).

c. See (2018) included some survey data.

0

nt

| able 5. Con | itent of morn | alion-outcomes of surgery | | | |
|--|--|---|--------------|--|--|
| Number of | | | Quality asse | essment | |
| studies contributing o the inding | Study design | Finding | Criteria | Rating | Overall assessmen of confidence |
| Content of inf | formation – out | comes of surgery | | | |
| 20 | A combination of interviews (13 studies), | Patients want to know what outcomes of surgery, both positive and negative, they should expect and what a 'normal' recovery looks like. | Limitations | No or very minor concerns about methodological limitations ^a | HIGH |
| focus groups (2 studies), both interviews and focus groups (1 study) and | focus groups (2 studies), both | | Coherence | No or very minor concerns about coherence | |
| | Relevance | No or very minor concerns about relevance ^b | | | |
| | study) and secondary analysis (4 systematic reviews of qualitative research) | | Adequacy | No concerns about adequacy ^c | |

Table 5: Content of information-outcomes of surgery

a. Three studies with unclear patient selection (Brands-Appledom 2019, Otutaba 2019, Rosassen 2017), Four studies with some concerns around the process of analysis (Brands-Appledom 2019, Otutaba 2019, McMullen 2019 Wickwar 2018).

b. Eight studies with specific populations or procedures; women (Brands-Appledom 2019), prostate cancer (Carrier 2018), people with soft tissue sarcoma (Hewitt 2019), people with lung cancer (Kyte 2018), post-surgical nutrition (Rattray 2019), younger women (Rosenberg 2018) Older people (Samuelsson 2018), cosmetic procedures (Wickwar 2018) .Four studies with a different care system; Høvik 2018, McMullen 2019, Otutaba 2019, Smith 2018.

c. See (2018) included some survey data.

| Number of | | | Quality assessment | | |
|--|--------------------|---|--------------------|---|--|
| studies contributing to the finding | Study design | Finding | Criteria | Rating | Overall assessmer of confidence |
| Content of inf | ormation – car | e immediately after surgery | | | |
| 2 | Interviews | Patients want information on what to expect in the period immediately after surgery, both in terms of negative and positive outcomes and what kind of care they might expect. | Limitations | No or very minor concerns about methodological limitations | LOW |
| | | | Coherence | Moderate concerns about coherence ^{a.} | |
| | | | Relevance | Moderate concerns about relevance ^{b.} | |
| | | | Adequacy | No concerns about adequacy | |
| ^{a.} Rattray (2019) |) focused on effec | tive communication of nutrition care information in post-operative period. | | | |

Table 6: Content of information – care immediately after surgery

^{b.} One study of older people (Samuelsson 2018) and Rattray (2019) focused on post- surgical nutrition.

| Table 7: | : Content of information – self-care a | after surgery |
|----------|--|---------------|
|----------|--|---------------|

| Number of | | | Quality assessment | | |
|--|--|---|--------------------|--|-----------------------------|
| studies contributing to the finding | Study | Finding | Criteria | Rating | Overall assessment of |
| Contont of inf | ormation - colf | - many | Ontenta | Rating | connachoc |
| Content of Int | ormation – sen | | | | |
| 14 | A combination of interviews (8 studies), focus groups (1 study), both | Patients and families or caregivers want more information about self-care after surgery, in order for them to manage the self-care as effectively as possible. studies), cus groups study), oth terviews nd focus oups (2 udies), nline forum nalysis (1 udy), and econdary nalysis (2 vstematic views of Jalitative search) | Limitations | No or very minor concerns about methodological limitation, ^a | HIGH |
| | | | Coherence | No or very minor concerns about coherence | |
| | and focus groups (2 studies). | | Relevance | No or very minor concerns about relevance ^b | |
| | online forum analysis (1 study), and secondary analysis (2 systematic reviews of qualitative research) | | Adequacy | No concerns about adequacy ^c | |

a. Limitations noted around the unclear description of methods and potential impact of researchers on the process (Gustavell 2017, Mcmullen 2019, Meleo-Erwin 2019, Otutaba 2019, Rosaasen 2017).

b. Specific patient populations or procedures; people with lung cancer (Baker 2018), some people did nott undergo surgery (Kyte 2018), older people (Malley 2018), Samuelsson 2018). Four studies with a different care system; McMullen (2019), Meleo- Erwin (2019), Otutaba (2019), Smith (2018).

c. See (2018) included some survey data

| Number of | | | Quality assessment | | |
|--|---|--|--------------------|--|---|
| studies contributing to the finding | Study design | Finding | Criteria | Rating | Overall assessment of confidence |
| Content of inf | ormation – coo | ordination of care | | | |
| 4 | A combination of interviews (3 studies), | A Patients and families or caregivers want information on how care would be coordinated, particularly on discharge from hospital. Studies), occus groups 1 study) poth nterviews and focus groups (1 study), and becondary analysis (1 systematic eview of qualitative esearch) | Limitations | No or very minor concerns about methodological limitations ^a | HIGH |
| | focus groups (1 study) both | | Coherence | No or very minor concerns about coherence | |
| | and focus groups (1 study), and | | Relevance | No or very minor concerns about relevance ^b | |
| | secondary analysis (1 systematic review of qualitative research) | | Adequacy | No concerns about adequacy [°] | |

a.One study with limitations around the impact of the researchers on the process (McMullen 2019).

b. One study with a population of people with lung cancer (Kyte 2018). One study focused on people in pre-operative period (Malley 2017). One study had a different care system (McMullen 2019).

c. See (2018) included some survey data.

Table 9: Content of information – financial issues

| Number of | | | Quality assessment | | | |
|--|---|---|--------------------|--|---|--|
| studies contributing to the finding | Study design | Finding | Criteria | Rating | Overall assessment of confidence | |
| Content of inf | ormation – fina | incial issues | • | | | |
| 1 | Secondary analysis (systematic review of qualitative research) | Patients want information on how to cope with financial and insurance issues. | Limitations | Serious concerns about methodological limitations ^a | VERY LOW | |
| | | | Coherence | Not assessable | | |
| | | | Relevance | Serious concerns about relevance ^b | | |
| | | | Adequacy | Moderate concerns about adequacy | | |
| ^a .Limitations around the methods, including study selection, analysis, and adequacy of data. | | | | | | |

Table 10: Information provision and information seeking – level of detail

| Number of | | | | Quality assessment | | |
|-----------|--|---|-------------------------------------|--|------|--|
| | studies studies contributing study to the Study finding design Finding Finding | Criteria | Rating | Overall assessment of confidence | | |
| | Information p | rovision and in | formation seeking – level of detail | | | |
| 6 | A combination of interviews (4 studies), both interviews and focus | Patients are generally satisfied with the amount and level of information, but this may vary with individual's needs and preferences. | Limitations | No or very minor concerns about methodological limitations ^a | HIGH | |
| | | | Coherence | No or very minor concerns about coherence | | |

| Number of | | | Quality assessment | | |
|---|---|--------|---|--|--|
| studies contributing to the Study finding design Finding | Criteria | Rating | Overall assessment of confidence | | |
| | groups (1 study), and secondary analysis (1 systematic review of qualitative research) | | Relevance | No or very minor concerns about relevance ^b | |
| | | | Adequacy | No concerns about adequacy ^c | |

a. Limitations with one study and concerns about the impact of the researchers process (McMullen 2019).

b. Three studies with specific populations or procedures; some people did not have surgery (Baker 2018), people with soft tissue sarcoma (Hewitt 2019), People with lung cancer (Kyte 2018). Three studies with a different care system; McMullen 2019

c. See (2018) included some survey data.

Table 11: Information provision and information seeking – balance and consistency

| Number of | | | Quality assessment | | |
|--|---|---|--------------------|--|---|
| studies contributing to the finding | Study design | Finding | Criteria | Rating | Overall assessment of confidence |
| Information p | rovision and in | formation seeking – balance and consistency | | | |
| 10 | A Patient combination of interviews (4 studies), focus groups (1 study), both interviews | Ation reverses), roups (), ws | Limitations | No or very minor concerns about methodological limitations ^a | HIGH |
| | | | Coherence | No or very minor concerns about coherence | |
| | | | Relevance | No or very minor | |

| Number of | Study design | Finding | Quality assessment | | |
|--|---|---------|--------------------|--|---|
| studies contributing to the finding | | | Criteria | Rating | Overall assessment of confidence |
| | and focus groups (3 studies), and secondary analysis (2 systematic reviews of qualitative research) | | | concerns about relevance ^b | |
| | | | Adequacy | No concerns about adequacy | |

^a Limitations with three studies and unclear methods on patient selection and analysis; Dibley 2018, McMullen 2019, Stutzman 2017.

^b One study with a population of men with prostate cancer (Carrier 2018), Three studies with a different care system; Høvik 2018, McMullen 2019, Smith 2018.

Table 12: Information provision and information seeking - information sources and mode of communication

| | | J | | | |
|--|--|---|---|--|------|
| Number of studiesImage: Studycontributing to theStudyfindingdesignFindingFinding | of | | Quality assessment | | |
| | Criteria | Rating | Overall assessment of confidence | | |
| Informat | tion provision and in | formation seeking - information sources and mode of communi | cation | | |
| 21 | A combination of interviews (14 studies), | Patients value simple and direct information, often in a written format, that they can use throughout their care pathway. | Limitations | No or very minor concerns about methodological limitations ^a | HIGH |
| | focus groups (2 studies), both | | Coherence | No or very minor concerns about coherence | |
| | and focus | | Relevance | No or very minor concerns about | |

| Number of | | | Quality assessment | | |
|--|---|---------|--------------------|-------------------------------|---|
| studies contributing to the finding | Study design | Finding | Criteria | Rating | Overall assessment of confidence |
| _ | groups (2 | | | relevance | |
| | studies), and secondary analysis (3 systematic reviews of qualitative research) | | Adequacy | No concerns about adequacy | |

^{a.} Six studies with unclear detail on methods used and some concerns around the process of analysis; Brands-Appledoon 2019, Dibley 2018, Otutaba 2019, Roasaasen 2017, Stutzman 2017, Wickwar 2018.

b. Eight studies with specific populations or procedures; women (Brands-Appledom 2019), post-surgical nutrition (Rattray 2019), younger women (Rosenberg 2018, Recio-Saucedo 2018), older people (Samuelsson 2018, Malley 2018), cosmetic procedures (Wickwar 2018), some people did not have surgery (Baker 2018). Three studies with a different care system; Høvik 2018,Otutaba 2019, Smith 2018.

Table 13: Support needs – social relationships

| Number of | | | | | Quality assessment | | |
|-----------|--|--|--|-------------|--|---|--|
| | studies contributing to the finding | Study design | Finding | Criteria | Rating | Overall assessment of confidence | |
| | Support need | s – social relati | onships | | | | |
| | 13 A c o (' fc (' | A combination of interviews (10 studies), focus groups (1 study), | Patients value social relationships from a range of sources, to provide practical and emotional support through the process of care. | Limitations | No or very minor concerns about methodological limitations ^a | HIGH | |
| | | | | Coherence | No or very minor concerns about | | |

| Number of | | | Quality assessment | | |
|--|---|--|--------------------|--|---|
| studies contributing to the finding | Study design | Finding | Criteria | Rating | Overall assessment of confidence |
| | and secondary analysis (2 systematic reviews of qualitative research) | ondary Iysis (2 tematic ews of Ilitative earch) | | coherence | |
| | | | Relevance | No or very minor concerns about relevance ^b | |
| | | | Adequacy | No concerns about adequacy | |

^a.Limitations with two studies and unclear methods on patient selection and analysis (Otutaba 2019, Rosaasen 2017)

^{b.} Three studies with specific populations or conditions; prostate surgery (Carrier 2018), people with soft tissue sarcoma (Hewitt 2019), younger women (Rosenberg 2018). One study with a different care system (Otutaba 2019). One study specific to experiences of people waiting for surgery (Carr 2017).

Table 14: Support needs – support groups

| Number of | | | Quality assessment | | |
|--|---|--|--------------------|--|---|
| studies contributing to the finding | Study design | Finding | Criteria | Rating | Overall assessment of confidence |
| Support need | s – support gro | oups | | | |
| 7 | A combination of interviews (3 studies), | Support groups, either in person or online, are seen as a valuable resource for people undergoing surgery. | Limitations | No or very minor concerns about methodological limitations ^a | MODERATE |
| | focus groups (2 studies), both | | Coherence | No or very minor concerns about coherence | |
| | and focus | | Relevance | Moderate concerns about relevance ^b | |
| | study) and | | Adequacy | No concerns about | |

| Number of | | Finding | Quality assessment | | |
|--|---|--|--------------------|--------------|---|
| studies contributing to the finding | Study design | | Criteria | Rating | Overall assessment of confidence |
| | secondary analysis (1 systematic review of qualitative research) | | | adequacy | |
| ^a Two studies wit | h limitations; limite | ed detail on the methods used (Dibley 2018), unclear impact of researchers o | n process (Gust | tavell 2017) | |

^b Five studies with specific populations or conditions; people with soft tissue sarcoma (Hewitt 2019), some people didn't undergo surgery (Baker 2018), prostate surgey (Carrier 2018), younger women (Rosenberg 2018), one study with a different care model (Høvik 2018).

Table 15: Support needs -co-ordination of care

| | | | | Quality assessment | | |
|--|---|-----------------|--|--|---|----------|
| | Number of studies contributing to the finding | Study design | Finding | Number of studies contributin g to the finding | Design | |
| | Support needs | s –co-ordinatio | n of care | | | |
| | 1 | Interviews | Participants described a lack of care coordination amongst disciplines within the preoperative environment. As such, care coordination often fell to the family or caregivers. | Limitations | No or very minor concerns about methodological limitations | MODERATE |
| | | | | Coherence | Not assessable | |
| | | | | Relevance | Moderate concerns about relevance ^a | |
| | | | | Adequacy | No concerns about adequacy | |

a. Population of older people (Malley 2018)

| | | | Quality assessment | | | | |
|---|-----------------|--|--|---|-----|--|--|
| Number of studies contributing to the finding | Study design | Finding | Number of studies contributin g to the finding | Design | | | |
| Support needs | s – home care | | | | | | |
| 1 | Interviews | Patients want to be asked about what home care they might need before discharge from hospital. | Limitations | No or very minor concerns about methodological limitations | LOW | | |
| | | | Coherence | Not assessable | | | |
| | | | Relevance | Moderate concerns about relevance ^a | | | |
| | | | Adequacy | Moderate concerns about adequacy | | | |
| | | | | | | | |

Table 16: Support needs – home care

a. Specific population of people with lung cancer (Kyte 2018)

1 1.5 Economic evidence

2 The committee agreed that health economic studies would not be relevant to this review3 question, and so were not sought.

