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Experiences of patients and health care professionals on the quality of telephone follow-up care during the COVID-19 pandemic

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BMJ Open Experiences of patients and health care professionals on the quality of telephone follow-up care during the COVID-19 pandemic: a large qualitative study in a multidisciplinary academic setting

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ABSTRACT

Objective To evaluate the perceived quality of follow-up telephone consultations (TCs) from the perspective of patients and healthcare professionals (HCPs) of multiple medical disciplines during the COVID-19 pandemic.

Design A qualitative study using semi-structured interviews and reflexive thematic analysis.

Setting Seven medical disciplines (general dermatology, dermato-oncology, head and neck oncology, internal medicine, medical oncology, gynaecological oncology and surgical oncology) at a large university hospital in the Netherlands.

Participants Patients who received and HCPs who provided TCs as a substitute for outpatient follow-up appointments during the COVID-19 pandemic. Results Eighty-two patients and 58 HCPs were interviewed. Predominantly, patients and HCPs were satisfied with the quality of care by TCs. They regarded TCs as efficient, accessible and of acceptable quality, provided there was an established patient-HCP relationship, medical complaints were absent and physical examination was not indicated. However, most patients were worried about the accuracy of their health assessment in the absence of physical examination and non-verbal communication. Both patients and HCPs wish to use TCs in the future alternatively with face-to-face consultations.

Conclusion This study concludes that TCs seem a valuable contribution to the context of follow-up care and could partially replace face-to-face consultations. TCs can be performed in stable, chronic patients with whom a doctor-patient relationship has already been established. Face-to-face consultations are considered more appropriate in the case of new patients, challenging or emotionally charged consultations and when clinically relevant physical examination is indicated. Due to the context-dependent nature of experiences of patients and HCPs, TCs should be used with an individually customised approach based on patient and disease specifics, in which shared decision-making plays an extensive role. Before major implementation is considered, sufficient data on the

Strengths and limitations of this study

- This is the first large-scale multidisciplinary study to qualitatively investigate the experienced quality of telephone consultations in follow-up care, from the perspective of patients and healthcare professionals.
- The involuntary character of this experiment provides a maximum variation sample.
- Use of validated quality and implementation concepts ensure the relevance and applicability of the
- Maximum variation sampling of participants and maximum reflexivity due to a diverse research group reveals empirical and general insights into the participants' perspective.
- The exceptional COVID-19 circumstances could have influenced the participants' opinions and could limit the extrapolation of these data to the nonpandemic context.

safety regarding missed diagnoses or cancer recurrences should be assembled first.

INTRODUCTION

The COVID-19 pandemic required hospital organisations to reduce physical contact between physicians and patients and to reorganise public healthcare immensely. Regarding chronic and non-life-saving care, a difficult trade-off had to be made between the risk of exposure to COVID-19 and the necessity for a physical hospital visit to assure adequate patient follow-up care. This drove innovation in ways in which follow-up care was provided. One of these ways was by means of telephone consultations (TCs).



Studies have shown that costs of healthcare rise due to an increasing frequency in outpatient appointments. Telemedicine has been suggested to improve the efficiency of outpatient follow-up and also appeared to be a suitable tool for follow-up outpatient care in various chronic and oncological conditions. ²⁻⁴ In patient surveys, the possibility of fair communication, 5 high patient satisfaction and confidence in its quality were reported.⁶ ⁷ The absence of travel costs and benefits of time saving for patients have consistently been identified as predominantly important benefits compared with face-to-face consultations (FtFCs).489

Although TCs were increasingly used for low-risk conditions in the primary care setting, TCs were never harnessed on a large scale in secondary and tertiary care. 10 Concerns about ensuring patient safety by negotiations of clinical risk, uncertainty of diagnosis without performing physical examination, il impact on workload faced by healthcare professionals (HCPs), 12 lack of financial compensation for HCPs and legal restrictions and insurance issues¹³ 14 impeded implementation. Therefore, evidence on the quality and safety of TCs remained narrow. Studies replacing FtFCs with TCs are considered ethically questionable because of the fear of negative outcome on survival. The COVID-19 pandemic resulted in the abrupt replacement of nearly all face-to-face follow-up care and naturally realised this experiment.

