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Barriers and facilitators to the implementation of audio-recordings and question prompt lists in cancer care consultations: a qualitative study

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Abstract

Objective: Question prompt lists (QPLs) and consultation audio-recordings (CARs) are two communication strategies that can assist cancer patients in understanding and recalling information. We aimed to explore clinician and organisational barriers and facilitators to implementing QPLs and CARs into usual care.

Methods: Semi-structured interviews with twenty clinicians and senior hospital administrators recruited from four hospitals. Interviews were recorded and transcribed verbatim and thematic descriptive analysis was utilised to identify barriers and facilitators to implementing each communication strategy.

Results: CARs and QPLs are to some degree already being initiated by patients but not embedded in usual care. Systematic use should be driven by patient preference. Successful implementation will depend on minimal burden to clinical environments and feedback about patient use. CARs concerns included: medico-legal issues, ability of the CAR to be shared beyond the consultation, and recording and storage logistics within existing medical record systems. QPLs issues included: applicability of the QPLs, ensuring patients who might benefit from QPL’s are able to access them, and limited use when there are other existing communication strategies.

Conclusions: While CARs and QPLs are beneficial for patients, there are important individual, system and medico-legal considerations regarding usual care.

Practice implications: Identifying and addressing practical implications of CARs and QPLs prior to clinical implementation is essential.

Keywords: Communication, patient-centred care, cancer, audio-recording, question prompt lists, qualitative
1. Introduction

Approximately 130,000 people are diagnosed with cancer in Australia every year [1]. Receiving a cancer diagnosis and medical information is often a shock and treatment decision making may be overwhelming. During consultations, clinicians aim to provide patients with information about their condition and possible treatments and engage patients in treatment decisions [2, 3]. Equally, in order for patients to appraise their circumstances and to participate in treatment decisions in an informed manner, they will need a sound understanding and recollection the information provided [4]. Therefore, effective communication involves engagement of both parties and consists of the following components: build a patient-doctor relationship, listen to the patient, gather information, understand the patient’s perspective, share information, reach agreement on plans and provide disclosure [5].

Patient-clinician communication is complex, particularly in difficult areas such as when breaking bad news.

Irrespective of this knowledge, cancer patients do not necessarily achieve their preferred level of participation [4]. Thus, More effective communication strategies which focus on patient participation can may enhance patient engagement in decision making, satisfaction, and preparedness and reduce anxiety and depression emotional outcomes [6-8]. With growing numbers of cancer patients and limited resources, it is critical that communication interventions known to be effective in improving patient outcomes should be integrated into usual care. Two examples are consultation audio–recordings (CARs) and question prompt lists (QPLs).

CARs are usually made using digital recorders, with a copy provided to the patient after the consultation to take home, and a copy retained for medical records [9]. Patients who
receive a CAR, compared to those who do not, generally have a clearer understanding of their
cancer treatment, greater information recall and greater involvement in subsequent
consultations and decision-making [9] [1]. CARs also support patients to convey medical
information and can facilitate treatment discussions with family members [10].

QPLs consist of a structured list of questions that patients may wish to ask about
illness, treatment and supportive care. Patients are typically given the QPLs before their
consultation so they can identify questions which are important to them [11], and Cancer
patients consider QPLs to be a useful communication aid QPLs as it can prompt them
to ask more questions increase the number of questions patients they ask that and
physicians provide more information when cued by questions, particularly with about
difficult- to- broach topics such as prognosis and treatment cost [12-14].

Despite evidence supporting the use of QPLs and CARs, there is little indication that
these strategies are routinely used in clinical practice [9, 12]. Additionally, there is little
published data regarding provider and organisational issues and concerns related to routine
implementation although they can influence utilisation [9, 11]. Thus, it is important to
obtain organisational and clinical perspectives in order to support successful routine
implementation of these strategies. The aim of this study was to explore barriers and
facilitators to implementing an integrated communication initiative, consisting of QPLs
and CARs, in usual care from the viewpoint of clinicians and hospital administrators.

2. Methods

This qualitative study used interpretive description methodology [15]. The purpose of this
approach is to discover themes or patterns and to understand action, based on experiences, in
order to inform clinical knowledge.
2.1 Participants

Clinicians and senior hospital administrators were recruited from one of four Melbourne metropolitan hospitals where cancer patients are treated. Purposive sampling was used to identify participants for interview, to obtain maximum variation in the experiences of interest. Each recruiting site had a project representative who identified and approached eligible participants. A total of 37 people were approached and 22 (59%) agreed to take part. For the first 15 interviews, participants were sought on the basis of obtaining a variety of clinician and senior hospital administrator views across the four hospitals. A further five participants were approached based on their role to explore the findings identified in the initial 15 interviews. Recruitment ceased when no new themes were derived from the interview content (data saturation). The study was approved by the Human Research Ethics Committee of the Peter MacCallum Cancer Centre (LNR/15/PMCC/31) and all participants signed a consent form.