4 1.6 Evidence statements

5 1.6.1 Qualitative evidence statements

- 6 Nine studies identified that patients and families value information on the treatment plan and 7 process of care throughout the surgical journey, through to care after discharge (High quality 8 evidence).
- 9 Twenty studies identified that patients want to know what outcomes of surgery, both positive 10 and negative, they should expect and what a 'normal' recovery looks like (High quality 11 evidence).
- 12 Two studies found that patients want information on what to expect in the period immediately 13 after surgery, both in terms of negative and positive outcomes and what kind of care they 14 might expect (Low quality evidence).
- Fourteen studies identified that patients and families or caregivers want more information
 about self-care after surgery, in order for them to manage the self-care as effectively as
 possible (High quality evidence).
- 18 Six studies found that patients and families or caregivers want information on how care 19 would be coordinated, particularly on discharge from hospital (High quality evidence).
- 20 One study reported that patients want information on how to cope with financial and 21 insurance issues (Very low quality evidence)
- Six studies found that patients are generally satisfied with the amount and level of
 information, but this may vary with individual's needs and preferences (High quality
 evidence).
- Ten studies reported that patients want information that is accurate, balanced and consistent from sources they can trust (High quality evidence).
- Twenty one studies identified that patients value simple and direct information, often in a written format, that they can use throughout their care pathway (High quality evidence).
- 29 Thirteen studies reported that patients value social relationships from a range of sources, to 30 provide practical and emotional support through the process of care (High quality evidence).
- 31 Seven studies reported that support groups, either in person or online, are seen as a 32 valuable resource for people undergoing surgery (Moderate quality evidence).
- 33 One study reported that patients want to be asked about what home care they might need 34 before discharge from hospital (Low quality evidence).

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1 1.7 The committee's discussion of the evidence

2 Please see recommendations 1.1.1 – 1.1.3 in the guideline.

3 1.7.1 Interpreting the evidence

4 1.7.1.1 The quality of the evidence

5 The quality of evidence included ranged from very low to high, with the majority of evidence 6 being of high quality. Evidence was downgraded for concerns about methodological 7 limitations, concerns about contextual relevance, and concerns about adequacy of data.

8 1.7.1.2 Findings identified in the evidence synthesis

- 9 The evidence showed that patients routinely described the content of information they would 10 find useful. Patients described their preferred format and style of information provision and 11 potential sources of information seeking. Patients also highlighted their support needs with 12 regards to information around surgery and recovery.
- 13 It was noted that information can help to reduce anxiety before, during, and after the surgical
 procedure for the person undergoing surgery, their family or carer. It may also assist in
 setting expectations and mitigating against complaints.
- The committee discussed the findings and felt they reflected their experience of current
 practice. The recommendations were supported by the information from the evidence review
 and committee experience.
- 19 The whole perioperative pathway needs to be patient/carer/family member centred and 20 patient information should be consistent throughout the whole process and in formats and 21 styles which are accessible to and meet the needs of patients/carers/family members.

22 **1.7.2 Cost effectiveness and resource use**

Cost effectiveness evidence was not sought as this was a qualitative review. The
 recommendations generally provide guidance regarding the content of information and
 support specific to people undergoing surgery in line with the general principles of provision
 of information already established in the existing NICE Patient Experience Guideline, and so
 were not considered likely to have a substantial resource impact over and above this.

28 1.7.3 Other factors the committee took into account

- The committee referenced the recommendations made in the patient experience guideline,
 and highlighted the importance of ease of access to information throughout the care
 pathway.
- At all stages of the perioperative process, patient information and communication must be 32 delivered clearly, openly and in a manner that enables the patient and their family to be fully 33 involved in shared decision making about their ongoing treatment pathway. The most useful 34 source of information and support for all patients would be a clinical member of the 35 perioperative team, who is aware of their specific needs and is the named and direct contact 36 37 available to respond to their questions and provide information. In smaller units the dedicated 38 point of contact may be a phone number or email address to a team of people. The committee emphasised that clear guidance needs to be given to people as to when contact is 39 appropriate, for example, post-operative wound care and not for queries regarding 40 41 scheduling. As well as ensuring that the patient is well informed and involved in decisions around their ongoing treatment, this approach would also assist in reducing stress and 42 anxiety sometimes experienced by patients as their treatment pathway progresses and 43

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different clinicians become involved. The specific needs and beliefs of individual patients must be central to all information and communication, for example, those living with dementia, learning disabilities, mental health issues, patients from minority ethnic backgrounds, patients with English as a second language, patients with sensory/dual sensory loss and those with religious beliefs.

The committee acknowledged that information provision and support is routinely included preoperatively as part of an enhanced recovery program. The committee added that improved information provision may improve compliance to a recovery program and could lead to improved recovery for the person undergoing surgery and earlier discharge from hospital.

The committee also considered that following discharge, people who have undergone
 surgery may consult primary care such as their general practitioner or ED for information,
 although a single point of contact within the surgical team may better provide support and
 information to the patient.

The committee noted that information and support needs to be tailored to the individual. The
 guideline committee were aware that for people with learning disabilities, there are
 recommendations on communicating and making information accessible in the NICE
 guideline on care and support of people growing older with learning disabilities.

The committee highlighted that treatment planning and the process of care would be
 discussed in pre-optimisation clinics but there was insufficient evidence to make a
 recommendation for practice in this area.

25 Outcomes after surgery would be part of the discussion on risk and this is supported by the 26 recommendation on risk tools.

Care immediately after surgery is supported by the recommendation on a pain managementplan.

The single point of contact would be able to provide information on self-care after surgery and to signpost to sources of support including home care and support groups.

The committee noted that the NICE guideline on patient experience in adult NHS services makes recommendations on the continuity of care and the provision of information

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Appendices

Appendix A: Review protocols

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Table 17: Review protocol: Information and support needs

| ID | Field | Content | |
|-----|--|--|--|
| 0. | PROSPERO registration number | Not registered on PROSPERO | |
| 1. | Review title | What information and support is useful for adults undergoing surgery, and their families and carers, before, during and after an operation? | |
| 2. | Review question | What information and support is useful for adults undergoing surgery, and their families and carers, before, during and after an operation? | |
| 3. | Objective | To determine what information and support people with undergoing surgery and their families value. | |
| 4. | Searches | Medline, Embase, CINAHL, PsycINFO | |
| 5. | Condition or domain being studied | Perioperative care | |
| 6. | Population | Inclusion: Adults 18 years and over having surgery, and their families and carers. | |
| | | Children and young people aged 17 years and younger | |
| | | surgery for burns, traumatic brain injury or neurosurgery | |
| 7. | Intervention/Exposure/Test | Any information, education or support specified in studies | |
| 8. | Comparator/Reference standard/Confounding factors | Not applicable | |
| 9. | Types of study to be included | Qualitative interview and focus group studies (including studies using grounded theory, phenomenology or other appropriate qualitative approaches); quantitative data from questionnaires will only be considered if insufficient qualitative evidence is identified. | |
| 10. | Other exclusion criteria | non-English language studiesstudies published before 2000 | |
| 11. | Context | Review is intended to outline the information and support that is useful for adults undergoing surgery, and their families and carers, before, during and after an operation. Review will supplement NICE's guideline on Patient experience in adult NHS services | |

| 12. | Primary outcomes (critical outcomes) | Themes will be derived from the evidence identified for this review and not pre-specified. However for information to guide the technical team, relevant themes may include: Decision making (including involvement in discharge planning) Preferred format of information provision (e.g. plain English, web-based) Content of information (including ongoing care needs) Impact of treatment on lifestyle Information sources other than healthcare professionals (e.g. support groups, online resources) Psychological support Employment rights |
|-----|---|--|
| 13. | Secondary outcomes (important outcomes) | n/a |
| 14. | Data extraction (selection and coding) | EndNote will be used for reference management, sifting, citations and bibliographies. All references identified by the searches and from other sources will be screened for inclusion. 10% of the abstracts will be reviewed by two reviewers, with any disagreements resolved by discussion or, if necessary, a third independent reviewer. The full text of potentially eligible studies will be retrieved and will be assessed in line with the criteria outlined above. No duplicate screening was deemed necessary for this question, for more information please see the separate Methods report for this guideline. Additional qualitative studies will be added to the review until themes within the analysis become saturated; i.e. studies will only be included if they contribute towards the development of existing themes or to the development of new themes. |
| 15. | Risk of bias (quality) assessment | Risk of bias will be assessed using the appropriate checklist as described in Developing NICE guidelines: the manual. Appraisal of methodological quality: The methodological quality of each study will be assessed using the CASP qualitative checklist. |
| | | by a senior research fellow. This includes checking: papers were included /excluded appropriately |
| | | a sample of the data extractions |

| | | correct m | nethods ar | e used to s | ynthesise data |
|-----|----------------------------------|--|--|--|---|
| | | • a sample | e of the ris | k of bias as | sessments |
| | | Disagreem over the ris resolved by third review | ients betw sk of bias i y discussio v author w | een the rev n particular on, with invo here neces | iew authors studies will be olvement of a sary. |
| 16. | Strategy for data synthesis | Evidence v analysis; fii and diagra Findings w CERQual s | vill be ana ndings will mmatically ill be repo standards | lysed using l be presen / where app rted accord | thematic ted narratively propriate. ing to GRADE |
| 17. | Analysis of sub-groups | n/a | | | |
| 18. | Type and method of review | | Intervent | tion | |
| | | | Diagnos | tic | |
| | | | Prognos | tic | |
| | | \boxtimes | Qualitati | ve | |
| | | | Epidemi | ologic | |
| | | | Service | Delivery | |
| | | | Other (pl | lease speci | fy) |
| 19. | Language | English | | | |
| 20. | Country | England | | | |
| 21. | Anticipated or actual start date | | | | |
| 22. | Anticipated completion date | | | | |
| 23. | Stage of review at time of this | Review sta | ige | Started | Completed |
| | | Preliminary searches | / | | |
| | | Piloting of selection p | the study rocess | | |
| | | Formal scr of search r against elig criteria | eening esults gibility | | |
| | | Data extra | ction | | |
| | | Risk of bias (quality) assessmer | s nt | | |
| | | Data analy | sis | | |
| 24. | Named contact | 5a. Named | l contact | | |
| | | National G | uideline C | entre | |
| | | 5b Named | contact e- | mail | |

 $\ensuremath{\textcircled{\sc online \sc on$

| | | perioperativecare@nice.org.uk |
|-----|----------------------------|---|
| | | 5e Organisational affiliation of the review National Institute for Health and Care Excellence (NICE) and the National Guideline Centre |
| 25. | Review team members | From the National Guideline Centre: |
| | | Ms Kate Ashmore |
| | | Ms Kate Kellev |
| | | Ms Sharon Swaine |
| | | Mr Ben Mayer |
| | | Ms Maria Smyth |
| | | Mr Vimal Bedia |
| | | Mr Audrius Stonkus |
| | | Ma Madelaina Zucker |
| | | Ma Margaret Constanti |
| | | Ms Appabelle Davis |
| | | Ms Lina Gulbana |
| 26. | Funding sources/sponsor | This systematic review is being completed by |
| | | the National Guideline Centre which receives funding from NICE. |
| 27. | Conflicts of interest | All guideline committee members and anyone who has direct input into NICE guidelines (including the evidence review team and expert witnesses) must declare any potential conflicts of interest in line with NICE's code of practice for declaring and dealing with conflicts of interest. Any relevant interests, or changes to interests, will also be declared publicly at the start of each guideline committee meeting. Before each meeting, any potential conflicts of interest will be considered by the guideline committee Chair and a senior member of the development team. Any decisions to exclude a person from all or part of a meeting will be documented. Any changes to a member's declaration of interests will be recorded in the minutes of the meeting. Declarations of interests will be published with the final guideline. |
| 28. | Collaborators | Development of this systematic review will be overseen by an advisory committee who will use the review to inform the development of evidence-based recommendations in line with section 3 of <u>Developing NICE guidelines: the</u> <u>manual</u> . Members of the guideline committee are available on the NICE website: [NICE guideline webpage]. |
| 29. | Other registration details | n/a |

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| 30. | Reference/URL for published protocol | [Give the oprotocol, it | citation and link for the published f there is one.] |
|-----|--|---|---|
| 31. | Dissemination plans | NICE may use a range of different methods to raise awareness of the guideline. These include standard approaches such as: | |
| | | notifying publication | registered stakeholders of ion |
| | | publicisi newslett | ng the guideline through NICE's ter and alerts |
| | | issuing a appropri NICE we and pub | a press release or briefing as iate, posting news articles on the ebsite, using social media channels, licising the guideline within NICE. |
| 32. | Keywords | Periopera support | tive care, surgery, information, |
| 33. | Details of existing review of same topic by same authors | n/a | |
| 34. | Current review status | | Ongoing |
| | | \boxtimes | Completed but not published |
| | | | Completed and published |
| | | | Completed, published and being updated |
| | | | Discontinued |
| 35 | Additional information | n/a | |
| 36. | Details of final publication | www.nice. | .org.uk |

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Appendix B: Literature search strategies

The literature searches for this review are detailed below and complied with the methodology outlined in Developing NICE guidelines: the manual 2014, updated 2018.¹⁵³

4 For more detailed information, please see the Methodology Review.

5 B.1 Clinical search literature search strategy

Searches were constructed using a PICO framework where population (P) terms were combined with Intervention (I) and in some cases Comparison (C) terms. Outcomes (O) are rarely used in search strategies for interventions as these concepts may not be well described in title, abstract or indexes and therefore difficult to retrieve. Search filters were applied to the search where appropriate.