Statistics about TC-associated efficiency and costeffectiveness grow. However, there is a gap in knowledge surrounding the patients and HCPs' perceived quality of care of TC for outpatient follow-up. Besides, patient characteristics and conditions that determine whether a TC is suitable remain unclear. The mandatory increase of the use of TC since the COVID-19 pandemic has offered a unique opportunity to take a critical look at the current structure of care. Not only now, but especially in the post-COVID era in which regular follow-up care will be scaled up again, the results of this multidisciplinary study could contribute to a guideline for implementation of TC.

The objective of this qualitative study is therefore to evaluate the perceived quality of follow-up through TC by patients and HCPs from multiple medical disciplines in the hospital during the COVID-19 pandemic.

METHODS

Design and setting

This qualitative study was conducted at a large university hospital in the Netherlands using semi-structured interviews with patients and HCPs from seven medical disciplines: general dermatology, dermato-oncology, head and neck oncology, internal medicine, medical oncology, gynaecological oncology and surgical oncology.

Data collection occurred during the COVID-19 pandemic over the period of May to August 2020. The Consolidated Criteria for Reporting Qualitative Research were used for reporting the characteristics of this study. 15

Researchers

The interviews were conducted by 14 student researchers (10 female, 4 male) who were in their masters' phase of medical school, supervised by physicians from the corresponding discipline. Student researchers had no prior experience with qualitative research interviews and were trained by a supervisor with extensive experience in interviewing and qualitative research. Training included several teaching sessions and taking at least two trial interviews using an interview guideline with peer feedback.¹⁶ No previous relationship between researchers and interviewees was established. Data were merged and analysed by six of the student researchers, under supervision of four senior researchers: two professors (one in Internal Medicine and one in Gynaecological Oncology), one epidemiologist experienced in qualitative research and one expert in qualitative research/policy making.

Participants

As the perspective of both patients and HCPs was sought, we included two groups of participants. Inclusion criteria for patients consisted of (1) follow-up care received via a TC instead of FtFC, (2) were able to understand and participate in verbal conversations, (3) were at least 18 years old and (4) Dutch speaking. With deductive purposive sampling, patients were preselected by treating physicians while maximum variation was aimed with respect to age, gender, clinical diagnosis and follow-up interval. Selected patients were contacted via email and telephone.

The inclusion criterion for HCPs was having conducted a TC as a replacement of an FtFC. Maximum diversity was attempted to be achieved and was based on gender, age and occupation (ie, nurse, nurse practitioner, resident or medical specialist). HCPs were contacted via email.

According to the theory of information power, having a broad aim of the study and the use of inexperienced interviewers requires a larger group of participants.¹⁷ When during two consecutive research meetings (per perspective) incoming interview data produced no new information for the constructed theories, information power appeared sufficiently strong and inclusion was discontinued.

Data collection

During the semi-structured interviews, open-ended questions were asked using a topic list as the interview guide. As a theoretical framework for the topic list, the six domains of healthcare quality (safe, effective, timely, patient-centred, efficient and equitable)¹⁷ and relevant aspects concerning implementation from the Tailored Implementation in Chronic Diseases Checklist¹⁸ were used. Examples of questions for patients were: "What is the goal of follow-up for you?" and 'To what extent was this goal achieved by TC?" Questions for HCPs were, for example: "How did you determine the health status of the patient?" and "When and for which patient is TC a suitable follow-up tool?" Topic lists were pilot tested and

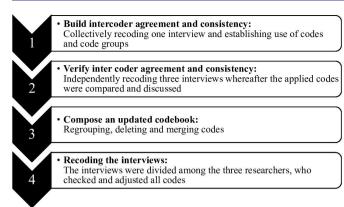


Figure 1 Four steps by which the data were systematically reviewed and recoded.

evaluated in weekly online research meetings. Adjustments were made accordingly.

One-on-one interviews were held in Dutch and lasted between 25 and 60 minutes. Patient interviews were held via telephone and HCP interviews with Microsoft Teams, audio only. Written consent was obtained from all participants prior to the interviews and reaffirmed verbally at the beginning of each interview. All interviews were audio recorded, transcribed verbatim and anonymised. Once transcribed, the recordings were deleted. Member checking was used for a proportion of the data.