2.2 Data collection and analysis

Data were obtained through semi-structured individual interviews. Open-ended questions were used to explore participants’ thoughts about implementing the communication strategies (CARs and QPLs) into usual practice. Interview questions included: what is your overall impression of QPLs/CARs; what are your thoughts about implementing QPLs/CARs during initial treatment consultations; and what might be the positive and negative aspects of QPLs/CARs from your perspective? An abbreviated version of an oncologist QPL [16] example QPL was presented to participants as an example if they had no prior experience with this communication strategy. Interviews were conducted by an experienced
interviewer (JD, LS, NM or PS), face-to-face or via telephone, were recorded and transcribed verbatim. NVivo10 qualitative data analysis software was used for data management [17]. Thematic descriptive analysis was used to identify important and consistent themes about the barriers and facilitators to implementing the communication strategies into usual care [18]. An inductive approach was used, that is, findings were generated from the data rather than imposing a predetermined structure for the analysis. Analysis began by listening to, and reading, all of the interview transcripts. Next, analysis of the text was used to generate the initial categories (open coding) which were then grouped into sub-themes of related categories. Sub-themes were sorted, synthesised and organised to develop broader themes. To ensure the rigour of the findings [11], a subset (10%) of the transcripts were dual coded (NM and PS) and for all data, emerging sub-themes and themes were discussed with researchers (PB and TH) knowledgeable in the area. This was achieved by discussing the analysis during meetings and via correspondence.

3. Results

3.1 Demographics

A total of 22 hospital staff agreed to participate from four hospitals in Melbourne. Recordings failed for two interviews and so findings presented are based on data from 20 participants. Interview times ranged from 8 to 45 minutes with a median of 22 minutes. The majority of the participants were male (55%), aged 40-49 (50%), 65% were doctors and 35% senior hospital administrators. Of the doctors, nine held senior positions such as heads of departments, three were medical oncologists and one was a registrar. Six of the senior
hospital administrators were managers such as CEO’s and operational managers, and one was a lawyer.

The findings are presented in two parts. Firstly, a summary of the barriers and facilitators that applied to implementation of both QPLs and CARs are presented as themes. Secondly, findings specific to either CARs or QPLs are reported. Each theme encapsulates a broad concept of the factors that could influence routine implementation. Within these, some sub-themes we neither distinctly a barrier nor a facilitator as participants identified different aspects or instances which could either support or hinder implementation. While the themes are presented individually they do overlap and are connected. Five key themes were generated: 1) clinical context, 2) requires resources, 3) communication strategies can alter the interaction, 4) who sets the agenda for each of communication strategies, and 5) one size doesn’t fit all. Figure 1 illustrates the themes and sub-themes relevant to the implementation of CARs and QPLs.

Fig. 1. Overview of themes and sub-themes.

3.2 Clinical context

Participants recognised that understanding the context of clinical consultations and the potential implications of CARs and QPLs is critical to integrating these communication strategies into usual care. While all participants interviewed expressed the view that CARs and QPLs were good communication initiatives, they also expressed concern about implementation and what impact it could have within the context of a clinical environment.
For example, some participants described misconceptions about what happens during a clinical consultation. In particular, a consultation is not necessarily an uninterrupted, quiet, one-to-one interaction and not all diagnostic information may be known at the time of the consultation. As such, adhering to QPLs or producing a coherent audio-recording may be challenging and a potential barrier. For example, within the public health system there are many factors that impact the efficiency of clinical consultations, such as over-booked clinics, long patient waiting lists and paper-based medical record systems. Thus either strategy that could further lengthen the consultation was not welcome.

While the strategies were not implemented as part of usual care at any of the hospitals, participants noted that patients are already using QPLs, CARs and other strategies to aid patient communication (e.g. a summary of the consultation, web-based frequently asked question sections in information sheets). Of the twelve clinicians interviewed, all but one identified that they had experience with one or both strategies such as patient self-generated lists or recording on a smart phone. Table 1 illustrates, with quotes, each of the sub-themes incorporating the clinical context.

3.3 Requires resources

Given that the current clinical context is resource and time poor, several clinicians and administrators raised concerns about the hospital additional resources required to effectively implement these strategies in a sustainable way. Many participants believed they would increase consultation time, particularly if a patient went through all the questions of a QPL from start to finish or if clinicians were involved in the logistics of recording the consultation.
Only two participants thought that these communication strategies could reduce consultation time or subsequent discussions (e.g. review appointments or follow-up phone calls from patients and/or family). **Overall, in order to enable routine implementation, resources would be required to facilitate these strategies in a clinical setting** (refer to Table 2).

[Insert Table 2 here]

### 3.4 Alters the interaction

Many participants queried whether the implementation of these strategies might impact the communication dynamic within a consultation, particularly in relation to the content of what is said, the quality or nature of the interaction (formal vs non-formal, structured vs non-structured) and trust or rapport building with a patient (refer to Table 3 for examples). As a result of possible alterations to the consultation dynamic, advantages and disadvantages were identified for patients. Participants noted that many cancer consultations are an intimate exchange between doctor and patient about matters of critical importance to the patient. Thus the **intervention’s strategies** impact could be both positive (in promoting patient satisfaction) and negative (by making the consultation more formal, factual and reducing intimacy).