11 Table 18: Database date parameters and filters used

| Database | Dates searched | Search filter used |
|--|---------------------|-----------------------------------|
| Medline (OVID) | 2000 – 30 May 2019 | Exclusions Qualitative studies |
| Embase (OVID) | 2000 – 30 May 2019 | Exclusions Qualitative studies |
| CINAHL, Current Nursing and Allied Health Literature (EBSCO) | 2000 – 30 May 2019 | Exclusions Qualitative studies |
| PsycINFO (ProQuest) | 2000 – 1 March 2019 | Exclusions Qualitative studies |

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Medline (Ovid) search terms

| | 1 |
|-----|---|
| 1. | exp Perioperative Care/ or exp Perioperative Period/ or Preoperative Care/ |
| 2. | ((pre-operative* or preoperative* or preop* or pre-op* or pre-surg* or presurg*) adj3 (care* or caring or treat* or nurs* or monitor* or recover* or medicine)).ti,ab. |
| 3. | ((care* or caring or treat* or nurs* or recover* or monitor*) adj3 (before or prior or advance or during or after) adj3 (surg* or operat* or anaesthes* or anesthes*)).ti,ab. |
| 4. | ((perioperative* or peri-operative* or intraoperative* or intra-operative* or intrasurg* or intra-surg* or peroperat* or per-operat*) adj3 (care* or caring or treat* or nurs* or monitor* or recover* or medicine)).ti,ab. |
| 5. | ((care* or caring or treat* or nurs* or recover* or monitor*) adj3 during adj3 (surg* or operat* or anaesthes* or anesthes*)).ti,ab. |
| 6. | ((postoperative* or postop* or post-op* or post-surg* or postsurg*) adj3 (care* or caring or treat* or nurs* or monitor* or recover* or medicine)).ti,ab. |
| 7. | ((care* or caring or treat* or nurs* or recover* or monitor*) adj3 after adj3 (surg* or operat* or anaesthes* or anesthes*)).ti,ab. |
| 8. | or/1-7 |
| 9. | limit 8 to English language |
| 10. | (exp child/ or exp pediatrics/ or exp infant/) not (exp adolescent/ or exp adult/ or exp middle age/ or exp aged/) |
| 11. | 9 not 10 |
| 12. | letter/ |
| 13. | editorial/ |
| 14. | news/ |
| 15. | exp historical article/ |

| 16. | exp Perioperative Care/ or exp Perioperative Period/ or Preoperative Care/ |
|-----|--|
| 17. | ((pre-operative* or preoperative* or preop* or pre-op* or pre-surg* or presurg*) adj3 (care* or caring or treat* or nurs* or monitor* or recover* or medicine)).ti,ab. |
| 18. | ((care* or caring or treat* or nurs* or recover* or monitor*) adj3 (before or prior or advance or during or after) adj3 (surg* or operat* or anaesthes* or anesthes*)).ti,ab. |
| 19. | ((perioperative* or peri-operative* or intraoperative* or intra-operative* or intrasurg* or intra-surg* or peroperat* or per-operat*) adj3 (care* or caring or treat* or nurs* or monitor* or recover* or medicine)).ti,ab. |
| 20. | ((care* or caring or treat* or nurs* or recover* or monitor*) adj3 during adj3 (surg* or operat* or anaesthes* or anesthes*)).ti,ab. |
| 21. | ((postoperative* or postop* or post-op* or post-surg* or postsurg*) adj3 (care* or caring or treat* or nurs* or monitor* or recover* or medicine)).ti,ab. |
| 22. | ((care* or caring or treat* or nurs* or recover* or monitor*) adj3 after adj3 (surg* or operat* or anaesthes* or anesthes*)).ti,ab. |
| 23. | or/1-7 |
| 24. | limit 8 to English language |
| 25. | (exp child/ or exp pediatrics/ or exp infant/) not (exp adolescent/ or exp adult/ or exp middle age/ or exp aged/) |
| 26. | 9 not 10 |
| 27. | letter/ |
| 28. | editorial/ |
| 29. | news/ |
| 30. | exp historical article/ |
| 31. | Anecdotes as Topic/ |
| 32. | comment/ |
| 33. | case report/ |
| 34. | (letter or comment*).ti. |
| 35. | or/12-19 |
| 36. | randomized controlled trial/ or random*.ti,ab. |
| 37. | 20 not 21 |
| 38. | animals/ not humans/ |
| 39. | exp Animals, Laboratory/ |
| 40. | exp Animal Experimentation/ |
| 41. | exp Models, Animal/ |
| 42. | exp Rodentia/ |
| 43. | (rat or rats or mouse or mice).ti. |
| 44. | or/22-28 |
| 45. | 11 not 29 |
| 46. | Patients/ or Inpatients/ or Outpatients/ |
| 47. | Caregivers/ or exp Family/ or exp Parents/ or exp Legal-Guardians/ |
| 48. | (patient* or carer* or caregiver* or famil* or parent* or father* or mother* or spouse* or wife or wives or husband* or next of kin or significant other* or partner* or guardian* or inpatient* or outpatient* or in patient* or out patient*).ti,ab. |
| 49. | or/31-33 |
| 50. | exp Information-Services/ or Publications/ or Books/ or Pamphlets/ or Counseling/ or Directive-Counseling/ or Decision Making/ |
| 51. | 34 and 35 |

| 52. | Patient Education as Topic/ |
|----------------------------|--|
| 53. | patient acceptance of health care/ |
| 54. | patient satisfaction/ |
| 55. | patient education handout/ |
| 56. | Consumer Health Information/ |
| 57. | Patient participation/ |
| 58. | Physician-patient relations/ or Professional-Patient Relations/ |
| 59. | ((patient* or carer* or caregiver* or famil* or parent* or father* or mother* or spouse* or wife or wives or husband* or next of kin or significant other* or partner* or guardian* or inpatient* or outpatient* or in patient* or out patient*) adj3 (inform* or educat* or support* or advice* or advise*)).ti,ab. |
| 60. | (information* adj3 (service* or need* or requirement* or support* or seek* or access* or disseminat* or barrier*)).ti,ab. |
| 61. | ((patient* or carer* or caregiver* or famil* or parent* or father* or mother* or spouse* or wife or wives or husband* or next of kin or significant other* or partner* or guardian* or inpatient* or outpatient* or in patient* or out patient*) adj3 (service* or information* or material* or virtual*or app or apps or blog* or booklet* or brochure* or dvd* or elearn* or e-learn* or email* or e-mail* or e mail* or facebook or facetime or face time or forum* or handout* or hand-out* or hand out* or helpline* or hotline* or internet* or ipad* or iphone* or leaflet* or online or magazine* or mobile phone* or newsletter* or pamphlet* or palm pilot* or personal digital assistant* or pocket pc* or podcast* or poster? or skype* or smartphone* or smart phone* or social media or social network* or sms or text messag* or twitter or tweet* or video* or web* or wiki* or youtube* or manual* or publication* or literature or computer* or interactive or telephone* or phone*)).ti,ab. |
| 62. | ((educat* or learn* or support*) adj3 (service* or information* or material* or virtual* or app or apps or blog* or booklet* or brochure* or dvd* or elearn* or e-learn* or email* or e-mail* or e mail* or facebook or facetime or face time or forum* or handout* or hand- out* or hand out* or helpline* or hotline* or internet* or ipad* or iphone* or leaflet* or online or magazine* or mobile phone* or newsletter* or pamphlet* or palm pilot* or personal digital assistant* or pocket pc* or podcast* or poster? or skype* or smartphone* or smart phone* or social media or social network* or sms or text messag* or twitter or tweet* or video* or web* or wiki* or youtube* or manual* or publication* or literature or computer* or interactive or telephone* or phone*)).ti,ab. |
| 63. | ((decision* or decid*) adj3 (support* or aid* or tool*)).ti,ab. |
| 64. | ((decision making or choice) adj (behavior* or behaviour*)).ti,ab. |
| 65. | (informed adj (choice* or decision*)).ti,ab. |
| 66. | or/36-50 |
| 67. | Qualitative research/ or Narration/ or exp Interviews as Topic/ or exp Questionnaires/ or Health care surveys/ |
| 68. | (qualitative or interview* or focus group* or theme* or questionnaire* or survey*).ti,ab. |
| 69. | (metasynthes* or meta-synthes* or metasummar* or meta-summar* or metastud* or meta-stud* or metathem* or meta-them* or ethno* or emic or etic or phenomenolog* or grounded theory or constant compar* or (thematic* adj3 analys*) or theoretical sampl* or purposive sampl* or hermeneutic* or heidegger* or husserl* or colaizzi* or van kaam* or van manen* or giorgi* or glaser* or strauss* or ricoeur* or spiegelberg* or merleau*).ti,ab. |
| 70. | or/52-54 |
| 71. | 30 and 51 and 55 |
| Embase (Ovid) search terms | |

| 1. *preoperative period/ or *preoperative care/ or *peroperative period/ or *postoperative period/ or *postoperative care/ or *p *surgical patient/ | e care/ or *intraoperative *perioperative nursing/ or |
|---|--|
| 2. ((pre-operative* or preoperative* or preop* or pre-op* or pre- | e-surg* or presurg*) adj3 |

| | (care [^] or caring or treat [^] or nurs [^] or monitor [^] or recover [^] or medicine)).ti,ab. |
|-----|---|
| 3. | ((care* or caring or treat* or nurs* or recover* or monitor*) adj3 (before or prior or advance or during or after) adj3 (surg* or operat* or anaesthes* or anesthes*)).ti,ab. |
| 4. | ((perioperative* or peri-operative* or intraoperative* or intra-operative* or intrasurg* or intra-surg* or peroperat* or per-operat*) adj3 (care* or caring or treat* or nurs* or monitor* or recover* or medicine)).ti,ab. |
| 5. | ((care* or caring or treat* or nurs* or recover* or monitor*) adj3 during adj3 (surg* or operat* or anaesthes* or anesthes*)).ti,ab. |
| 6. | ((postoperative* or postop* or post-op* or post-surg* or postsurg*) adj3 (care* or caring or treat* or nurs* or monitor* or recover* or medicine)).ti,ab. |
| 7. | ((care* or caring or treat* or nurs* or recover* or monitor*) adj3 after adj3 (surg* or operat* or anaesthes* or anesthes*)).ti,ab. |
| 8. | or/1-7 |
| 9. | (exp child/ or exp pediatrics/) not (exp adult/ or exp adolescent/) |
| 10. | 8 not 9 |
| 11. | limit 10 to English language |
| 12. | letter.pt. or letter/ |
| 13. | note.pt. |
| 14. | editorial.pt. |
| 15. | case report/ or case study/ |
| 16. | (letter or comment*).ti. |
| 17. | or/12-16 |
| 18. | randomized controlled trial/ or random*.ti,ab. |
| 19. | 17 not 18 |
| 20. | animal/ not human/ |
| 21. | nonhuman/ |
| 22. | exp Animal Experiment/ |
| 23. | exp Experimental Animal/ |
| 24. | animal model/ |
| 25. | exp Rodent/ |
| 26. | (rat or rats or mouse or mice).ti. |
| 27. | or/19-26 |
| 28. | 11 not 27 |
| 29. | *patient/ or *hospital patient/ or *outpatient/ |
| 30. | *caregiver/ or *family/ or *adult child/ or *family relation/ or *grandparent/ or *parent/ or *father/ or *mother/ or *legal guardian/ |
| 31. | (patient* or carer* or caregiver* or famil* or parent* or father* or mother* or spouse* or wife or wives or husband* or next of kin or significant other* or partner* or guardian* or inpatient* or outpatient*).ti,ab. |
| 32. | or/29-31 |
| 33. | *information service/ or *documentation/ or *publication/ or *book/ or *counseling/ or *directive counseling/ |
| 34. | 32 and 33 |
| 35. | *patient education/ |
| 36. | *consumer health information/ |
| 37. | *patient satisfaction/ or *patient attitude/ |
| 38. | *patient participation/ |
| 39. | *patient information/ |

| 40. | *doctor patient relation/ |
|-----|--|
| 41. | ((patient* or carer* or caregiver* or famil* or parent* or father* or mother* or spouse* or wife or wives or husband* or next of kin or significant other* or partner* or guardian* or inpatient* or outpatient* or in patient* or out patient*) adj3 (inform* or educat* or support* or advice* or advise*)).ti,ab. |
| 42. | ((patient* or carer* or caregiver* or famil* or parent* or father* or mother* or spouse* or wife or wives or husband* or next of kin or significant other* or partner* or guardian* or inpatient* or outpatient* or in patient* or out patient*) adj3 (service* or information* or material* or virtual*or app or apps or blog* or booklet* or brochure* or dvd* or elearn* or e-learn* or email* or e-mail* or e mail* or facebook or facetime or face time or forum* or handout* or hand-out* or hand out* or helpline* or hotline* or internet* or ipad* or iphone* or leaflet* or online or magazine* or mobile phone* or newsletter* or pamphlet* or palm pilot* or personal digital assistant* or pocket pc* or podcast* or poster? or skype* or smartphone* or smart phone* or web* or wiki* or youtube* or manual* or publication* or literature or computer* or interactive or telephone* or phone*)).ti,ab. |
| 43. | (information* adj3 (service* or need* or requirement* or support* or seek* or access* or disseminat* or barrier*)).ti,ab. |
| 44. | ((educat* or learn* or support*) adj3 (service* or information* or material* or virtual* or app or apps or blog* or booklet* or brochure* or dvd* or elearn* or e-learn* or email* or e-mail* or e mail* or facebook or facetime or face time or forum* or handout* or hand- out* or hand out* or helpline* or hotline* or internet* or ipad* or iphone* or leaflet* or online or magazine* or mobile phone* or newsletter* or pamphlet* or palm pilot* or personal digital assistant* or pocket pc* or podcast* or poster? or skype* or smartphone* or smart phone* or social media or social network* or sms or text messag* or twitter or tweet* or video* or web* or wiki* or youtube* or manual* or publication* or literature or computer* or interactive or telephone* or phone*)).ti,ab. |
| 45. | ((decision* or decid*) adj3 (support* or aid* or tool*)).ti,ab. |
| 46. | ((decision making or choice) adj (behavior* or behaviour*)).ti,ab. |
| 47. | (informed adj (choice* or decision*)).ti,ab. |
| 48. | or/34-47 |
| 49. | health survey/ or exp questionnaire/ or exp interview/ or qualitative research/ or narrative/ |
| 50. | (qualitative or interview* or focus group* or theme* or questionnaire* or survey*).ti,ab. |
| 51. | (metasynthes* or meta-synthes* or metasummar* or meta-summar* or metastud* or meta-stud* or metathem* or meta-them* or ethno* or emic or etic or phenomenolog* or grounded theory or constant compar* or (thematic* adj3 analys*) or theoretical sampl* or purposive sampl* or hermeneutic* or heidegger* or husserl* or colaizzi* or van kaam* or van manen* or giorgi* or glaser* or strauss* or ricoeur* or spiegelberg* or merleau*).ti,ab. |
| 52. | or/49-51 |
| 53. | 28 and 48 and 52 |