Data analysis

The reflexive thematic analysis (RTA) framework by Braun and Clarke, 19 a method for systematically identifying, organising and capturing patterns of meaning across narratives, was used as an analytic guide for this study. Analysis was performed with the aid of ATLAS.ti, an electronic coding software.

RTA was completed in two cycles. In the first cycle, the codes were individually applied by the 14 student researchers. Through a shared codebook (per perspective), intercoder agreement was attempted. This codebook provided the base for the second cycle of analysis. After merging the data, six student researchers (three per perspective) systematically recoded all the data in four steps, as shown in figure 1. New codes, adjustments of codes and ambiguous codes and quotations were frequently discussed within the research group. Finally, the applied codes were randomly checked by the senior researchers to ensure intercoder agreement, quality of codes and to examine the influence of the student researchers on the collection of the data and the interpretation of the themes. By presenting summaries, visualising relations and discussions within the research group, themes were constructed from the data. During this process, deductive and inductive analysis were both used interactively²⁰: deductively, the data were interpreted from the theoretical knowledge of the six quality domains. With an iterative approach to the data, new insights emerged and these formed inductive themes. Themes were grouped based on their interconnection.

RESULTS Study population

A total of 82 patients and 58 HCPs, among whom 44 physicians and 14 nurse practitioners were interviewed. No dropout interviews were reported. Among the patients, 44 (54%) were female and age ranged from 26 to 84 years (mean: 59.1, SD: 14.7 years) and they lived at a distance from the hospital between 0.3 and 267 km (mean: 40.9 km, SD: 42.4). Regarding educational level, 17% of the patients had completed low, 40% medium and 29% high education. In 16% of the population, educational level was unknown. Patients were diagnosed with a broad variety of diseases as presented in table 1. HCPs were between 25 and 65 years of age (mean: 43.1 SD: 11.7 years) and 35 (60%) were female. Years of work experience ranged from 0.5 to 35 years (mean: 12.2 SD: 10.2), HCP's occupation is presented in table 1.

Themes

The experiences regarding the quality of TCs were classified within three interconnected themes: (1) individual, (2) interpersonal and (3) contextual. A fourth theme: future implementation was considered a separate category. (Sub)Themes will be explained and accompanied by quotes where relevant.

Individual

This theme concerned aspects of TC in relation to the individual patient or HCP. Within this category, four subthemes were identified: assessment of health status, well-being at the time of a TC, time management and job satisfaction (HCPs only).

Assessment of health status

For adequate health assessment, physical examination was believed to be essential by most patients and HCPs. Patients were concerned about the validity of HCP's health assessment via TC and subsequently some were insecure about their health status. To some patients, receiving a physical examination was the main purpose of their follow-up appointment, which made a TC not sufficiently effective for them. This was especially the case for oncological patients, who said they felt more vulnerable due to their life-threatening disease.

They just have to feel them [lymph nodes]. So, it doesn't help to discuss it, like... 'Do you feel anything?' I mean, I also didn't feel anything when I was primarily diagnosed. (Patient, gynaecological oncology, early 30s)

The necessity of physical examination was highly dependent on the medical discipline. Disciplines such as internal medicine and surgical oncology were able to rely on lab results and radiographic imagery for disease assessment. On the contrary, oncological dermatologists expressed not being able to perform any adequate assessments with TCs because of the visual and tactile character of their profession. The use of photographs partially

Disciplines	Patients: diseases (n)	Healthcare professionals occupation (n)
General dermatology	Eczema (6) Psoriasis (4)	Medical specialist (1) Resident (3) Research physician (1) Nurse practitioner (3)
Dermato-oncology	Basal cell carcinoma (2) Squamous cell carcinoma (3) Melanoma (6) Verruca seborrhoica (1) Skin tumour, unspecified (3)	Medical specialist (1) Resident (7)
Head and neck oncology	Laryngeal cancers (4) Pharyngeal cancers (8)	Medical specialist (3) Resident (5)
Internal medicine	Diabetes mellitus type 1 (6) Diabetes mellitus type 2 (5)	Medical specialist (4) Resident (1) Nurse practitioner (7)
Medical oncology	Mammary carcinoma (6) Neuroendocrine tumour (6)	Medical specialist (6) Nurse practitioner (2)
Gynaecological oncology	Vulvar carcinomas (2) Cervical carcinomas (2) Ovarian carcinomas (2) Endometrial carcinomas (3) Preventive therapy (BRCA1 carrier) (1) Granulosa cell carcinoma (1)	Medical specialist (5)
Oncological surgery	Sarcomas (5) Melanoma (2) Thyroid carcinomas (2) Merkel cell carcinoma (1) Mamma carcinoma (1)	Medical specialist (7) Physician assistant (1) Supervising nurse (1)

n=number of patients.