“So I think as long as patients are aware of that that it will alter the consultation, it’s likely to have some impact on the consultation and in the ideal world you would go no it won’t have any impact but there are time restrictions, the legalities, that might not even be what the patient wishes that happens down the line.” (CAR – Clinician, P2)
This theme is about whom (i.e. patient, clinician, or family) directs the interaction within a consultation, who benefits from the interaction, who determines if the communication strategy is useful or valuable, and as such, who influences the focus or use of QPLs and CARs (refer to Table 4). While every participant was able to identify benefits of QPLs or CARs for patients, many questioned how they would be used in actual practice. Patient benefits identified included: QPLs could serve as a memory aid (for patient and clinicians) and/or a prompt for patients to think about areas for discussion, and CARs could aid patient recall and comprehension of information discussed within a consultation, and in relaying the consultation information to a patient’s support network. From a clinician and administrator perspective, the usefulness or value of the communication strategies were discussed in relation to existing communication efforts, whether strategies would actually be used by patients, and evidence of patient benefit.

Several clinicians and administrators had concerns about the scope and development of QPLs. Issues raised included: who determines what are valid questions to include in QPLs, what topics are included, how generic or specific are the questions, what sort of language is used, and which population will the QPLs be developed for (i.e. patients, families)? With regards to CARs, questions were raised about who can request that a consultation be recorded and how consent is obtained (if at all).
3.6 One size doesn’t fit all

Related to the findings of patient benefit and usefulness, many participants had questions and concerns about how each communication strategy could fit and benefit all of the diverse patient circumstances. When participants were asked about implementing QPLs and CARs as an integrated communication initiative during initial treatment consultations, most identified that their use would have to be relevant to the clinical situation, i.e. appropriate for and wanted by the patient. Participants conveyed a preference for these communication strategies to be patient-driven rather than introduced as a systematised and imposed, standard of care (see Table 5). Thus, a flexible, patient-driven approach would more likely be supported in usual care.

Although there were similarities in the benefits and concerns identified regarding joint implementation of QPLs and CARs, distinct issues were also identified for the implementation of QPLs and CARs as discrete strategies.

3.7 Audio-Recording

CARs were recognised as providing a verbatim record of a clinical consultation, formalising what was previously a private conversation, as a source of “captured” information. Concerns raised by clinicians and administrators related to questions about the status and pragmatic requirements of CARs. Concerns included: what permissions would be required to generate a CAR, who would be responsible for it, what would this information
be used for, who would have access to it, does it become an extension of the medical records and if so, is it logistically feasible to store within the existing medical record system.

An overview of the findings related to CARs is presented in Table 6.

While those interviewed identified potential benefits of CARs for the patient, such as supporting recall and sharing information with the family or support network, many participants also raised medico-legal concerns. Clinical participants identified that they would feel uncomfortable and anxious, and that it would change the interaction. Concerns about CARs were based on past experiences of patients who had previously requested a CAR:

[Mimicking patient saying] “I’m going to record this” and I’d be like oh “okay”.

I think we link that negative stance, most of the families who ask for recordings are, in my experience, looking for a reason to like maybe question what has happened in past.” (Clinician, P22)

Because of the potential medico-legal implications, clinicians and administrators talked about how this communication requires disclosure and/or agreement (consent) for all parties involved, such as, the patient, health professional and organisation. Additionally, it was felt important that the hospital keep a copy of the CAR, should this be introduced as standard of care. The information technology and clinical consultation time required to do this were also recognised as important logistical considerations. While some clinicians liked the idea of a patient-owned and initiated mobile application as the vehicle for CARs, the most acceptable solution was one which did not increase clinical consultation time, was easy to use, and accessible to patients and from the hospital record system.
3.8 Question prompt lists

QPLs were recognised as a resource to aid patients to gather information, encourage active participation in healthcare decisions, and to discuss and prioritise topics which are important to them during a clinical consultation. While most clinicians and administrators identified that QPLs could benefit patients, they also recognised that patients use other strategies to gather information, for example, accessing printed information, searching on the internet, talking to others, or developing their own list of questions. Additionally, some clinicians identified how they use existing personal communication strategies, for example running through an informal checklist based on clinical experience, to pre-empt patient questions and provide information before being asked. Figure 3 illustrates the overview of findings specifically related to QPLs.

The main concern about QPLs was how to make them relevant to patients’ situations and maximise usage given existing communication strategies. For example, should a QPLs contain a list of general, broad questions or be developed as a disease or treatment specific resource?