CINAHL, Current Nursing and Allied Health Literature (EBSCO)

| #1. | (MH "Preoperative Care+") |
|-----|---|
| #2. | (MH "Perioperative Care+") |
| #3. | (MH "Preoperative Period+") |
| #4. | (MH "Perioperative Nursing") |
| #5. | (MH "Postoperative Care+") |
| #6. | (MH "Intraoperative Care") |
| #7. | (MM "Intraoperative Period") |
| #8. | (MM "Postoperative Period") |
| #9. | TI (((care* or caring or treat* or nurs* or recover* or monitor*) N3 (before or prior or advance or during or after) N3 (surg* or operat* or anaesthes* or anesthes*))) OR AB (|

| | ((care* or caring or treat* or nurs* or recover* or monitor*) N3 (before or prior or advance or during or after) N3 (surg* or operat* or anaesthes* or anesthes*))) |
|------|---|
| #10. | TI (((pre-operative* or preoperative* or preop* or pre-op* or pre-surg* or presurg*) N3 (care* or caring or treat* or nurs* or monitor* or recover* or medicine))) OR AB (((pre-operative* or preoperative* or preop* or pre-op* or pre-surg* or presurg*) N3 (care* or caring or treat* or nurs* or monitor* or recover* or medicine))) |
| #11. | TI (((care* or caring or treat* or nurs* or recover* or monitor*) n3 during n3 (surg* or operat* or anaesthes* or anesthes*))) OR AB (((care* or caring or treat* or nurs* or recover* or monitor*) n3 during n3 (surg* or operat* or anaesthes* or anesthes*))) |
| #12. | TI (((intraoperative* or intra-operative* or intrasurg* or intra-surg* or peroperat* or per- operat*) n3 (care* or caring or treat* or nurs* or monitor* or recover* or medicine))) OR AB (((intraoperative* or intra-operative* or intrasurg* or intra-surg* or peroperat* or per-operat*) n3 (care* or caring or treat* or nurs* or monitor* or recover* or medicine))) |
| #13. | TI (((postoperative* or postop* or post-op* or post-surg* or postsurg*) n3 (care* or caring or treat* or nurs* or monitor* or recover* or medicine))) OR AB (((postoperative* or postop* or post-op* or post-surg* or postsurg*) n3 (care* or caring or treat* or nurs* or monitor* or recover* or medicine))) |
| #14. | TI (((care* or caring or treat* or nurs* or recover* or monitor*) n3 after n3 (surg* or operat* or anaesthes* or anesthes*))) OR AB (((care* or caring or treat* or nurs* or recover* or monitor*) n3 after n3 (surg* or operat* or anaesthes* or anesthes*))) |
| #15. | S1 OR S2 OR S3 OR S4 OR S5 OR S6 OR S7 OR S8 OR S9 OR S10 OR S11 OR S12 OR S13 OR S14 |
| #16. | PT anecdote or PT audiovisual or PT bibliography or PT biography or PT book or PT book review or PT brief item or PT cartoon or PT commentary or PT computer program or PT editorial or PT games or PT glossary or PT historical material or PT interview or PT letter or PT listservs or PT masters thesis or PT obituary or PT pamphlet or PT pamphlet chapter or PT pictorial or PT poetry or PT proceedings or PT "questions and answers" or PT response or PT software or PT teaching materials or PT website |
| #17. | S15 not S16 |
| #18. | ((MH "Child+") OR (MH "Pediatrics+") OR (MH "Infant+")) NOT ((MH "Adult+") OR (MH "Adolescence+") OR (MH "Middle Age") OR (MH "Aged+")) |
| #19. | S17 NOT S18 |
| #20. | (MH "Patients") |
| #21. | (MH "Inpatients") |
| #22. | (MH "Outpatients") |
| #23. | (MH "Caregivers") |
| #24. | (MH "Family+") |
| #25. | (MH "Parents+") |
| #26. | (MH "Guardianship, Legal+") |
| #27. | TI ((patient* or carer* or caregiver* or famil* or parent* or father* or mother* or spouse* or wife or wives or husband* or next of kin or significant other* or partner* or guardian* or inpatient* or outpatient* or in patient* or out patient*)) OR AB ((patient* or carer* or caregiver* or famil* or parent* or father* or mother* or spouse* or wife or wives or husband* or next of kin or significant other* or partner* or guardian* or inpatient* or outpatient* or in patient* or out patient*)) |
| #28. | S20 OR S21 OR S22 OR S23 OR S24 OR S25 OR S26 OR S27 |
| #29. | (MH "Information Services+") OR (MH "Books") OR (MH "Counseling") OR (MH "Pamphlets") OR (MH "Decision Making") |
| #30. | S28 AND S29 |
| #31. | (MH "Patient Education+") OR (MH "Patient Satisfaction") OR (MH "Patient Preference") OR (MH "Consumer Health Information+") OR (MH "Consumer Participation") OR (MH "Physician-Patient Relations") OR (MH "Professional-Patient Relations") |
| #32. | TI (((patient* or carer* or caregiver* or famil* or parent* or father* or mother* or |

| | spouse* or wife or wives or husband* or next of kin or significant other* or partner* or guardian* or inpatient* or outpatient* or in patient* or out patient*) N3 (inform* or educat* or support* or advice* or advise*))) OR AB (((patient* or carer* or caregiver* or famil* or parent* or father* or mother* or spouse* or wife or wives or husband* or next of kin or significant other* or partner* or guardian* or inpatient* or outpatient* or in patient* or out patient*) N3 (inform* or educat* or support* or advice* or advise*))) |
|------|--|
| #33. | TI ((information* N3 (service* or need* or requirement* or support* or seek* or access* or disseminat* or barrier*))) OR AB ((information* N3 (service* or need* or requirement* or support* or seek* or access* or disseminat* or barrier*))) |
| #34. | TI (((patient* or carer* or caregiver* or famil* or parent* or father* or mother* or spouse* or wife or wives or husband* or next of kin or significant other* or partner* or guardian* or inpatient* or outpatient* or in patient* or out patient*) N3 (service* or information* or material* or virtual* or app or apps or blog* or booklet* or brochure* or dvd* or elearn* or e-learn* or email* or e-mail* or e mail* or facebook or facetime or face time or forum* or handout* or hand-out* or hand out* or helpline* or hotline* or internet* or pamphlet* or palm pilot* or personal digital assistant* or pocket pc* or podcast* or poster? or skype* or smartphone* or caregiver* or video* or web* or wiki* or youtube* or manual* or publication* or literature or computer* or famil* or parent* or inpatient* or oguardian* or inpatient* or on the says or twitter or tweet* or video* or web* or wiki* or youtube* or manual* or publication* or literature or computer* or famil* or parent* or father* or mother* or spouse* or wife or wives or husband* or next of kin or significant other* or partner* or guardian* or inpatient* or outpatient* or outpatient* or inpatient* or on ther* or mother* or spouse* or wife or wives or husband* or next of kin or significant other* or partner* or guardian* or inpatient* or outpatient* or inpatient* or ondv* or elearn* or enail* or e-mail* or e-mail* or e-mail* or e-mail* or e-mail* or e-mail* or partne* or mother* or spouse* or wife or wives or husband* or next of kin or significant other* or partner* or guardian* or inpatient* or outpatient* or inpatient* or on dvd* or elearn* or e-learn* or email* or e-mail* or interactive or information* or material* or virtual* or app or apps or blog* or booklet* or brochure* or dvd* or elearn* or e-learn* or outpatient* or inpatient* or information* or material* or virtual* or app or apps or blog* or booklet* or brochure* or dvd* or elearn* or e-learn* or email* or e-mail* or e-ma |
| #35. | TI (((educat* or learn* or support*) N3 (service* or information* or material* or virtual* or app or apps or blog* or booklet* or brochure* or dvd* or elearn* or e-learn* or email* or e-mail* or facebook or facetime or face time or forum* or handout* or hand-out* or helpline* or hotline* or internet* or ipad* or iphone* or leaflet* or online or magazine* or mobile phone* or newsletter* or poster? or skype* or smartphone* or smart phone* or social media or social network* or smos or text messag* or twitter or tweet* or video* or web* or wiki* or youtube* or manual* or publication* or literature or computer* or internet* or ipad* or elearn* or email* or app or apps or blog* or booklet* or brochure* or dvd* or elearn* or e-learn* or email* or e-mail* or e-mail* or support*) N3 (service* or information* or material* or virtual* or app or apps or blog* or booklet* or brochure* or dvd* or elearn* or e-learn* or email* or e-mail* or e-mail* or support*) N3 (service* or information* or material* or virtual* or app or apps or blog* or booklet* or brochure* or dvd* or elearn* or e-learn* or email* or e-mail* or e-mail* or support*) N3 (service* or information* or material* or virtual* or app or apps or blog* or booklet* or brochure* or dvd* or elearn* or e-learn* or email* or e-mail* or e-mail* or facebook or facetime or face time or forum* or handout* or hand-out* or hand-out* or helpline* or notline* or internet* or ipad* or iphone* or leaflet* or online or magazine* or mobile phone* or newsletter* or pamphlet* or palm pilot* or personal digital assistant* or pocket pc* or podcast* or poster? or skype* or smartphone* or smart phone* or social media or social network* or sms or text messag* or twitter or tweet* or video* or web* or wiki* or youtube* or manual* or public* or personal digital assistant* or pocket pc* or podcast* or poster? or skype* or smartphone* or smart phone* or social media or social network* or sms or text messag* or twitter or tweet* or video* or web* or wiki* or youtube* or manual* or public* or |
| #36. | TI (((decision* or decid*) N3 (support* or aid* or tool*))) OR AB (((decision* or decid*) N3 (support* or aid* or tool*))) |
| #37. | TI (((decision making or choice) N1 (behavior* or behaviour*))) OR AB (((decision making or choice) N1 (behavior* or behaviour*))) |
| #38. | TI ((informed N1 (choice* or decision*))) OR AB ((informed N1 (choice* or decision*)) |
| #39. | , S30 OR S31 OR S32 OR S33 OR S34 OR S35 OR S36 OR S37 OR S38 |
| #40. | (MH "Qualitative Studies+") |

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| #41. | (MH "Qualitative Validity+") |
|------|---|
| #42. | (MH "Interviews+") OR (MH "Focus Groups") OR (MH "Surveys") OR (MH "Questionnaires+") |
| #43. | (qualitative or interview* or focus group* or theme* or questionnaire* or survey*) |
| #44. | (metasynthes* or meta-synthes* or metasummar* or meta-summar* or metastud* or meta-stud* or metathem* or meta-them* or ethno* or emic or etic or phenomenolog* or grounded theory or constant compar* or (thematic* adj3 analys*) or theoretical sampl* or purposive sampl* or hermeneutic* or heidegger* or husserl* or colaizzi* or van kaam* or van manen* or giorgi* or glaser* or strauss* or ricoeur* or spiegelberg* or merleau*) |
| #45. | S40 OR S41 OR S42 OR S43 OR S44 |
| #46. | S19 AND S39 AND S45 |

PsycINFO (ProQuest)

| 1. | (((MAINSUBJECT.EXACT("Patients") OR MAINSUBJECT.EXACT("Outpatients") OR MAINSUBJECT.EXACT.EXPLODE("Parents") OR |
|----|---|
| | MAINSUBJECT.EXACT("Caregivers") OR |
| | MAINSUBJECT.EXACT.EXPLODE("Family") OR |
| | MAINSUBJECT.EXACT("Guardianship")) OR ti,ab(patient* OR carer* OR caregiver* |
| | OR famil* OR parent* OR father* OR mother* OR spouse* OR wife OR wives OR |
| | husband* OR next of kin OR significant other* OR partner* OR guardian* OR inpatient* |
| | OR outpatient* OR in patient* OR out patient*)) AND (mainsubject.Exact("preoperative |
| | care" OR "intraoperative care" OR "preoperative period" OR "perioperative care" OR |
| | "postoperative care" OR "postoperative period" OR "intraoperative period" OR |
| | penoperative penod OR penoperative nursing) OR in ab (pre-operative OR |
| | preoperative OR preop OR pre-op OR pre-surg OR presurg OR perioperative OR |
| | OR neroperative OR initial operative OR initial operative OR initial surger of the surger of the surger operative OR initial surger operative |
| | surg* OR postsurg*))) AND (MAINSUBJECT.EXACT("Client Participation") OR |
| | MAINSUBJECT.EXACT("Client Education") OR (MAINSUBJECT.EXACT("Client |
| | Attitudes") OR MAINSUBJECT.EXACT("Client Satisfaction")) OR ab((information OR |
| | educat* OR learn* OR support* OR decision* OR decide* OR choice* OR satisfaction* |
| | OR participat*)) OR ti((information OR educat* OR learn* OR support* OR decision* |
| | OR decide* OR choice* OR satisfaction* OR participat*))) AND |
| | ((su.exact.explode("qualitative research") OR su.exact("narratives") OR |
| | su.exact.explode("questionnaires") OR su.exact.explode("interviews") OR |
| | su.exact.explode("health care services") OR ti,ab(qualitative OR interview" OR focus |
| | group OR ineme OR questionnaire OR survey) OR ii,ab(metasynthes OR meta- |
| | metathem* OR meta-them* OR ethno* OR emic OR etic OR phenomenolog* OR |
| | grounded theory OR constant compart OR (thematic * NFAR/3 analys*) OR theoretical- |
| | sampl* OR purposive-sampl* OR hermeneutic* OR heidegger* OR husserl* OR |
| | colaizzi* OR van kaam* OR van manen* OR giorgi* OR glaser* OR strauss* OR |
| | ricoeur* OR spiegelberg* OR merleau*))) NOT (su.exact.explode("rodents") OR |
| | su.exact.explode("mice") OR (su.exact("animals") NOT (su.exact("human males") OR |
| | su.exact("human females"))) OR ti(rat OR rats OR mouse OR mice))Limits applied |

1

Appendix C: Qualitative evidence selection





Appendix D: Qualitative evidence tables

| Study | Baker 2018 ²⁰ |
|----------------------|---|
| Aim | To explore patient information preferences prior to undergoing surgery for ulcerative colitis |
| Population | Patients who had undergone surgery for ulcerative colitis and patients who had considered but not undergone surgery n=16; Age range, 22 to 74 years (median 42 years); Sex, 9 female, 7 male; Considered surgery, 8: Underwent surgery, 8; Median time since first operation. 4 years 1 month (range, 10 months, 18 years 6 months): Accessed some form of peer support, 10 |
| Setting | General teaching hospital |
| Study design | Qualitative interviews |
| Methods and analysis | In-depth semi-structured face-to-face interviews with inductive thematic analysis |
| Findings | Content of information – self-care after surgery |
| | Patients wanted better information about long-term recovery and sources of long-term support to ensure patients undergoing surgery know who to contact for support or advice should they require it |
| | Information provision and information seeking – information sources and mode of communication |
| | Patients commonly reported the difficulty of assimilating the volume of information during consultations. |
| | In particular, there was mention of the length of clinic appointments, with 10–20 minutes being perceived as inadequate for a number of patients. Statistics related to risk of side effects were viewed variably by patients—with some patients reporting numerical quantification of risk as unhelpful, whereas some felt it aided decision making. |
| | Using a diagram in practice to help explain operations to patients was common, and all patients agreed that visual presentation of the operation helped in their understanding. It was also fairly common for patients to see stoma nurses to be provided with "practice packs." |
| | Patients reported receiving a large number of leaflets which were often described as containing unhelpful information. Written information focused on operative details, and information about postoperative practicalities were described as "vague" and "generic," particularly diet advice. |
| | Despite a lack of information about the long-term effects of surgery on daily life, patients felt that surgeons were not best placed to give advice about daily issues encountered post-surgery. |
| | The stoma and IBD nurses were commonly cited as preferred sources of practical information. |
| | Many people used the internet as a key source of information, but they preferred peer support to be by telephone or face-to-face rather than using online forums. |

| Study | Baker 2018 ²⁰ |
|---|---|
| | There was concern about the content of leaflets from the younger participants, with leaflets not providing information on the long-term impacts of surgery. |
| | Information provision and information seeking - level of detail |
| | Patients had differing views about the depth of information that should be provided about operations and their complications. Some patients reported not receiving detailed surgical information, and it was therefore retrieved from other sources such as the internet. Other patients discussed not wanting detailed surgical information for fear of this putting them off surgery. |
| | Support needs – support groups |
| | Patients found talking to another person who had undergone the same procedure to be very helpful in understanding day-to-day life with a stoma as it gave them a "real-life" perspective. Most patients reported they would welcome information on practical issues from someone who had undergone the same procedure. |
| | Other themes were identified in the study but they were not directly related to information or support needs, so are not reported here. |
| Limitations and applicability of evidence | No significant methodological limitations noted Study conducted in the UK Results appear generally applicable, although this did include people who had not undergone surgery |
| | |
| Study | Brands-Appeldoorn 2019 ³² |
| Aim | To investigate the information needs of breast cancer patients regarding the long-term cosmetic outcome after breast conserving treatment |
| Population | Women who had undergone breast conserving treatment |
| | n=6; Age range, 49 to 68 years (median 56 years); Sex, all female |
| Setting | Cancer unit in a general teaching hospital |

Methods and In-depth semi-structured interviews with thematic analysis

Findings Content of information – outcomes of surgery

Qualitative interviews

All patients felt it was important to discuss the cosmetic impact of the surgery. Views varied on the timing of this information, from before surgery through to after all other treatments had been completed.