compensated for the absence of physical examination but was impaired due to poor quality of the photos. Patients however felt more assured, because the photograph functioned as an alternative to physical examination for them. Some HCPs considered physical examination overrated or pointless when recurrent disease cannot be treated curatively and was mainly performed for the patients' reassurance:

Most of the time, as doctors, we need to be honest and admit that the sensitivity of physical examinations is rather limited. Most of the time, if there is something to feel, it will be the patients themselves who first discover it. (HCP, surgical oncology, mid 60s)

Not being able to perform physical examination resulted in a feeling of uncertainty about potentially missed diagnoses or complications for some HCPs. The absence of non-verbal communication contributed to these concerns. Additionally, HCPs felt distressed because evidence on the safety of TCs had not yet been scientifically established.

You cannot see them [the patients] walking in. It is in their posture, and how fast they walk. Are they out of breath? Can you see whether they are nervous? The tears in their eyes, or how tense they are; these signs

reveal everything. How is their hygiene, do they neglect this or not? (HCP, surgical oncology, mid 50s)

Without a physical examination and non-verbal communication, HCPs felt they needed to put more emphasis on the verbal component of their consultations and actively engage patients in the conversation. Active questioning, however, did not always lead to sufficient information for the HCPs. Some patients reported they felt a greater responsibility to verbally describe their medical state or perform self-examination with TCs than with FtFCs. Patients who were experienced with self-examination (eg, those with a melanoma) felt competent to recognise abnormal symptoms. If HCPs felt any uncertainty about the disease status or if the patient said he/she did not feel reassured, patients were invited for an additional FtFC.

Time management

Patients referred to several time saving benefits of TCs: not having to travel to the hospital, not having to spend time in the waiting room, not having to take time off work and not needing to ask family members to accompany them. These benefits did not always outweigh the desire to have a face-to-face conversation with their HCP. This



contradicts the assumption of HCPs that patients would favour a TC because of these benefits.

As a patient you view that [saving travel time] differently; if you think it [a hospital appointment] is necessary and important, you just go to the hospital. Therefore, as a patient, I think that travel time is a less important factor. (Patient, medical oncology, mid 70s)

HCPs experienced more flexibility and easier time management using TCs. Most HCPs expressed that a TC consumed less time than an FtFC because of the absence of a physical examination and being able to multitask. However, some HCPs experienced the overall efficiency as less because of secondary FtFCs, when a TC was not sufficient.

Well-being at the time of a TC

Various patients who were asymptomatic at the time of TC said that if they were to experience complaints, they would not have been satisfied with a TC. This was mainly due to their desire for a physical examination and the need of face-to-face reassurance. For relatively healthy patients who had regular uncomplicated follow-up consultations, TC was mostly experienced as sufficient: both patient and HCP saw little added value of FtFCs under that circumstance.

Job satisfaction (HCP)

Several HCPs expressed lower job satisfaction with performing TCs. This was mainly due to the lack of face-to-face interaction with TCs, which was a large motivation for them to become a HCP.

I didn't become a physician to work in a call centre. (HCP, dermato-oncology, early 30s)

Interpersonal

Subthemes regarding the interaction and communication between patients and HCPs during a TC were categorised as interpersonal. Three subthemes were identified: mutual knowledge and trust, connection and transmission of information.