[Insert Table 7 here]

4. Discussion and conclusion

4.1 Discussion
This study provides useful contextual insights from a clinical and organisational perspective to aid understanding of the many critical issues that require consideration prior to implementing QPLs and CARs into routine healthcare. Clinicians reported that some patients already use these communication strategies (i.e. using their own list of self-generated questions, patients using smartphones to record consultations) but systematic access for all patients of these communication aids was absent. While there was consensus that these strategies can benefit patients, it was clear that there are several important factors to be considered when developing an implementation plan for their use.

Firstly, when implementing these communication strategies into routine care, it is important to consider the current clinical context and that each strategy needs to fit within existing systems and have minimal impact on work practices. To illustrate, if a hospital requires a copy of a considers CARs as part of the patients medical record, additional infrastructure and processes will be required to ensure the car is stored correctly. Furthermore, additional steps will be required during a clinical consult for hospital staff and patients to support this process (e.g. communicating that CARs are an option for patients, making sure the equipment works, consenting for this activity, etc). And additional infrastructure and processes will be required to store the CAR, as it is consequently considered part of the patients medical record. While there is mixed evidence about the impact that CARs have on consultation times length [9], little is known about the ongoing impact and cost of implementing an CARs on from an administrative and information technology perspective and other hospital staff. Interestingly, during an implementation study [19], recording of consultations temporarily stopped as there was a halt on hospital spending and technology supplies could not be purchased (i.e. memory sticks, digital recorders). This highlights the requirement to assess and provide resources necessary so that CARs can be implemented in a sustainable way.
Secondly, perceived patient benefits, usefulness or value of which stakeholders develop and set the scope of the communication strategy (i.e. who sets the agenda of the communication strategy) is another important implementation factor. Similar to existing literature [9, 14], many clinicians and hospital administrators identified the potential benefits for patients when utilising either of these communication strategies. However, participants in this study questioned the extent to which each strategy would be useful or valuable from a patient’s perspective in addition to what is being provided in the current clinical context. This finding highlights two areas of interest: which party (i.e. patient or clinician) determines the use of a communication strategy and the translation of research into routine healthcare. While there is some evidence of effectiveness and patient value when these communication aids strategies are tested within a research framework [10, 11] when translating these into routine care there can be varying levels of use. To illustrate when evaluating QPLs in routine care, Dimoska et al. [12] reported that 64% (389/606) of patients accepted a QPLs when attending a consultation from one of four cancer centres [12]. Of those who accepted a QPLs and responded to the survey (n=139), 89% (n=123) read the QPLs and 44% (n=54) used them in the consultation. In a recent review, Sansoni and others [14] identified that endorsement or explicit encouragement of QPLs may increase the number of questions patients ask during a consultation. Despite evidence supporting the use of QPLs and clinicians identifying that there are benefits for patients, it is interesting to note that the lack of clinical support can still exist and hinder implementation of a patient-driven communication strategy [12]. Therefore, implementation and use of QPLs can be influenced by clinician behaviour or perception of the strategy. For these reasons, it is important to include education with clinicians to promote health literacy and patient involvement. Although these communication strategies target patients, it is important to obtain clinical buy-in when implementing into routine practice. One way to achieve this is to
pilot, evaluate and to provide **ongoing feedback to clinical staff and administrators about patient outcomes utilisation in an ongoing way**.

Lastly, when disseminating these communication strategies into usual care they should be patient-driven, that is patients choose if they would like to utilise a particular **communication strategy**, rather than process-driven as a one size approach may not fit all patients’ circumstances. **This Patient-driven** also includes patient preference in the development of a strategy and fundamentally who the strategy should be of most benefit to. Patient-clinician communication and gathering information about cancer is complex as each person has different: communication and learning styles, ideas about the communication goals, levels of knowledge, emotional capabilities, and understanding of medical language [2]. Given the multifaceted and dynamic nature of patient-clinician communication, it is not surprising that a standardised **strategy (e.g. one QPL for all patients) or one size fits all approach (e.g. recording all initial patient consultations)** was identified as problematic. In a recent review of QPLs, a range of QPLs were identified for different types of cancer, different treatments, and there was diversity in the number and type of questions listed [13]. Additionally, the review reported that there was variability in the reporting of how the QPLs were developed and the inclusion of patient perspectives in the development process [13].

Likewise, clinicians and hospital administrators in this study identified that CARs need to fit patient circumstances and that ultimately patients should choose when this occurs. One study randomised patients to a group where they were offered choice of receiving an audiotape of which 4% declined and of those who received an audiotape, one third did not listen to the audiotape 12 weeks post consultation [20]. Although participants in this study could identify patient benefits, many questioned if patients would find it useful and listen to the CAR. In a narrative literature review [9], it was reported that a majority of patients listened to the recording of the consultation (72% weighted average, range 54% to 100%).
contrast, the most frequent reason patients did not listen to CARs was feeling upset by hearing the information (25% of studies) and that information provided during the consultation was sufficient (28% of studies) [9]. In a systematic review [10] which combined CARs and written summary intervention strategies, a similar range of patient usage was reported (60% to 100%). While the usage rates are promising from the efficacy literature, findings from translational studies do not achieve the same level of utilisation. For example, low utilisation rates were reported in an implementation study which offered a decision and communication aids package to new patients with breast cancer [21]. The communication aids consisted of decision aid booklets and videos, patient question list, CAR, and a summary of the consultation. Of those patients who were coached in the aids, 33% (367/1,110) utilised CARs as a communication aid and of those who received a CAR recording, 60% listened to it. Additionally, a feasibility study which recruited via general non-cancer outpatient clinics, used broad patient inclusion criteria, and did not prompt patients to replay the consultation, only a third of patients listened to the recording [22]. Thus, there is lower usage of both QPLs and CARs when patients choose if they utilise these communication strategies in usual care.