Information provision and information seeking - information sources and mode of communication

Patients valued both written and verbal information, as well as visual information. In this context, some patients felt that the use of visual information may make women less reluctant to undergo surgery.

Study design

| Study | Brands-Appeldoorn 2019 ³² |
|---|---|
| | Other themes were identified in the study but they were not directly related to information or support needs, so are not reported here. |
| Limitations and applicability of evidence | Moderate limitations noted around patient selection and the depth of analysis Study conducted in the Netherlands Results appear generally applicable, although this is a population of women after a specific surgery |
| | |
| Study | Brooke 2018 ³⁴ |
| Aim | To understand how patients and caregivers perceived care coordination during transitions of surgical care |
| Population | Adults who had undergone surgery for a chronic health condition and caregivers |
| | |

| n 00, Aga maan 62 E yaaray Cay, 20 famala, 52 malay Ethniaity, 10 Highania | |
|---|--|
| n=90. Ade mean, 62.5 vears, Sex, so remaie, 52 maie, Ethnicity, 19 mispanic | |
| | |

| | n=24; Age mean, 63.2 years; Sex, 14 female, 10 male; Ethnicity, 4 Hispanic |
|--------------|--|
| Setting | Community healthcare clinics |
| Study design | Focus groups |

Semi-structured focus groups with iterative thematic analysis Methods and analysis

Findings Content of information – treatment planning

Patients and their families needed accurate expectations of the processes of care coordination before, during, and after surgery. But healthcare providers often failed to provide adequate information and support resources to help coordinate care before or after surgery. Patients and caregivers wanted detailed information on risks and benefits, what would happen in hospital, and the process of recovery. This need increased as patients became more engaged with the healthcare providers, and communication improved when patients felt more informed.

Other themes were identified in the study but they were not directly related to information or support needs, so are not reported here.

No significant methodological limitations noted Limitations and applicability of Study conducted in the US evidence Results appear generally applicable

Caregivers

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| Study | Carr 2017 ³⁹ |
|---|--|
| Aim | To understand experiences of wait time among patients awaiting scheduled orthopaedic or cardiac surgery |
| Population | Adults awaiting scheduled orthopaedic or cardiac surgery |
| | n=32; Age range, 43 to 89 years; Sex, 16 female, 16 male; Median wait time, 102 days (range 41 to 218 days) |
| Setting | Community |
| Study design | Qualitative interviews |
| Methods and analysis | In-depth telephone or face-to-face interviews with phenomenological analysis |
| Findings | Support needs – social relationships |
| - | Patients valued the support of family and friend whilst waiting for surgery. However, social networks can also exert a negative pressure whilst waiting. |
| | Other themes were identified in the study but they were not directly related to information or support needs, so are not reported here. |
| Limitations and applicability of evidence | No significant methodological limitations noted Study conducted in Canada Results are limited to this stage of the care pathway only |
| | |
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| Study | Carrier 2018 ⁴¹ |
|----------------------|--|
| Aim | To identify men's perceptions of the impact of the physical consequences of a radicalized prostatectomy on their quality of life |
| Population | Men of all ages and nationalities who had a radicalized prostatectomy as treatment for all stages of prostate cancer |
| | n=19 qualitative studies |
| Setting | Not specified |
| Study design | Systematic review of qualitative studies |
| Methods and analysis | Qualitative research findings were pooled using the Joanna Briggs Institute method of meta-synthesis. This involved the aggregation or synthesis of findings to generate a set of statements that represented that aggregation, through assembling the findings rated according to their quality, and categorizing these findings on the basis of similarity in meaning. These categories were then subjected to a meta-synthesis. |
| Findings | Content of information – outcomes of surgery |
| | Men wanted to know what to expect in terms or urinary incontinence, and this helped them to prepare and information gathering pre- operatively was a vital part of this. Men often felt men felt ill prepared for the physical impact of surgery. |

| · · · · | |
|----------------------------------|--|
| Study | Carrier 2018 [*] |
| | Information provision and information seeking – information sources and mode of communication |
| | Some men liked receiving written pre-operative information. |
| | Information provision and information seeking - balance and consistency |
| | Men felt that accurate, detailed and honest information was lacking concerning the practical and emotional side of dealing with incontinence after surgery. |
| | Support needs – social relationships |
| | Varied sources of support were sought throughout postoperative recovery periods, some men felt that there was a need for information, but not support, although a good relationship with the urologist was describes as a form of support |
| | Support needs – support groups |
| | Men also sought alternative sources of information from peers and the internet and stated that they gained support from online prostate cancer forums and buddying systems with a friend or family member who had previously undergone the same surgery. |
| | Other themes were identified in the study but they were not directly related to information or support needs, so are not reported here. |
| Limitations and applicability of | No significant methodological limitations noted |
| | Review included 2 UK-based studies |
| evidence | Focused on a specific outcome, but likely to have some wider applicability |
| | |

| Study | Dibley 2018 ⁵⁸ |
|--|--|
| Aim | To explore influences on patients' decision-making and compared preoperative concerns with postoperative outcomes related to stoma surgery |
| Population Adults who had undergone stoma surgery or who were considering stoma surgery Clinicians were also included, but their results are not reported further | |
| | Focus groups n=19; Age range, 20 to 73 years (median, 40.5 years); Sex, 10 female, 9 male; Ethnicity, 17 white British, 1 other white, 1 Indian Interviews |
| | n=29; Age range, 22 to 58 years (median, 39.4 years); Sex, 13 female, 16 male; Ethnicity, 28 white British, 1 Indian |
| Setting | Community |
| Study design | Focus groups and interviews |
| Methods and | Semi-structured focus groups, using trigger questions, and telephone or face-to-face interviews, using a topic guide, with thematic |

| Study | Dibley 2018 ⁵⁸ |
|----------------------------------|--|
| analysis | analysis, guided by a pragmatic analytical hierarchy |
| Findings | Information provision and information seeking – information sources and mode of communication |
| | Patients described 'many paths' of information seeking, with some people deliberately avoiding information and some people actively seeking information on the internet or from others with a stoma directly. This behaviour is often influenced by the rapport and relationship with healthcare professionals. |
| | Patients wanted information to dispel the 'fear of the unknown'. This included images of stomas after surgery and in the longer term, as well as seeing the stoma bag and being able to practise with this before surgery. |
| | Information provision and information seeking – balance and consistency |
| | Patients wanted information that was honest and balanced from the MDT, and they wanted accurate information on possible complications and issues in the early stages after surgery. Patients noted the use of language, such as 'the last resort' was not helpful, and messages could be framed more positively. |
| | Support needs – support groups |
| | Patients considered meeting someone else who had a stoma as being particularly beneficial. |
| | Other themes were identified in the study but they were not directly related to information or support needs, so are not reported here. |
| Limitations and applicability of | Moderate methodological limitations noted because of limited detail on the methods used Study conducted in the UK |
| evidence | Results appear generally applicable |
| | |
| Study | Fletcher 2019 ⁷² |
| Aim | To explore the long-term impact of difficulty with kneeling and how healthcare services could be improved to help patients kneel after total knee replacement |
| Population | Adults who had undergone total knee replacement and who continued to have extreme difficulty kneeling 7 to 10 years after surgery |
| | n=56; Age median, 75 years (range, 71 to 80 years); Sex, 39 female, 17 male |
| Setting | Community |
| Study design | Qualitative interviews |
| Methods and analysis | Brief, structured telephone interviews with descriptive content analysis |
| Findings | Content of information – outcomes after surgery |
| | Detions considered that more information before current on nector problems (meeting would be useful. Other information that |

Patients considered that more information before surgery on postoperative problems kneeling would be useful. Other information that might be of value was guidance on what can or cannot be done after knee surgery, more holistic approaches to care, the use of

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| Study | Fletcher 2019 ⁷² |
|---|---|
| | kneeling demonstrations, and advice to encourage people not to worry about damaging the prosthesis. |
| | Other themes were identified in the study but they were not directly related to information or support needs, so are not reported here. |
| Limitations and applicability of evidence | No significant methodological limitations noted Study conducted in the UK Results appear generally applicable |
| | |
| Study | Gainer 2017 ⁷⁴ |
| Aim | To investigate the optimal approach to decision making |
| Population | Older adults who had undergone CABG surgery |
| | n=15; Age mean, 74.9 years (range, 65 to 85); Sex, 3 female, 12 male |
| Setting | Community |
| Study design | Focus groups |
| Methods and analysis | Semi-structured focus groups with thematic analysis |
| Findings | Content of information – outcomes of surgery |
| | Patients and families needed time to understand expectations of care that are realistic. |
| | Information provision and information seeking – information sources and mode of communication |
| | Patients wanted risk and benefits to be presented in a range of different ways and individualised to each patient. |
| | Support needs – social relationships |
| | Many patients reported that a mutually respectful relationship with the care team was important. |
| | Other themes were identified in the study but they were not directly related to information or support needs, so are not reported here. |
| Limitations and | No significant methodological limitations noted |
| applicability of evidence | Study conducted in Canada |
| | Results appear generally applicable |

| Study | Gustavell 2017 ⁸¹ |
|-------|---|
| Aim | To explore common symptoms and self-care in the first 6 months after pacreaticoduodenectomy |

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| Study | Gustavell 2017 ⁸¹ |
|----------------------------------|--|
| Population | Adults who had undergone pacreaticoduodenectomy |
| | Healthcare professionals were also included, but their results are not reported further |
| | n=14; Age mean, 63 years (range, 49 to 69 years); Sex, 7 female, 7 male; Months since surgery, median 6 (range, 1 to 7) |
| Setting | University hospital |
| Study design | Qualitative interviews |
| Methods and analysis | Semi-structured interviews, face-to-face and by telephone, with inductive content analysis |
| Findings | Content of information – self-care after surgery |
| | Patients reported a lack of self-care advice on specific symptoms and medication use at discharge. This resulted in adverse effects that could have been avoided. Patients also reported a lack of advice about pain management and how to reduce opioids. |
| | Support needs – social relationships |
| | Self-care activities included engaging in social activities, including meeting with friends or visiting a former workplace. Patients reported this activity as being very important in their recovery. However, sometimes fatigue made social activities hard or impossible. |
| | Other themes were identified in the study but they were not directly related to information or support needs, so are not reported here. |
| Limitations and applicability of | Moderate limitations noted around the impact of the researchers on the process |
| | Study conducted in Sweden |
| evidence | Results appear generally applicable, although this is a rare cancer |
| | |

| Study | Halm 2017 ⁸⁵ |
|----------------------|---|
| Aim | To describe age and gender-specific concerns, needs, and strategies during the first 3 months after CABG |
| Population | Caregivers for adults who had undergone CABG surgery n=32; Age mean, 61 years in the younger cohort (defined as > 55 and < 70), and 76 in the older cohort (defined as > 70); Sex, 8 |
| | female, 8 male; Ethnicity, white; Mean length of stay, 6 to 8 days |
| Setting | Community and a regional hospital |
| Study design | Qualitative interviews |
| Methods and analysis | Structured interviews, opened with a 'grand tour' question, with constant comparative analysis |
| Findings | Content of information – self-care after surgery |

| Study | Halm 2017 ⁸⁵ |
|---------------------|--|
| | Female caregivers wanted to know what to look for in the incision, and that it takes time to heal. Repeated information on what can be done by the patient could sometimes be a source of strain for female caregivers. Female caregivers wanted simplified information on diet that they could use to plan meals and make joint changes to their diets. |
| | Support needs – social relationships |
| | Female caregivers identified the need for moral support, but did not describe the preferred source of support. |
| | Information provision and information seeking – balance and consistency |
| | Male caregivers found navigating inconsistent information burdensome. Inconsistent information on diet, preparation, and medical management occurred throughout the care pathway. |
| | Other themes were identified in the study but they were not directly related to information or support needs, so are not reported here. |
| Limitations and | No significant methodological limitations noted |
| applicability of | Study conducted in the US |
| evidence | Results appear generally applicable |
| | |
| Study | Hewitt 2019 ⁹⁷ |
| Aim | To gain a deeper understanding of patients' perceptions of treatment sequencing (surgery and radiotherapy) for soft tissue sarcoma, to identify concerns throughout treatment, and consider what patients found helpful |
| Population | Adults diagnosed with soft tissue sarcoma within the last 5 years (between 2011 and 2016), not currently receiving radiotherapy or chemotherapy treatment |
| | n=19; Age range, 29 to 84 years (median 65 years); Sex, 8 female and 11 male; Radiotherapy, 9 participants received preoperative radiotherapy, 10 received radiotherapy postoperatively; Time since diagnosis, range 7 to 48 months (median 22 months); Time since treatment ended, range 2.5 to 48 months (median 18 months) |
| Setting | Hospital |
| Study design | Qualitative interviews |
| NATURE IN THE STATE | In shorth event structured from the force interview with the metic swelltestice and with |

Findings

Content of information - treatment planning and process of care

Participants said that their initial concern or uncertainty upon hearing the treatment plan was reduced when information about their condition was provided and the reasons behind their treatment plans were explained by healthcare professionals.