Mutual knowledge and trust

A previously established patient-HCP relationship was regarded as an absolute precondition for reliable communication during a TC by both patients and HCPs. HCPs found that managing patients who they had spoken to in person previously was easier because they could better assess the patient-specific needs and determine the reliability of the patients' answers. Some HCPs however still doubted the reliability of the patients' verbal information which they could not objectify with a physical examination or a heteroanamnesis as they would do during a regular FtFC. HCPs worried that some patients (intentionally or unintentionally) downgraded symptoms or withheld certain complaints/information. This was confirmed by some patients:

If he [the HCP] asks me what my weight is, then I can say 50 kilograms, you tend to round the numbers down a little, but if I stand next to them on the scale, there isn't the possibility to lie. Over the phone it is easier to fool someone. (Patient, internal medicine, early 70s)

Patients expressed that having met the HCP in a previous FtFC made them more confident and reassured about the received healthcare during the TC. Trust in the HCP and the provided healthcare was reinforced when HCPs mentioned to patients that in case of need or uncertainty, they would be welcome at the outpatient clinic.

Connection

Almost all patients felt they could express their concerns and did not feel a difference in the HCPs' empathetic ability over the phone. When looking closely to verbal expressions in communication during the interviews, TCs were described as more distant or business like, while FtFCs were referred to as easier and more reassuring. The feeling of reassurance was greatly influenced by the connection between patient and HCP. Lack of non-verbal communication seemed one of the most explanatory factors for these differences.

And when you do go see a doctor, after leaving you are a little more at ease. I can't explain exactly how that works. (Patient, gynaecological oncology, mid 70s)

Some patients were more hesitant to talk about death and sexuality during a TC than in FtFCs. Other patients however preferred a TC for speaking about these subjects:

I think talking on the phone might make it easier to communicate, because you don't have to look them (the HCPs) in the eyes. That is the difference I think. (Patient, internal medicine, early 60s)

HCPs considered the relevance of the connection between patient and HCP dependent on the nature of the consultation. Especially bad news conversations were considered inappropriate to be performed through TC.

Transmission of information

TCs were usually held one-on-one between patient and HCP. Including family or friends in the conversation through speakerphone was experienced as chaotic by HCPs and it impaired the communication with the patient.

If you go there [to the hospital] together, you both pick up on something [in the conversation]. When you talk about it [consultation] again afterwards, you have the feeling you remembered more. That is less the case with the telephone. (Patient, medical oncology, early 60s)

Another limiting factor in the transmission of information was the inability for HCPs to show scans or draw pictures in explaining disease patterns and handing out

It is good that when another scan is done, we can look at the images together [patient and HCP] And that I can also get an impression of where the tumour is and if it corresponds to my complaints. (Patient, medical oncology, early 60s)

Contextual: COVID-19

Both patients and HCPs were relieved that during the pandemic, consultations could be continued in the form of TCs. Some patients were anxious for a COVID-19 infection and wished to stay away from the hospital, which they considered a particular place of risk. Thus, the change to TCs was understood and accepted by the majority of the patients. Some patients expressed that they would prefer an FtFC in a non-pandemic situation. Other patients felt that after using TCs multiple times they would get used to it and appreciate it more. HCPs could accomplish more with TCs than they had initially expected. TCs forced HCPs to critically and individually prioritise care. HCPs identified the COVID-19 pandemic as a catalyst to re-evaluate follow-up care.

Implementation: customised care

Most patients and HCPs were positive about the use of TCs within follow-up care. They considered TCs to be patient-centred and an accessible way of delivering care. However, HCPs and patients felt there would always be a need for face-to-face interaction between patients and HCPs. In all disciplines, both HCPs and patients preferred a combination of FtFCs and TCs in follow-up care. Patients highly valued being engaged by the HCP in deciding on a TC or an FtFC for the next consultation.

Most HCPs felt the quality and efficiency of TCs could be better ensured when selecting patients based on, for example, the nature of the consultation, relevance of physical examination and patient and disease characteristics. Some HCPs felt that with profound selection, full-fledged care could be delivered. Figure 2 shows an overview of characteristics as a basis for the selection of patients. HCPs commented that these circumstances are multifactorial and an individual decision is necessary.