The findings from this study extend beyond the previous literature by providing evidence that clinicians can experience anxiety about CARs and concerns about medico-legal implications can be linked to prior patient requests. Thus, it is recommended that healthcare organisations undertake due diligence activities (e.g. educating staff, consulting with insurers), and in particular consider the medico-legal implications of storing a copy of CARs as part of the medical records. Additionally, the concerns about patients circulating the recording to the wider community and consent requirements are also fundamental to address. One way to potentially deal with these concerns is to incorporate a consent process which communicates each party’s rights, obligations and acceptable distribution of the
recording. Given that patients currently request to record consultations on an ad hoc basis, healthcare organisations should allocate resources to explore the current medico-legal implications and how to best support all parties (patients, patient support network, clinicians and the healthcare organisations) with current requests.

Finally, while this qualitative study has several strengths, the findings need to be interpreted within the context in which it was undertaken. Results are from hospital administrators and clinicians recruited from metropolitan Victorian hospitals and as such, may not necessarily reflect the views of others based in other locations. Additionally, the opinions of those who did not think that these communication strategies were useful at all were actively sought; however, no participants with this perspective were recruited.

4.2 Conclusion

This study has demonstrated that clinical and administrative staff can be supportive of integrating QPLs and CARs, either alone or in combination, into cancer clinical consultations. Participants identified a number of benefits for patients and some potential benefits for clinical staff. Despite the potential benefits of these communication strategies there are important individual, system and medico-legal barriers considerations regarding which would need further consideration before implementing into their routine use in clinical practice.

4.3 Practice implications

These findings suggest that it is important to identify and address practical implications of CARs and QPLs prior to clinical implementation. In particular for CARs, reducing medico-
legal concerns requires a definitive response and clarity of legal implications for hospitals. This is a priority as ambiguity about medico-legal issues will be a persistent barrier to implementation of CARs.

Currently QPLs are widely available on websites such as government agencies, not-for-profit support organisations, cooperative trial groups and healthcare groups to promote patient involvement and participation in cancer care. Given that there is such diversity within the cancer population, no one QPL can be suitable for all patients throughout their illness trajectory. Rather, the preferred approach is to sign-post patients to a toolbox of QPLs so they can then choose which set of questions are of most relevance and to identify ways to signal to patients that these communication strategies are available with minimal health service burden. Moreover, the need to assess the optimal use of QPLs (ensuring those most in need and with greatest capacity to benefit are supported and enabled to know about and use QPLs) is also required. Likewise, future research exploring ways to implement CARs or QPLs with minimal burden is needed. in the following areas: 1) developing/tailoring each communication strategy for the specific healthcare environment; 2) identifying how to embed the strategy into routine healthcare in a sustainable way; 3) obtaining additional resources (e.g. technological infrastructure, staff time) required to implement the strategy in an ongoing way; and 4) evaluating and feeding back to clinical and executive staff about the utility and usefulness of each strategy from a patient perspective.

Informed consent
I confirm all patient/personal identifiers have been removed or disguised so the patient/person(s) described are not identifiable and cannot be identified through the details of the story.

Declaration of interest
Conflicts of interest: none
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Contributors and authorship
PS and NM designed the study. All authors contributed towards the execution of the study.
NM provided methodological expertise for analysis and PS co-coded the data. NM wrote the
first draft with guidance from MK. All authors read, provided critical feedback and approved
the final manuscript.