Content of information – outcomes of surgery

All participants wanted basic information about the potential outcomes.

analysis

| Study | Hewitt 2019 ⁹⁷ |
|---|---|
| | Information provision and information seeking - level of detail |
| | Most participants said they received sufficient information from healthcare professionals. Others sought more information and used online resources; these participants felt that a better understanding of treatment helped improve their emotional response to treatment, as they knew what to expect. Information-seeking behaviour also varied across an individual's treatment process and by individual preference. |
| | Support needs – social relationships |
| | Participants derived psychological and physical support from a network of family, friends, community members, and social support groups. Whilst social support could be beneficial, interaction with others could also be perceived as having a detrimental impact. |
| | Support needs – support groups |
| | Although all participants were aware of additional sources of support for people with cancer, the extent to which these services were used appeared to be inversely related to how much support was received from close family and friends. Individuals who accessed support groups reported doing so as it enabled them to feel understood by someone who had experienced a similar situation |
| | Other themes were identified in the study but they were not directly related to information or support needs, so are not reported here. |
| Limitations and applicability of evidence | No significant methodological limitations noted Study conducted in the UK |
| | Focused on a specific condition (soft tissue sarcoma) and the experience of treatment sequencing, but results appear generally applicable |
| | |
| Study | Høvik 2018 ¹⁰² |

| Study | Høvik 2018 ¹⁰² |
|----------------------|--|
| Aim | To explore the experience of patients undergoing total knee arthroplasty in a fast-track pathway during the first 2 weeks after surgery |
| Population | Patients undergoing TKA in a fast-track pathway |
| | n=13: Age, 1 aged 40 to 49, 4 aged 50 to 59, 4 aged 60 to 69, 4 aged 70 to 79; Sex, 8 female and 5 male; Living arrangements, 8 living with someone, 5 living alone; Employment, 4 employed, 9 retired |
| Setting | University hospital |
| Study design | Qualitative focus groups |
| Methods and analysis | Semi-structured face-to-face focus groups with systematic text condensation |
| Findings | Information provision and information seeking - balance and consistency Information was repeated by nurses and physiotherapists throughout the hospital stay, thereby creating confidence and predictability. However, there were discrepancies in provider information after surgery. |
| Study | Høvik 2018 ¹⁰² |
|---|--|
| | Information provision and information seeking – information sources and mode of communication |
| | The pamphlet of written information in the fast-track trajectory was highlighted as the most important piece of patient information. |
| | Support needs – support groups |
| | Many patients expressed satisfaction in meeting other patients at the patient school. |
| | Content of information – self-care after surgery |
| | The participants found it challenging but satisfactory to use their own resources to direct their own recovery at home, based on the information gathered from health personnel. |
| | Content of information – outcomes of surgery |
| | Participants realised that postsurgical impairment was temporary, with prospects of improvement in daily functioning. |
| | Other themes were identified in the study but they were not directly related to information or support needs, so are not reported here. |
| Limitations and applicability of evidence | No significant methodological limitations noted |
| | Study conducted in Norway |
| | Focused on a specific care model, but results appear generally applicable |

| Study | Ivarsson 2018 ¹⁰⁹ |
|----------------------|--|
| Aim | To elucidate perceived situations of significance experienced by people with hip fracture during prehospital and in-hospital care |
| Population | Adults who had undergone hip fracture surgery |
| | n=14; Age mean, 79 years women, 68 years men; Sex, 8 female, 6 male; Length of hospital stay, 6 days women, 9 days men; Living alone, 8 in total |
| Setting | University hospital |
| Study design | Qualitative interviews |
| Methods and analysis | In-depth semi-structured face-to-face interviews with critical incident analysis |
| Findings | Content of information – treatment planning |
| | Information about the preoperative process was good, with people feeling they knew what was going to happen and feeling able to ask questions. However, some people did not understand the detailed information about the process. |
| | Content of information – outcomes of surgery |
| | Patients wanted information about their prognosis, and how activities, such as travel or exercise, might be affected. |

| Study | Ivarsson 2018 ¹⁰⁹ |
|---|---|
| | Information provision and information seeking – information sources and mode of communication |
| | Patients often wanted to ask questions of the operating surgeon in the postoperative period, but this was not always possible. |
| | Support needs – social relationships |
| | Patients wanted to maintain contact with their family, using social media or through visits, during their hospital stay. |
| | Before discharge, patients valued the support and continued care from healthcare staff. They also reported receiving adequate information and that the process of planning for care after returning home worked well. |
| | Other themes were identified in the study but they were not directly related to information or support needs, so are not reported here. |
| Limitations and applicability of evidence | No significant methodological limitations noted Study conducted in Sweden Results appear generally applicable |

| Study | Kennedy 2017 ¹¹⁵ |
|----------------------|---|
| Aim | To determine the informational needs and delivery preferences for education of families and patients undergoing hip or knee replacement |
| Population | Adults attending follow-up visits for hip or knee replacement surgery n=32: Age, mean 67.9 (range 46 to 78); Sex, 16 female and 16 male; Time from surgery, 44% up to 3 months, 44% between 3 months and 9 months, and 12% 9 months to a year |
| Setting | Specialist hospital |
| Study design | Qualitative focus groups and interviews |
| Methods and analysis | Semi-structured face-to-face focus groups and interviews with inductive analysis |
| Findings | Content of information – self-care after surgery |
| | Patients wanted more education around pain management post-operatively. In particular, participants expressed an interest in education related to expected levels of post-operative pain, the purpose of the prescribed medications, information on how to take the medications, their side effects and how to "wean off" pain medications. |
| | Information provision and information seeking - balance and consistency |
| | Patients identified several sources of information that they drew on most frequently, including online sources. They found information that was consistent as being helpful. Information from other patients was also seen as useful, and although these were recognised as being 'anecdotal', a range of views was valued. |

| Study | Kennedy 2017 ¹¹⁵ |
|----------------------|--|
| | Information provision and information seeking – information sources and mode of communication |
| | Some participants identified the surgeon as their main source of information. While patients felt that surgeons were an important source of knowledgeable information, they often described mixed experiences of how much time they felt surgeons could or did provide. |
| | Several participants were interested in accessing information from newer technologies including mobile health applications and social media, although other participants were less certain. |
| | Other themes were identified in the study but they were not directly related to information or support needs, so are not reported here. |
| Limitations and | No significant methodological limitations noted |
| applicability of | Study conducted in Canada |
| evidence | Results appear generally applicable |
| | |
| Study | Kyte 2018 ¹²⁰ |
| Aim | To describe surgically treated lung cancer patients' experiences of coming home after discharge from hospital to expand the knowledge about their supportive care needs |
| Population | Adults who had surgery for primary lung cancer |
| | n=14; Age, mean 72 years (range of 56–87 years); Sex 8 female and 6 male; Living arrangements, 9 lived with family members (spouse/children), 5 lived alone. At the time of the interviews, none of the participants received adjuvant chemotherapy or radiation treatment |
| Setting | University hospitals |
| Study design | Qualitative interviews |
| Methods and analysis | Semi-structured face-to-face interviews with qualitative content analysis |
| Findings | Content of information – self-care after surgery |
| | Several of the patients were discharged with unmet information needs on how to manage their care at home. |
| | Content of information – outcomes of surgery |
| | Several of the patients were discharged with unmet information needs on symptoms to be aware of and signs of complications. |
| | Content of information – coordination of care |
| | Several of the patients were discharged with unmet information needs on whom to contact in case of problems or how to obtain more information. |
| | |

Information provision and information seeking - level of detail

| Study | Kyte 2018 ¹²⁰ |
|----------------------------------|--|
| | Some of the participants wished for more information and emphasised the need to talk to someone outside their families, preferably a healthcare professional, about their worries and their future. However, they did not know whom to contact. Others felt that they were in safe hands, treated with a caring attitude and empathy and provided with sufficient information by their healthcare providers. |
| | Support needs – home care |
| | Some participants became very frustrated because they felt that they were neither being heard nor receiving the support they needed. Only a few participants had been asked by the hospital nurse if they needed help from home care after being discharged. |
| | Support needs – social relationships |
| | Participants often had to rely on their spouses, families, friends and neighbours to fulfil their needs for daily living support. Many participants underlined the importance of managing life by themselves and not being a burden to their families or public healthcare. Nevertheless, they appreciated the care and support from their families |
| | Other themes were identified in the study but they were not directly related to information or support needs, so are not reported here. |
| Limitations and applicability of | No significant methodological limitations noted Study conducted in Norway |
| evidence | Focused on a specific condition (lung cancer), but results appear generally applicable |

| Study | Malley 2017 ¹³⁶ |
|----------------------|--|
| Aim | To explore the issues and challenges of care transitions in the preoperative environment |
| Population | Adults in the preoperative phase of surgical care n=10; no further information reported |
| Setting | Medical centre |
| Study design | Qualitative interviews |
| Methods and analysis | Semi-structured interviews with thematic analysis |
| Findings | Content of information – treatment planning and process of care |
| | Patients described the value of the preoperative phase of care in the context of preparing them for what to expect, not only for the surgical procedure but also for the entire perioperative course and after care. |
| | Content of information –coordination of care |
| | Patients described a lack of care coordination once they had entered the perioperative environment that seemed rooted in communication gaps |

| Study | Malley 2017 ¹³⁶ |
|---|---|
| | Other themes were identified in the study but they were not directly related to information or support needs, so are not reported here. |
| Limitations and applicability of evidence | No significant methodological limitations noted Study conducted in the US Focused on a specific period of care |
| | |
| Study | Malley 2018 ¹³⁵ |
| Aim | To explore how older patients with multiple chronic conditions and their family caregivers perceive their engagement and overall care experience throughout the preoperative phase of elective orthopaedic hip or knee joint replacement |
| Population | Older adults hospitalised for an elective hip or knee joint replacement |
| | n=11 patients; Age, median 81 year; Sex 9 female and 2 male; Ethnicity, 9 Caucasian, 2 African American n=5 family caregivers consisting of adult children or elderly spouses |
| Setting | Medical centre |
| Study design | Qualitative interviews |
| Methods and analysis | Semi-structured telephone interviews with qualitative content analysis Key themes were further conceptualised within the framework of the Quality Health Outcomes Model elements consisting of client, system, intervention and outcome. |
| Findings | Information provision and information seeking – information sources and mode of communication Some participants found computer or web-based information difficult to access. Participant often managed to find other ways to engage and obtain the knowledge that they felt was needed to prepare them for their surgery. Patients y frequently relied on information from conversations with those who have had the experience. |
| | Support needs – coordination of care Participants described a lack of care coordination amongst disciplines within the preoperative environment. As such, care coordination often fell to the family or caregivers. |
| | Content of information – outcomes of surgery |
| | Some participants noted a sense of lack of preparation regarding the perioperative care trajectory, and this was also noted by the family or caregivers. |
| | Content of information – self-care after surgery |
| | Patients and families or caregivers also reported the lack of preparation extended into the experience of care when discharged. |
| | Other themes were identified in the study but they were not directly related to information or support needs, so are not reported here. |

| Study | Malley 2018 ¹³⁵ |
|----------------------------------|--|
| Limitations and applicability of | No significant methodological limitations noted |
| | Study conducted in the US |
| CVIdence | Results appear generally applicable, although this is a population of older adults |
| | |
| Study | McMullen 2019 ¹⁴¹ |
| Aim | To identify patients' needs and challenges from pretreatment to approximately 2 years after surgery, and to identify how these needs were addressed across 2 different delivery systems |
| Population | Adults (at least 21 years of age at the time of surgery) who received a cystectomy with urinary diversion (ileal conduit, neobladder, or continent pouch) for the treatment of bladder cancer |
| | n=62 (32 patients in the integrated care setting, with 25 patients and 5 caregivers in the comprehensive cancer care setting); |
| | Integrated care setting |
| | Age, mean 70 years (range: 47–87 years); Surgeries took place an average of 2.6 years before study participation (range: 1–6 years); Ethnicity, 7 racial/ethnic minority participants and 1 unknown |
| | Comprehensive cancer care setting |
| | Age, mean 68 years (range: 38–93 years); Surgeries took place an average of 2.1 years before study participation (range: 0–5 years); Ethnicity, 1 racial/ethnic minority participant |
| Setting | Integrated care and comprehensive cancer |
| Study design | Qualitative focus groups and interviews |
| Methods and analysis | Structured guides use for both the focus groups and the interviews |
| | Modified grounded theory approach used for analysis to identify themes across the dataset, complemented by analytic memos and comparative analysis |
| Findings | Information provision and information seeking – level of detail |
| | Some participants felt overwhelmed by the amount of information they were given, while others felt their doctors did not inform them adequately about the options. Participants also varied in whether they preferred to follow a clear recommendation from their provider or whether they wanted a more active role in the decision, including seeking more information through other sources, such as the internet or another doctor. Information seeking continued in the post-surgery phase, often including learning about the experience of others undergoing a similar operation using online groups or other support groups. |
| | Information provision and information seeking – balance and consistency |
| | |

| Study | McMullen 2019 ¹⁴¹ |
|---|--|
| | more neutral information. |
| | Content of information – outcomes of surgery |
| | Perceptions about the benefits and disadvantages of different diversion types were not consistently presented to participants. Participants also wanted to know what was a 'normal' recovery experience, including likely complications. |
| | Content of information – self-care after surgery |
| | Participants wanted information on self-care processes for their return to home, and this included information on how to use self-care equipment and how to order further supplies, as needed. Caregivers also needed to know how to care for the patient at home after surgery. |
| | Content of information – coordination of care |
| | Depending on the healthcare system, patients did not always know who to contact to get their needs met after leaving the hospital. |
| | Other themes were identified in the study but they were not directly related to information or support needs, so are not reported here. |
| Limitations and applicability of evidence | Moderate limitations noted around the impact of the researchers on the process Study conducted in the US May be limited in some aspects around applicability to the NHS |
| | |
| Study | Meleo-Erwin 2019 ¹⁴⁶ |
| Aim | To describe the post-operative experience of bariatric surgery from the perspective of patients themselves |
| Population | People who posted on 2 online weight-loss surgery forums |

No information on the participants was reported

Setting Home surgical clinics

Study design Qualitative analysis of online forum comments

Methods and Thematic analysis of selected online comments, using web-based software (single reviewer only) analysis

Findings Content of information – self-care after surgery

Participants valued healthcare professionals who offered explicit post-operative diet and nutritional supplement protocols, which included not only what to eat or take, but how much, how often, and at what stage in the recovery process and recommended exercise regimens. Participants also expressed they were confident that the information they were given was grounded in best practices and the latest scientific research.