The decision as to whether a telephone consultation takes place depends on the patient themselves, their treatment, situation, residence and network surrounding them. There are too many factors in order to be able to say: yes, this patient surely has to be on the outpatient clinic or whether the problem can be solved through a telephone consultation. At least in my opinion, there isn't a recipe saying: "following these criteria, this must happen." (HCP, medical oncology, early 60s)

DISCUSSION

The insurmountable switch from FtFCs to TCs for follow-up care during the COVID-19 pandemic presented

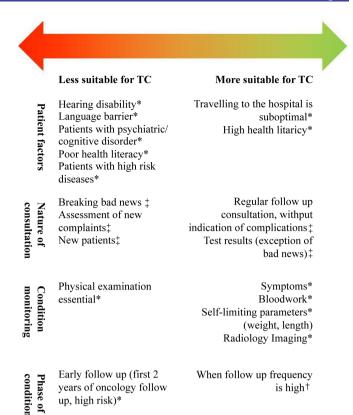


Figure 2 Spectrum of suitability for telephone consultations (TC) in follow-up care. TC *quoted by healthcare professionals (HCPs), † quoted by patients, ‡quoted by both HCPs and patients.

a unique opportunity to explore the actual experiences of patients and HCPs with this method of interaction. Patients as well as HCPs describe experiences regarding TCs both positive and negative that are highly dependent on the character and specific circumstances of the consultation. Predominantly, patients and HCPs were satisfied with the provided care by TC. As eluded from 140 interviews with patients and HCPs from a variety of medical disciplines, TCs are considered suitable for stable, chronically ill patients with whom a patient-HCP relationship has already been established, and in those for whom travel is a major barrier. Additionally, FtFCs are considered more appropriate in the case of new patients, bad news conversations and when clinically relevant physical examination is required.

Studies performed in primary care prepandemically show similar results: McKinstry et at^{21} describes the importance of a previously established patient-HCP relationship, allaying concerns regarding the trust in the physician and accuracy of the patients' verbal information. A systematic review by Carillo de Albornoz et at^{22} shows TCs to be as effective as FtFCs in primary care and considers TCs best for patients with chronic conditions who require regular medical follow-up, which also imbricates our study population. This review²¹ also describes patient satisfaction with TCs to be high, but patient experience appeared to be better with FtFCs. With our qualitative approach, we

Stating the obvious and as described in previous research, the absence of a physical examination led to a lower perceived quality of care by most patients and HCPs, making patients feel anxious about the proper assessment of their clinical status.²³ What stands out are the differing opinions: while for example interviewed dermatologists plea they cannot execute their jobs without physical examination, other doctors state that they can easily go without physical examination as long as other ways to monitor the clinical status are available, as shown by previous studies. 2 24 25 The role of physical examination to reassure patients in follow-up care has been discussed by Zaman et al,26 who concluded it to be a patient-centred and intimate ritual of positive attribution to the patient-HCP relationship. In a survey study by Kadakia et al,²⁷ patients with cancer appraise both the pragmatic and symbolic aspects of physical examination, which confirms our findings that especially oncological patients are more likely to value physical examination: a decreased sense of reassurance is directly associated with reduced perceived quality of care. For this specific group, the benefits of TCs did not outweigh the value of being able to physically attend a follow-up appointment, shining a new light on the literature thus far. In addition, some HCPs in our study mentioned using physical examination for reassurance of patients rather than for diagnostics. The role of physical examination therefore seems ambiguous for both HCP and patient. Nevertheless, reassurance seems to play a crucial role, especially in oncological care, and yet seems to be better accomplished face-to-face. We discovered that purely the option for an FtFC after a TC contributes to the reassurance of both patient and HCP.

Although TCs have been shown to be shorter in time per consultation in other studies, ²⁸ ²⁹ HCPs in our study stated that efficiency can be compromised when patients come to the hospital for an additional FtFC after an unsatisfactory TC, which was previously shown by McKinstry et al. Since, in the first place, the demand for TC in highincome countries partly arose from the aim to drive up efficiency and lower healthcare costs, 30 31 it is questionable if these goals can be achieved at present. To ensure efficiency, proper and adequate selection of patients in whom a TC is most likely to be successful, is therefore crucial.

Until this day, virtual care has predominantly been studied through satisfaction questionnaires in order to achieve some form of quantification. 32 Most studies show promising results when it comes to the future of TCs: higher levels of patient satisfaction have been reported for TCs compared with FtFCs.³³ Byravan and Sunmboye³⁴ found that 23.5% of patients would have preferred FtFCs, but 43% of patients would not mind conducting all

future appointments by TC, as was assessed by questionnaires. In our study, however, many patients and HCPs preferred FtFCs, and provided reasons and explanations, which amplified the complementary value of a qualitative approach. Harris and Brown³⁵ empathise that consensus and consistency statistics are generally weak between these two research methods. Qualitative research enables a deeper, more layered, analysis that addresses topics that would be missed, never addressed or underestimated by questionnaire exploration. An example of this depth are patients mentioning to feel a greater responsibility to appear better verbally in a TC. Also, the expression of lower job satisfaction with performing TCs by several HCPs and the lack of human-to-human interaction during TCs demonstrates the added value of this study's approach.