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References


<table>
<thead>
<tr>
<th>Sub-themes</th>
<th>Quotes</th>
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<tbody>
<tr>
<td>Competing demands within a healthcare system</td>
<td>We have to be conscious of the fact that there’s limited time in consultations and a large number of patients to be seen. (Clinician, P20)</td>
</tr>
<tr>
<td>(Barrier)</td>
<td>…either you accept that you can’t meet that time pressure or you’re going to be staying later than you’re planned to or you don’t spend the time and you don’t do things properly. (Clinician, P11)</td>
</tr>
<tr>
<td></td>
<td>If it takes three weeks to get your toner changed, I don’t want to see a great new audio recording system in all the consult rooms because I can’t even get a printer to print a label without getting jammed, so you know that that would be a barrier. (Administrator, P12)</td>
</tr>
<tr>
<td>Misconceptions about consultations</td>
<td>The law is predicated on there being a nice quiet dialogue like we’re having now across the desk in a nice quiet room and you know, we’ve got as much time as we need to go through all the things. It doesn’t happen like that in the real world. (Administrator, P21)</td>
</tr>
<tr>
<td>(Barrier)</td>
<td>You know some of them [consultations] can take up to an hour you know where you’re continually walking in and out of the room. So it’s disjointed. (Clinician, P10)</td>
</tr>
<tr>
<td></td>
<td>I guess in medicine there’s a lot of aspects of a patient’s case that may not be concrete at the time of being seen and often when their picture isn’t clear, we have to bring a lot of subjectivity into the...discussion. (Clinician, P22)</td>
</tr>
<tr>
<td>Already being used in practice</td>
<td>Clinician: … it’s not an uncommon thing to be asked, to say &quot;am I allowed to record this conversation for later listening purposes?&quot; and my stance personally is that I’m not too fussed about it. (Clinician, P22)</td>
</tr>
<tr>
<td>(Facilitator)</td>
<td>Interviewer: Has a patient ever brought in a question prompt list for a consultation with you?</td>
</tr>
<tr>
<td></td>
<td>Clinician: Oh yeah, quite often they often bring those prompt list questions. (Clinician, P3)</td>
</tr>
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<td></td>
<td>[refer to QPL] I think what’s probably new is maybe the mode of the information but it’s not a new concept, I have to say I think we already use it in lots of practical ways. (Administrator, P15)</td>
</tr>
<tr>
<td>Emotion and mortality</td>
<td>Particularly in an initial type of consultation, when you drop the bombshell and all they’re thinking about is my kids, who’s going to look after my kids when I die (Clinician, P1)</td>
</tr>
<tr>
<td>(Facilitator)</td>
<td>This comes back to the issue of people feeling overwhelmed when they’re having their consultations. There there’s a lot of psychological stress. (Clinician, P20)</td>
</tr>
<tr>
<td></td>
<td>[patients] they will invariably forget things and I guess it depends …as to what is spoken in [the] initial consultation but it will range from the diagnosis,… the prognosis, whether a patient has got potentially curative disease or the treatment is not curable. (Clinician, P10)</td>
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Table 2
Sub-themes of requires resources.

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<th>Sub-themes</th>
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| Impact on consult time (Barrier or Facilitator) | I guess you know potentially if you’ve got a patient that goes through every single question quite diligently and is writing things down that potentially might increase the length of time of the consultation. (QPLs - Clinician, P13)  
Some of the clinicians might argue that it takes longer if they have to go through all those questions but I would be arguing well you should be going through all those questions anyway so I don’t think there are any barriers. (QPLs - Administrator, P9)  
Time. It comes back to time. No it’s difficult enough to find a room, get the patient into the room and do all of that. You then tell me it’s not going to take you 5 minutes to set up whatever recording you are doing for each patient. Five minutes every 15 patients – that’s an hour…. So that’s actually ensuring that it’s just so automated that it takes no time. (CARs – Clinician, P2) |
| Cost to implement (Barrier)              | So it’s about the appropriate use of health dollars and so it has to be… cost neutral to us… Can we get one more staff member so that we can all go home on time and stop doing so much overtime? You know so I think there’s there is a real risk there. (CARs – Administrator, P12)  
This is a system that doesn’t have extra time or funding for that….or for all the stuff we do now. So this will be an extra which there is no extra space for. (CARs – Clinician, P3)  
You get lots of these USBs but it costs money….Remember it’s not just the money but it’s the effort so someone’s got to find that patient copy it onto the stick and then give it to the patient. (CARs – Administrator, P19) |
| Not sustainable (Barrier)                | I think …in some places certainly in practices I’ve worked in and perhaps they’ve dropped off because of the amount of energy it takes. (QPLs – Clinician, P1)  
The risk is also that … they [patients] don’t find that useful. Maybe use it once and then it drops off. (CARs – Administrator, P12) |
Table 3
Sub-themes of alters the interaction