Other themes were identified in the study but they were not directly related to information or support needs, so are not reported here.

| Study | Meleo-Erwin 2019 ¹⁴⁶ |
|---|--|
| Limitations and applicability of evidence | Significant limitations noted around the methods, including participant selection, analysis, and adequacy Study conducted in the US |
| | May be limited in some aspects around applicability to the NHS |
| | |
| Study | Otutaha 2019 ¹⁶⁴ |
| Aim | To determine the specific information needs of patients with upper GI cancer |
| Population | Adults with upper GI cancer |
| | treatment, and 1 at multiple stages |
| Setting | Not specified |
| Study design | Systematic review of qualitative studies |
| Methods and analysis | No detail was provided, and results were reported narratively by study No methods of synthesis or quality assessment were reported |
| Findings | Content of information – outcomes of surgery Participants wanted information regarding post-operative recovery, quality of life, and their expected survival. |
| | Content of information – self-care after surgery |
| | Participants wanted information regarding on the management of post-operative symptoms. |
| | Support needs – financial issues Participants wanted support with coping strategies for insurance and financial issues. |
| | Support needs – social relationships Participants reported that relationships and family were most important to them. |
| | Information provision and information seeking – information sources and mode of communication |
| | One-on-one consultations with senior medical staff were the preferred method of information transfer followed by web-based information services |
| | Other themes were identified in the study but they were not directly related to information or support needs, so are not reported here. |
| Limitations and applicability of evidence | Significant limitations noted around the methods, including study selection, analysis, and adequacy of data Study included UK-based studies |
| | May be limited in some aspects around applicability to the NHS |

| Owers 2017 ¹⁶⁵ |
|--|
| To explore issues missing from preoperative education for bariatric surgery |
| Adults who had undergone bariatric surgery |
| n=12; Age mean, 55 years (range, 41 to 76 years); Sex, 11 female, 1 male; Ethnicity, 11 white |
| Teaching hospital |
| Qualitative interviews |
| In-depth interviews, with a general inductive analysis |
| Content of information – outcomes |
| Patients considered that information on the side-effects of surgery was lacking. |
| Support needs – social relationships Information on the need for social support after surgery was felt to be lacking. Social support could be from friends, family, healthcare providers, and the wider community. |
| Other themes were identified in the study but they were not directly related to information or support needs, so are not reported here. |
| No significant methodological limitations noted Study conducted in the UK Results appear generally applicable |
| 474 |
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| Study | Rattray 2019 ¹⁷⁴ |
|----------------------|--|
| Aim | To explore patients' perceptions of recommencing feeding after colorectal surgery to determine areas of improvement to meet their needs and expectations |
| Population | Adults admitted for a lower GI surgical procedure n=16; Age, range 36 to 79 years; Sex 9 female and 7 male |
| Setting | Tertiary teaching hospital |
| Study design | Qualitative interviews |
| Methods and analysis | In-depth semi-structured face-to-face interviews with thematic qualitative analysis |

| Study | Rattray 2019 ¹⁷⁴ |
|---|---|
| Findings | Content of information – care immediately after surgery |
| | Effective communication of nutrition care information, such as delivering nutrition-related messages and explaining dietary changes, was seen as an important part of the post-operative experience for some patients. |
| | Information provision and information seeking – information sources and mode of communication Clear and simple dietary-related messages delivered by doctors were appreciated by patients and heavily shaped their behaviour and attitudes towards nutrition in the period immediately after surgery. |
| | Other themes were identified in the study but they were not directly related to information or support needs, so are not reported here. |
| Limitations and applicability of evidence | No significant methodological limitations noted Study conducted in Australia May have some limited applicability as focused on a specific intervention (post-surgical nutrition) |
| Limitations and applicability of evidence | No significant methodological limitations noted Study conducted in Australia May have some limited applicability as focused on a specific intervention (post-surgical nutrition) |

| Study | Recio-Saucedo 2018 ¹⁷⁵ |
|----------------------|--|
| Aim | To investigate the information requirements of young women to support their treatment decision making at diagnosis |
| Population | Women diagnosed with breast cancer aged 40 years or younger who had undergone surgery |
| | n=20; Age at diagnosis, mean 35 years (range 23 to 40); Ethnicity, 19 White/Caucasian; Relationships, 4 were single, 11 had children; Employment, 19 were working; Education, 14 went to college or had higher education |
| Setting | Not clear |
| Study design | Qualitative interviews |
| Methods and analysis | Semi-structured face-to-face interviews with qualitative framework analysis |
| Findings | Information provision and information seeking – information sources and mode of communication |
| | Women discussed the need for visual materials (photographs) of different surgical procedures, particularly showing women in their age group. |
| | Content of information – treatment planning and process of care |
| | Women expressed the need to understand how effective one type of surgery would be over another and whether a more conservative surgical procedure, such as breast-conserving surgery, would be enough to ensure non-recurrence |
| | Other themes were identified in the study but they were not directly related to information or support needs, so are not reported here. |
| Limitations and | No significant methodological limitations noted |
| applicability of | Study conducted in the UK |

| Study | Recio-Saucedo 2018 ¹⁷⁵ |
|---|--|
| evidence | Results appear generally applicable, although this is a population of younger women |
| | |
| Study | Rosaasen 2017 ¹⁷⁹ |
| Aim | To identify pre transplant education topics from the post-transplant patient perspective |
| Population | Adults who had a kidney transplant n=7; Age, range 29 to 65; Sex, 3 female and 4 male; Employment, 5 employed, 2 retired; Ethnicity, 6 White, 1 Aboriginal; Time since transplant_range 3.5 years to 21 years |
| Setting | Not specified |
| Study design | Qualitative interviews |
| Methods and analysis | Semi-structured interviews with thematic analysis |
| Findings | Information provision and information seeking – information sources and mode of communication Written information was valued, Although the group supported the production of supplemental videos, they unanimously believed that written materials should continue to be provided during transplant assessment. Although online technology is important, they warned that transplant candidates should be cautious when researching information and interpreting online data. |
| | Support needs – social relationships |
| | A supporting relationship, including attending health care appointments, was seen as important, including after surgery. |
| | Content of information – outcomes of surgery |
| | Participants felt well informed about the transplant surgery, however there were some gaps in knowledge about the procedure and the outcomes after surgery. |
| | Content of information – self-care after surgery Although the group collectively felt they received adequate education about taking transplant medications, they felt overwhelmed once they were discharged home. Participants also reported gaps in knowledge about complications, such as rejection |
| | Other themes were identified in the study but they were not directly related to information or support needs, so are not reported here |
| Limitations and applicability of evidence | Moderate limitations noted around patient selection and analysis Study conducted in Canada Results appear generally applicable, although the time from surgery is long, participants were asked about what they wish they had known at the time of surgery |
| | |

| Study | Rosenberg 2018 ¹⁸⁰ |
|---|--|
| Aim | To explore the process of surgical decision-making in young women, including how issues particular to younger women affected their decision and the post-surgical experience |
| Population | Women aged 40 years or younger with stage 0 to III breast cancer, 1 to 3 years from diagnosis who had undergone breast cancer surgery |
| | n=20; Age at diagnosis, median 37 years (range: 29-40 years); Ethnicity, 90% identified as White non-Hispanic; Stage of disease 70% (n = 14) of women had either Stage I (n = 4) or II (n = 10) disease at diagnosis |
| Setting | Not clear |
| Study design | Qualitative focus groups |
| Methods and analysis | 4 focus groups, using a semi-structured approach with thematic content analysis |
| Findings | Information provision and information seeking – information sources and mode of communication |
| | Women used a range of sources, including pictures to help women see what their breasts might look like after surgery. |
| | Support needs – social relationships Women spoke of how family, friends, colleagues, and breast cancer survivors were sources of information. The majority of women appreciated and found helpful a range of both emotional and material support from partners, family, friends, colleagues, and other breast cancer survivors. |
| | Content of communication – outcomes of surgery |
| | Overall, most participants articulated that they generally received sufficient information from their providers about what recovery would be like and that this information was clearly communicated. Nonetheless, while in many cases women were aware of the potential challenges they might encounter after surgery, there was a sense that they had underestimated what these challenges would be like. Other women felt the information provided to them was inadequate and that they were not well prepared for what to expect after surgery |
| | Support needs – support groups |
| | Some women spoke of having difficulty finding adequate peer support resources or support groups when they needed it, and sometimes attributed this to their being diagnosed at a younger age than most women with breast cancer |
| | Other themes were identified in the study but they were not directly related to information or support needs, so are not reported here. |
| Limitations and applicability of evidence | No significant methodological limitations noted Study conducted in the US |
| | Results appear generally applicable, although this is a population of younger women |

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| Study | Samuelsson 2018 ¹⁸⁴ |
|----------------------|---|
| Aim | To describe how older patients experience the healthcare chain and information given before, during and after colorectal cancer (CRC) surgery |
| Population | Older adults who had undergone elective CRC surgery with curative intent |
| | n=16; Age, women median age 82.5 years (range 78 to 84) men median age 82.5 years (range 76 to 89); Sex, 8 female and 8 male; Housing status, all lived in their own accommodation; Relationships, 6 ongoing relationships, 10 widowed |
| Setting | University hospital |
| Study design | Qualitative interviews |
| Methods and analysis | Semi-structured face-to-face interviews with inductive content analysis |
| Findings | Content of information – outcomes of surgery |
| ŭ | A few participants said that they had not received any information at all on the potential of having to have a stoma. Some participants expressed the need for information about functional restrictions and long-term problems such as diarrhoea and nutrition after surgery |
| | Content of information – care immediately after surgery |
| | Some participants would have liked much more information about care on the surgical ward to reduce uncertainty about the forthcoming events. An important reflection was the need for information on what to expect, in both positive and negative terms. |
| | Content of information – treatment planning and process of care |
| | Some participants would have liked much more information about the operation itself to reduce uncertainty about the forthcoming events. An important reflection was the need for information on what to expect, in both positive and negative terms. |
| | Information provision and information seeking – information sources and mode of communication |
| | Information provided during the hospital stay was perceived as one-way communication, and not adapted to the needs of the individual patient. Participants felt that there was no time for questions or discussion. Information provided was difficult to understand because of the use of medical terms or it was given at an inappropriate time, for example directly after waking up from anaesthesia. |
| | Furthermore, no consideration was felt to be taken for the older patient's need for time to understand. |
| | After surgery, information was described as hard to understand (i.e., not converted to lay language), and written information needed further explanation. |
| | Content of information – self-care after surgery |
| | The need for information in the post discharge period mostly concerned wound care, bowel dysfunction, weight loss and activities of daily life. There was great uncertainty regarding whom to contact about these problems, their general practitioner or the hospital department. |
| | Other themes were identified in the study but they were not directly related to information or support peeds, as are not reported here |

Other themes were identified in the study but they were not directly related to information or support needs, so are not reported here.

| Study | Samuelsson 2018 ¹⁸⁴ |
|---|--|
| Limitations and applicability of evidence | No significant methodological limitations noted Study conducted in the US Results appear generally applicable, although this is a population of older people |
| | |
| Study | See 2018 ¹⁸⁹ |
| Aim | To systematically summarize and synthesize osteoarthritic patients' expectations and experiences in undergoing total joint arthroplasty to identify their educational needs |
| Population | Adults undergoing total joint arthroplasty |
| | n=20 studies (13 qualitative and 6 quantitative); 3 studies based in the UK |
| Setting | Not specified |
| Study design | Systematic review of patient education needs |
| Methods and analysis | Thematic analysis, reported narratively |
| Findings | Content of information – treatment planning and process of care |
| | Patients with preoperative anxiety before surgery reported the need to bridge informational gaps that patients had before surgery to dispel fears and allay anxiety. |
| | Content of information – outcomes of surgery |
| | Patients sought information on what to expect during recovery from health-care providers and those who had completed their surgery. Patients can use information to understand their condition and avoid unrealistic expectations that might impede actual recovery. Patients also wanted information on how their functional abilities might return, including activities of daily living, but there was often felt to be little information on this aspect of recovery. |
| | Information provision and information seeking – level of detail |
| | While information should be personalised, there is the need to maintain a successful balance between provision of information and relevancy of knowledge to patients. |
| | Content of information – self-care after surgery |
| | Patients wanted information on pain medication and nonpharmacological strategies to cope with pain. |
| | Content of information – coordination of care |
| | Patients lacked continuity of care and access to services with health-care professional-led education, support, and guidance upon discharge from hospital. |

| Study | See 2018 ¹⁸⁹ |
|---|---|
| | Other themes were identified in the study but they were not directly related to information or support needs, so are not reported here. |
| Limitations and applicability of evidence | Moderate concern about the adequacy of the data, also some survey data was included Review included studies based in the UK Little concern about applicability |
| | |
| Study | Sibbern 2017 ¹⁹⁷ |
| Aim | To aggregate, interpret and synthesise findings from qualitative studies to further our knowledge regarding patients' pre- and postoperative experiences when participating in an enhanced recovery after surgery |
| Population | Adults who had undergone colorectal, cardiac, gynaecological, and orthopaedic surgery in an ERAS program, and were hospitalised equal to or longer than 36 hours |
| | n=11 studies, 4 of which were based in the UK |
| Setting | Enhanced recovery after surgery services |
| Study design | Systematic review of qualitative studies |
| Methods and analysis | Meta-synthesis of included data |
| Findings | Information provision and information seeking – information sources and mode of communication |
| | Written material was highly valued and used as a reference throughout the care encounter. |
| | Information provision and information seeking – balance and consistency |
| | Some patients reported a lack of consistency of information, and this could lead to feelings of insecurity when the written information did not correspond with the verbal information |
| | Content of information – outcomes of surgery |
| | Patients were informed about their mobility levels in the hospital, but some wanted more detailed guidelines about their recovery of physical function upon discharge. Those who developed serious postoperative complications found that the information provided at discharge was insufficient. In particular, they reported that they had missed information regarding how to identify possible complications. |
| | Throughout the recovery process, the patients experienced new informational needs. For example, it was important that healthcare professionals provide information about the timing to recommence work. |
| | Other themes were identified in the study but they were not directly related to information or support needs, so are not reported here. |

| Study | Sibbern 2017 ¹⁹⁷ |
|----------------------|---|
| Limitations and | No significant methodological limitations noted |
| applicability of | Review included studies conducted in the UK |
| evidence | Results appear generally applicable |
| | |
| Study | Smith 2018 ²⁰² |
| Aim | To understand patients' educational needs on pain management when undergoing hip or knee arthroplasty |
| Population | Adults who had undergone hip or knee arthroplasty and who used high doses of opioids after surgery |
| | Clinicians and other health care providers were also included, but their results are not reported further |
| | |
| | n=11; Age not reported; Sex, 9 female, 2 male |
| Setting | Community |
| Study design | Qualitative interviews |
| Methods and analysis | Semi-structured face-to-face interviews with content analysis |
| Findings | Content of information – outcomes after surgery |
| | Patients were surprised how long their pain lasted after surgery, particularly as they had been told that hip surgery is generally less painful than knee surgery. |
| | Content of information – self-care after surgery |
| | Patients received information on the surgery, but most people felt that pain management was not addressed adequately. Most people |
| | did not receive information on how or when to taper opioids. People also wanted to know what to do is pain increased after exercise or physical therapy. |
| | Information provision and information seeking – balance and consistency |
| | People reported receiving mixed messages about the use of opioids and other approaches to pain management. Patients also felt they were treated 'like an addict' and were not fully informed on the potency of opioids. |
| | Information provision and information seeking – information sources and mode of communication |
| | The information from the surgeon was clear and helpful regarding pain management after surgery. However, not all patients recollected this information being provided. |
| | Other themes were identified in the study but they were not directly related to information or support needs, so are not reported here. |
| Limitations and | No significant methodological limitations noted |
| applicability of | Study conducted in the US |

| Study | Smith 2018 ²⁰² |
|----------------------|---|
| evidence | Results may be less applicable to countries other than the US, because of the differences in opioid prescribing and use |
| | |
| Study | Strickland 2018 ²⁰⁸ |
| Aim | To explore patients' perspective of surgery and early recovery when undergoing lower limb (hip or knee) arthroplasty |
| Population | Adults undergoing lower limb (hip or knee) arthroplasty |
| | n=30; Age, mean 70.97 years (range 45 to 92); Sex, 16 female and 14 male; Ethnicity, 28 White-British, 2 other White; Time since surgery, mean 28.5 days (range 0 to 63); Employment, 7 employed: 21 retired, 2 unemployed; Living situation, 6 alone, 24 with family; Home situation 4 1-level, 26 with stairs |
| Setting | Specialist hospital |
| Study design | Qualitative interviews |
| Methods and analysis | Semi-structured face-to-face interviews with thematic analysis |
| Findings | Content of information – treatment planning and process of care |
| | Participants reported that going through the postoperative physiotherapy and occupational therapy requirements prior to the operation was beneficial |
| | Information provision and information seeking – information sources and mode of communication |
| | One patient suggested that being given more printed information sheets could be beneficial to help understand their available drug combinations, therapeutic actions, dosing and timing. |
| | Information provision and information seeking – balance and consistency |
| | Some found that the information they were given regarding the early recovery phase during hospitalisation was contradictory. This leads to confusion and uncertainty over what to expect and who to believe. |
| | Other themes were identified in the study but they were not directly related to information or support needs, so are not reported here. |
| Limitations and | No significant methodological limitations noted |
| applicability of | Study conducted in the UK |
| evidence | Results appear generally applicable |
| | |