Strengths and limitations

This is the first large-scale qualitative study within this subject with a multidisciplinary approach executed by a diverse research group to establish maximum reflexivity. The use of validated concepts for the qualitative analysis ensured that discussed subjects were relevant to patients and HCPs. The involuntary character of this experiment can be seen as a strength regarding exploring the experiences with TCs: many patients admitted that after an initial hesitation or resistance they eventually concluded to be convinced of TCs. For example, Beaver et al³ noticed a preference for clinical examination and FtFCs as reasons for refusal of participating in their study, leading to a highly selected population biased towards patients favouring TCs. This might explain the difference with our results and highlights our added value compared with previous studies. The rapid setup provided in-depth information about the participants' first experiences, and presented limitations: participants were aware that TCs were performed for their own safety and were therefore possibly more accepting than in non-pandemic times. In addition, interviews were conducted by inexperienced interviewers, which, despite interview training sessions and using a shared topic list, could have resulted in varying interview quality. However, with our large population information power appeared strong and it is unlikely that this has led to missing relevant information. The majority of the specialties (5/7) concerned oncological related care, which resulted in a less diverse multidisciplinary approach. Lastly, it is important to mention that safety has not been investigated in this study, at best the perceived feeling of safety has been explored.

Implications

TC and FtFC should be seen as two different forms of consultation, both unique in nature and irreplaceable by the other without compromising on experienced quality. TCs will provide a limited, nonetheless valuable part of care. The transformation to this hybrid form of outpatient consultation brings challenges that can be overcome with thorough research and attentive implementation. When



considering follow-up care to be performed through TC, the optimal form of care should be based on patientspecific and disease-specific issues and should be chosen together with patients. It seems important not to overlook the fact that shared decision-making concerns the content (eg, what is the value of physical examination for this specific patient) and the manner of the follow-up (can TCs be alternately used with FtFCs and which frequency suits this patient best?). This hybrid form can be flexibly used to provide tailored care for the individual. One could consider the use of TC as a low-threshold screening instrument. For some patients, this 'screening TC' may lead to an additional FtFC to still perform physical examination. In others, efficiency is increased for both patient and HCP as TC appears to be sufficient and FtFC can be postponed.

Future research should specifically focus on the safety of TCs using quantitative research methods, where benefits of TCs can be weighed up against potential risks of missed diagnoses. Additionally, future research could focus on asking HCPs before and after whether the consultation could have been virtual or not. This might give an indication of the potentials of TC, and how well this can be estimated in advance. The interviews with HCPs suggest that this can be challenging.

In our interviews, many patients showed curiosity towards implementation of video consultations (VC) to possibly alleviate the lack of non-verbal communication. Barsom et al' found that, according to previous studies, almost half of the patients preferred VCs over TCs to communicate with their surgeon because of the benefits of providing visual feedback. A qualitative study on VCs in primary care by Donaghy et al, 4 additionally found that these visual cues increased patients' confidence in the consultation. However, Hammersley et al³⁶ reported no significant differences between TC and VC regarding consultation quality. The equivalent quality and VC not offering added value or expecting a short call without unforeseen news might play a role in the potential irreplaceability of TCs by VCs.

CONCLUSION

With the rise of the digital age, the healthcare industry is also increasingly exploring alternative methods aiming to deliver more patient-centred and efficient care. This presents the idea of a healthcare system in which remote consultation is expected to become the norm. According to the experiences of our participants, transition to solely remote care by TCs is undesirable because the need for face-to-face interaction will continually persist. These conclusions are based on the perceived quality of care, while the actual safety of TCs has not been established yet but remains the paramount goal of care. Nevertheless, TCs have also shown promising beneficial elements. Thereby, used with a customised approach, taking contextual factors into account and alternating with FtFCs,

TCs were considered a valuable contribution to current follow-up care.

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