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<th>Sub-themes</th>
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<td>Content of the interaction</td>
<td>[Audio-recording] has the potential of just altering the way you do the consultation. It will be an accessible piece of evidence therefore … I would probably spend less time dealing with the psychological component of that patient and more time dealing with the delivery of fact… you will alter what [you] say but you will probably specify far more. (CARs – Clinician, P2)</td>
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<td>(Barrier or Facilitator)</td>
<td>I would imagine that some practitioners might not always say what they otherwise might've said…. think it will, if anything, probably get practitioners to be very correct in what they say, which you may argue is actually quite a good thing. Maybe they may choose their words very carefully. (CARs – Administrator, P18)</td>
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<td>Quality or nature of the interaction</td>
<td>But you do have the potential that you remove some of the human interaction. Let me run through the checklist. I will answer of each of your ten questions which are down there and that's fine... and that's with anything where you've started to get too much structure in a doctor/patient consultation. (QPLs – Clinician, P2)</td>
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<td>(Barrier)</td>
<td>Well if I'm having a conversation with someone and I know I'm being recorded, either audio recorded or video recorded, I think I'd probably behave differently than if I'm not. Not vastly different... I think I would still convey the same information I think it's probably more formalised and less personal actually. (CARs – Clinician, P11)</td>
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<td>Would it affect the quality of the interaction? So if that's an intimate sort of session between the professional and the patient and that [its] big brother….. recording it does it sort of have a perverse effect on the quality of that exchange... It could, I’m not saying it would but it could. (CARs – Administrator, P7)</td>
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<td>Rapport or the relationship</td>
<td>I wonder whether it does increase satisfaction and trust of the clinicians?…you know if the clinician is willing to be recorded, then it may improve confidence in what they’re saying - that they’re not going to be trying to pull the wool over their eyes. (CARs – Clinician, P6)</td>
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<td>(Barrier or Facilitator)</td>
<td>I think it does once again put a relationship on a back foot quite early on. Like if I can imagine how I would feel if someone came in and the first few things they said to me was, “I’m going to record this” and I’d be like oh okay. I think we link that negative stance… Yeah I think it does change relationship a little bit. I’d be a little bit put off at the start. (CARs – Clinician, P22)</td>
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<td>I guess that can be a bit more confronting if patients are asking you up front about prognosis and are they going to be cured. (QPLs – Clinician, P13)</td>
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<td>Sub-themes</td>
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<td>Patient benefits (Facilitator)</td>
<td>But from a patient point of view it’s often quite good because they do get a chance to have that demonstration of what questions that might be useful thing to ask. (QPLs – Clinician, P3) When people get a shock diagnosis or shock news they can forget some of these so I think it’s a good prompt for patients and for clinicians to make sure that you’re addressing these very valid and common concerns. (QPLs – Clinician, P13) The good thing is that the patient can then take it away and revise what’s been said and actually have a chance to go over it because there’s often a lot of confronting information to generate and acquire in a very short period of time.’ (CARs – Clinician, P3) We know that patients will probably only pick up a handful of the information you give them therefore, it gives them a chance to review that. Also as well they can ask a relative to come along as …that can work both for their own information. (CARs – Clinician, P2)</td>
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<td>Usefulness/value (Barrier or Facilitator)</td>
<td>Advocating for the end user is going to be so important because healthcare is notorious for being completely unable to understand the experience of the end user. So they will say we think this is great for our patients. We’re going to develop this information, it’s going to be amazing and then of course there’s no uptake because it’s not what they want to do in the first place. (QPLs – Administrator, P12) I guess I’m not sure there’s a requirement to audio-record. I then wonder who’s going to sit back and listen to an entire conversation again...It would be good if there was some sort of literature or something to demonstrate that it was useful. Then I would be convinced of the utility of it. (CARs – Clinician, P11)</td>
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<td>Scope and development (Barrier or Facilitator)</td>
<td>If the patient has a question and it’s legitimate….we need to address it so…regardless of you know whether you think it’s relevant or not … What you think they want to know may be different to what they want to know. (QPLs – Clinician, P10) I can tell you that some cultural groups will go ballistic if they find that their parent for instance is being given a list of questions to ask the doctor about the cancer when they when their opinion is in fact that the patient should be asking a minimal number of questions. (QPLs - Clinician, P20) I am querying is it the patient who’s asking for this ability to record or is it their accompanying relative?… I agree as long as the patient is truly making that decision autonomously and it’s not really under the duress of an accompanying relative. (CARs – Administrator, P21) I think one needs to go into a thing like this with some care and some thought and probably ensure that this is something agreed to by both the practitioner and patient. (CARs – Administrator, P18)</td>
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Table 5  
Sub-themes for one size doesn’t fit all.