| Study | Stutzman 2017 ²⁰⁹ |
|-------|---|
| Aim | To identify important patient and family perspectives regarding the transition from the operating room to the ICU |

| Study | Stutzman 2017 ²⁰⁹ |
|---|---|
| Population | Patients and family members experiencing a perioperative event that would result in a transfer to the ICU |
| | n=7; no further information reported |
| Setting | University medical centre |
| Study design | Qualitative interviews |
| Methods and | Semi-structured face-to-face interviews with hermeneutic cycling, and thematic analysis |
| analysis | Also included triangulation with existing literature, and maximising variation |
| Findings | Information provision and information seeking – information sources and mode of communication |
| | In the hospital, patients reported that they would like to see the surgeon before the procedure. Patients also mentioned that if they had seen or talked to the perioperative nurse before the surgical procedure, they felt more at ease. The family wanted to be able to ask the ICU nurse about the patient and his or her care in the operating room. |
| | Content of information – treatment planning and process of care |
| | During the surgical procedure, communication with the family was pivotal, especially regarding the length of the surgical procedure, medications, patient condition, changes in condition, and what to expect in the short term. Communication about upcoming postoperative testing was also important. |
| | Other themes were identified in the study but they were not directly related to information or support needs, so are not reported here. |
| Limitations and applicability of evidence | Moderate methodological limitations noted around ethics and the relationship of the researchers to the patients Study conducted in the US Results appear generally applicable |
| | |

| Study | Webb 2018 ²²³ |
|----------------------|---|
| Aim | To discover missed opportunities for providing information to women undergoing breast reconstruction in an effort to decrease regret and improve patient education, teaching modalities, and satisfaction |
| Population | Women undergoing breast reconstruction n=19; Age, mean 54 years (range 38 to 69); Time since surgery, mean 108 days (range 15 to 286) |
| Setting | Not specified |
| Study design | Qualitative interviews |
| Methods and analysis | Semi-structured face-to-face interviews with thematic analysis |

| Study | Webb 2018 ²²³ |
|---------------------------|---|
| Findings | Information provision and information seeking – balance and consistency |
| | Participants noted that the plastic surgeon was a trusted source to guide patients to trustworthy online or print sources, thus supplementing the information transfer that takes place during the consultation process and allowing patients to confidently, and at their own pace, consult outside sources. Some participants supplemented information from the surgeon with information from online sources. |
| | Support needs – social relationships |
| | Informants emphasized the importance of bringing a companion to health-care appointments, and this support continued to be positive after surgery. |
| | Information provision and information seeking – information sources and mode of communication |
| | Written information in the form of pamphlets, brochures, books, and online resources was also generally welcomed, although tolerance for the amount of information varied. |
| | photographs of reconstructive complications. It was felt that photographs were much better at communicating than diagrams or written materials. Overall, women felt an FAQ resource might be useful. |
| | Content of information – outcomes of surgery |
| | Participants felt they were not given information on everything they needed to know about the surgery. |
| | Information provision and information seeking – level of detail |
| | An individualized approach to information provision, in terms of the type and quantity of information, as well as the delivery method, is necessary to adapt to different learning styles, personality types, and information tolerance levels. |
| | Support needs – support groups |
| | Women regularly sought out the experience of others who had previously undergone breast reconstruction, and whilst not everyone wanted to meet in person, the benefit of speaking with someone who "had been there" remained. |
| | Other themes were identified in the study but they were not directly related to information or support needs, so are not reported here. |
| Limitations and | No significant methodological limitations noted |
| applicability of evidence | Study conducted in Canada |
| | Results appear generally applicable |

| Study | Wickwar 2018 ²²⁵ |
|------------|---|
| Aim | To explore patients' expectations of orbital decompression surgery for thyroid eye disease (TED) and whether these were met |
| Population | Adults undergoing orbital decompression surgery for thyroid eye disease |

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| Study | Wickwar 2018 ²²⁵ |
|---|--|
| | n=14; Age, mean 47.2 yeas (range 23 to 76); Sex, 10 female and 4 male; Ethnicity, 10 White-British, 2 Asian, 2 Black African/Caribbean/Other; Employment, 7 employed, 3 retired, 4 unemployed; Relationship, 10 living with another, 4 single or other |
| Setting | Outpatient clinic |
| Study design | Qualitative interviews |
| Methods and analysis | Semi-structured face-to-face interviews with thematic analysis |
| Findings | Content of information – outcomes of surgery Not all patients could fully imagine their appearance after surgery was worrying for some, and was often attributed to a lack of information. Participants felt the information they received prior to surgery had prepared them for the worst possible outcome, which was not always experienced. Participants were generally satisfied with the information they had been given about recovery. |
| | Content of information – treatment planning and process of care Some participants attributed their lack of understanding about what surgery would involve to the difficulty in recalling information from pre-operative consultations |
| | Information provision and information seeking – information sources and mode of communication |
| | Participants described the various sources of information they used to find out more about orbital decompression, including websites, blogs and forums. Videos of the procedure and 'before-and-after' photos of other patients were commonly found online, with mixed reactions. Some found graphic information reassuring, while others actively avoided it as they found it too distressing. |
| | Other themes were identified in the study but they were not directly related to information or support needs, so are not reported here. |
| Limitations and applicability of evidence | Moderate concerns about the process of analysis Study conducted in the UK Results appear generally applicable, particularly to procedures with a substantial cosmetic impact |

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Appendix E: Excluded studies

2 E.1 Excluded qualitative studies

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Table 19: Studies excluded from the qualitative review

| Reference | Reason for exclusion |
|--|--|
| Aagaard 2018 ¹ | No relevant outcomes and does not match review question (describes the process, not the information or support needs) |
| Atinyagrika Adugbire 2017 ⁷ | No relevant outcomes and does not match review question (focus more on what information was provided, not the value of that information) |
| Atinyagrika Adugbire 2018 ¹⁵ | No relevant outcomes and does not match review question (focus more on what information was provided, not the value of that information) |
| Attwood 2018 ¹⁶ | No relevant outcomes and does not match review question (not focused on the information people wanted from their healthcare professional) |
| Barros 2017 ²¹ | No relevant outcomes and does not match review question (analysis of blog posts, but no clear link to information provision by healthcare professionals) |
| Bloom 2019 ²⁸ | No relevant outcomes and does not match review question (describes the process of surgery, not the information or support needs) |
| Braude 2017 ³³ | Incorrect study design (majority of included studies were quantitative) |
| Cater 2017 ⁴² | Incorrect study design (majority of included studies were quantitative) |
| Falco 2017 ⁶⁹ | Incorrect study design (majority of included studies were quantitative) |
| Gillis 2019 ⁷⁶ | Intervention does not match protocol (focus on the implementation of a specific programme) |
| Gupta 2018 ⁸⁰ | Population does not match protocol (participants refused surgery) |
| Hamilton 2017 ⁸⁶ | No relevant outcomes and does not match review question (describes the experience of surgery, not the information or support needs) |
| Hortsman 2017 ¹⁰¹ | Intervention does not match protocol (focus on a specific information- providing intervention) |
| Huetteman 2018 ¹⁰⁶ | Population does not match protocol (not all participants had surgery) |
| Johnson 2018 ¹¹¹ | No relevant outcomes and does not match review question (describes the process of surgery, not the information or support needs) |
| Kaptain 2017 ¹¹³ | Population does not match protocol (focus on the information needs of nurses) |
| Latifi 2017 ¹²⁵ | Population does not match protocol (not adults in the perioperative period) |
| Lui 2017 ¹³³ | Population does not match protocol (not adults in the perioperative period) |
| McMullen 2018 ¹⁴⁰ | Population does not match protocol (the majority of participants were not patients or caregivers) |
| Nabozny 2017 ¹⁵² | No relevant outcomes and does not match review question (describes the process of decision making, not the information or support needs) |
| Odom-Forren 2018 ¹⁵⁸ | Unable to obtain paper (not available through the British Library) |

| Reference | Reason for exclusion |
|----------------------------------|--|
| Parretti 2019 ¹⁶⁷ | Population does not match protocol (not adults in the perioperative period) |
| Pennbrant 2018 ¹⁶⁹ | Incorrect study design (review of patient surveys) |
| Richards 2017 ¹⁷⁷ | No relevant outcomes and does not match review question (describes the process of surgery, not the information or support needs) |
| Rushton 2017 ¹⁸² | Intervention does not match protocol (focus on a specific rehabilitation intervention) |
| Shahmoon 2019 ¹⁹² | Population does not match protocol (adults undergoing neurosurgery) |
| Sharman 2017 ¹⁹³ | Population does not match protocol (not adults in the perioperative period) |
| Siyam 2018 ²⁰⁰ | No relevant outcomes and does not match review question (describes the outcomes of surgery, not the information or support needs) |
| van Kasteren 2018 ²¹⁷ | No relevant outcomes and does not match review question (focus more on what information was provided, not the value of that information) |
| Watts 2018 ²²² | No relevant outcomes and does not match review question (focus more on what information was provided, not the value of that information) |
| Yeh 2017 ²³¹ | Population does not match protocol (participants had not yet decided to undergo surgery) |

Table 20: Studies identified but not included in the qualitative review due to saturation being reached

| Reference |
|------------------------------|
| Anon 2000a ¹⁶⁸ |
| Anon 2000b ¹⁷¹ |
| Aasa 2013 ² |
| Aazami 2016 ³ |
| Abbasi2015 ⁴ |
| Abbott 2011 ⁵ |
| Abu-Nab 2007 ⁶ |
| Agnew 2012 ⁸ |
| Alawadi 2016 ⁹ |
| Allen 2001 ¹⁰ |
| Allvin 2008 ¹¹ |
| Andersson 2015 ¹² |
| Ang 2013 ¹³ |
| Aquilina 2007 ¹⁴ |
| Azatio 2014 ¹⁷ |
| Azatio 2014 ¹⁸ |
| Backstrom 2006 ¹⁹ |
| Bberg 2013 ²² |
| Bernard 2014 ²³ |
| Bernat 2006 ²⁴ |
| Bhamrah 2015 ²⁵ |

| Reference |
|-------------------------------|
| Bhardwaj 2012 ²⁶ |
| Blazeby 2010 ²⁷ |
| Borneman 2003 ²⁹ |
| Boughton 2009 ³⁰ |
| Bramall 2014 ³¹ |
| Bryson 2014 ³⁵ |
| Burt 2005 ³⁶ |
| Butler 2000 ³⁷ |
| Carney 2006 ³⁸ |
| Carr 2014 ⁴⁰ |
| Chan 2012 ⁴³ |
| Chaplin 2016 ⁴⁴ |
| Chen 2012 ⁴⁵ |
| Cheung 2009 ⁴⁶ |
| Chou 2006 ⁴⁷ |
| Conradsen 2016 ⁴⁹ |
| Crook 2005 ⁵⁰ |
| Clendenen 2010 ⁴⁸ |
| Dancet 2010 ⁵¹ |
| Das 2000 ⁵² |
| Davidge 2010 ⁵³ |
| Davis 2014 ⁵⁴ |
| Davis 2013 ⁵⁵ |
| Demierre 2011 ⁵⁶ |
| Dewar 2015 ⁵⁷ |
| Doering 2002 ⁵⁹ |
| Doyle 2009 ⁶¹ |
| Drageset 2012 ⁶² |
| Dunckley 2008 ⁶³ |
| Durity 2000 ⁶⁴ |
| Eckhardt 2008 ⁶⁵ |
| Edem 2013 ⁶⁶ |
| Enstrom 2000 ⁶⁷ |
| Eriksson 2014 ⁶⁸ |
| Fergus 2002 ⁷⁰ |
| Fitzgerald 2016 ⁷¹ |
| Fritzell 2010 ^{/3} |
| Gezer 2019 ⁶⁰ |
| Gillespie 2007 ⁷⁵ |
| Gilmartin 2004 ¹¹ |
| Gilmartin 2007 ^{/8} |
| Gilmartin 2008 ^{/9} |
| Haapala 2013 [°] |
| Hallowell 2000 ⁸³ |
| Halm 2016 ^{°4} |

| Reference |
|----------------------------------|
| Harcourt 2004 ⁸⁷ |
| Harker 2002 ⁸⁸ |
| Hartford 2005 ⁸⁹ |
| Hassel 2016 ⁹⁰ |
| Hassling 2003 ⁹¹ |
| Hedman 2011 ⁹² |
| Heggland 2013 ⁹³ |
| Henselsmans 2012 ⁹⁴ |
| Herling 2016 ⁹⁵ |
| Hermansen 2016 ⁹⁶ |
| Hill 2008 ⁹⁸ |
| Hoermann 2001 ⁹⁹ |
| Holliman 2012 ¹⁰⁰ |
| Hovind 2013 ¹⁰³ |
| Huber 2012 ¹⁰⁴ |
| Hudson 2015 ¹⁰⁵ |
| Hughes 2000 ¹⁰⁷ |
| Ingadottir 2016 ¹⁰⁸ |
| Jacobs 2000 ¹¹⁰ |
| Kaplan 2014 ¹¹² |
| Kelly 2016 ¹¹⁴ |
| Khu 2010 ¹¹⁶ |
| Kiessling 2004 ¹¹⁷ |
| King 2014 ¹¹⁸ |
| Kunneman 2015 ¹¹⁹ |
| Lally 2009 ¹²¹ |
| Lane-Carlson 2012 ¹²² |
| Lapum 2010 ¹²³ |
| Larnebratt 2019 ¹²⁴ |
| Laursen 2015 ¹²⁶ |
| Lee 2010 ¹²⁷ |
| Leegard 2008 ¹²⁸ |
| Lehto 2011 ¹²⁹ |
| Leo-Swenne 2015 ¹³⁰ |
| Letterstal 2010 ¹³¹ |
| Lim 2015 ¹³² |
| Malkin 2000 ¹³⁴ |
| Malmstrom 2013 ¹³ |
| Masuda 2014 ¹³⁰ |
| May 2006 ¹⁰⁰ |
| McMurray 2007 |
| McNair 2016 ¹¹⁰ |
| McQuestion 2016 |
| Megyesi 2014 |
| |

 $\ensuremath{\textcircled{\sc online \sc on$

| Reference |
|-------------------------------------|
| Milne 2008 ¹⁴⁸ |
| Mohamed 2014 ¹⁴⁹ |
| Mordiffi 2003 ¹⁵⁰ |
| Murray 2015 ¹⁵¹ |
| Neault 2005 ¹⁵⁴ |
| Nelson 2015 ¹⁵⁵ |
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