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<td>Relevant to clinical situation (Barrier or Facilitator)</td>
<td>What it can lose is some of the more complex stuff that what I try and discuss which is more individualised to a specific case which won’t be on a prompt list. (QPLs – Clinician, P3)</td>
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| Choice of use/optional (Facilitator)                           | Probably putting together, formulating an appropriate list for the various permutations of clinical scenarios. (QPLs – Clinician, P17)  
There are some patients who are particularly anxious or there are certain circumstances where you may not want that recorded. So it may vary depending on which patient you see. (CARs – Clinician, P10)  
It’s not a one size fits all and I don’t think therefore that we should have a general policy that says yes we’re fine with this. I think it should be that individual. (CARs – Administrator, P21) |
| Unintentional consequences (Barrier)                           | I think it needs to be clear that this is a list of things you could ask but it’s really up to the patient and the family to decide what out of these they want to ask. (QPLs – Clinician, P20)  
I think ultimately an optional thing which would be good. I think it would allow people who did want to take a more active approach to get involved but look it’s not for everyone. I don’t think it’s for really for everyone. (QPLs – Clinician, P22)  
You can say to the patient, bring your iPhone in fact you can just record on it that’s fine...Just record on it yourself. Take it if that’s what the patient wants. (CARs – Administrator, P18)  
It should probably be an opt-in process rather than an-opt out process... I mean something that we that we offer and say you know we benefit rather than making it standardised. (CARs – Clinician, P22) |
| [Patient] they’ve always listened to what their doctor’s said and never questioned anything and to actually you know to be given questions and you know think about that, that might create some anxiety. (QPLs - Clinician, P22) | I think we need some sensitivity about the psychological, whether something’s going to cause psychological trauma to patients. (QPLs – Clinician, P20)  
There’s obviously a different group of patients who are much more autonomous, who are much have much more involvement in their treatment decisions but I don’t think we should underestimate that some people find it stressful to be involved in receiving and making decisions about their care. (CARs – Clinician, P10)  
To go home and replay over and over ad nausea, this death sentence that in their own minds they’ve received is not good for their psychological or psychiatric health and wellbeing ... there will be particular patients where it would not be helpful. (CARs – Administrator, P21) |
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| Consent (Barrier or Facilitator) | Ensure that this is something agreed to by both the practitioner and patient…[Patients] have to in some way sign that they’ve received the recording with some provisions or request that they don’t hand it out to everybody or reminded of their own obligations… (Administrator, P18)  
I think everyone has rights within that consultation. You have to consider each individual’s rights. (Clinician, P6)  
Those who are very afraid of this will refuse to participate in it. (Clinician, P1)                                                                                                                                                                                   |
| Medico-legal (Barrier)           | I think [from] what my experience would be of patients wanting to record is getting a feeling that they are somewhat distrustful of the health provider. (Clinician, P16)  
I could almost guarantee that the biggest issue is going be around the medico-legal questions and doctors would need to be reasonably persuaded that the different legal requirements are met and that there aren’t any further implications to that. (Administrator, P18)  
With all the litigious claims and things which seem to be increasing clinicians would probably be nervous about. (Clinician, P10)                                                                                             |
| Anxiety (Barrier)                | I have to say from a theoretically I can see that it should be fine but personally it frightens me and I guess that… it causes me anxiety. (Clinician, P6)  
[AR used for legal purposes] I think objectively and realistically that’s probably not highly likely but you know it’s a little bit of paranoia…or anxiety. (Clinician, P11)                                                                                         |
| Logistics of recording (Barrier) | There’s the logistic aspects of ensuring that it’s easy for the hospital to keep a copy of the audio-recording and store it. (Clinician, P2)  
It’s like giving them the record and saying… do we keep part of the record? Because if we do, it’s a whole new issue to keep audio recording and how do we attach it to the record which… will be a process which most hospitals I don’t think have readily in place. (Administrator, P18) |
| Limit(less) boundaries (Barrier) | [Consultations] I can think of a couple that I wouldn’t want circulating in in cyber space… That is an issue. (Clinician, P17)  
So much can be done with information these days you know…. you can take you can take a little section of it. You don’t have any control over that information. (Clinician, P6)                                                                                           |
### Table 7

**Question prompt-list findings.**

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| **Gathering information**                       | [QPL] Usually used by patients that are more information-seeking… there’s a clear difference, there’s a group of patients who you know have searched and spent hours on the internet searching for information and spoken to friends and quite possibly, gone and got second opinions and come with lots of questions and they want as much information as possible. And then there’s other patients that basically really don’t want very much information, they just want a summary and then they want to know what I would like them to do and then that’s it. (Clinician, P11)  
[Current patients] if they do bring in a list, it often means that the consultation is much more organised. I think it empowers the patient as they feel that they’ve got control and that they are directing the interview sometimes rather than the doctor. (Clinician, P5) |
| **Existing strategies**                         | The question list I think is a good a good idea but I would really say that this should be part of written information to patients. (Administrator, P18)  
Personally have a checklist that’s in my head that of commonly unasked questions that patient’s invariably have because after a while there are the same talks. (Clinician, P22)  
I find people come in with their list and at the end of the consultation they say right I’ve just got to look at my list ah you’ve answered everything. Pretty common. (Clinician, P17) |
| **Communication fundamentals**                  | It’s what position you start from isn’t it. So from a lowest common denominator point of view, do I think it’s good to introduce? Yes. Would I hope that a lot of the staff, particularly the senior staff in this building, would pre-empt a lot of those questions? Yes…I might be old fashioned but because I think that a lot of things that are sometimes on the prompt sheets ….I think if we aren’t educating junior doctors that they should be on top of all that stuff anyway. (Clinician, P1)  
[Doctors] I think some do it better than others. I that’s all I’m saying depending on their experience and the nature of the patient…I think it goes back to are doctors good communicators? That's really the question that that precedes all of this, isn't it? (Administrator, P21) |
| **Question specificity**                        | Would you have a generic one for a cancer consultation? ….and it has the potential to become more and more specific and that’s going to be the issue of what is the appropriate level to have for each consultation. (Clinician, P2)  
Then working out what’s important to them and what’s important to their clinical situation. You might end up with a lot of questions that that doesn’t apply to you [patients]. (Clinician, P3) |