RESEARCH



Being an older hospitalized patient during the COVID-19 pandemic - A qualitative interview study

Ann-Sofi Östlund¹, Julia Högnelid¹ and Annakarin Olsson^{1*}

Abstract

Background Older people hospitalized for COVID-19 are a vulnerable group due to the disease itself, aging and often loss of hearing and vision. Person-centered care, where patients have opportunities to communicate and participate in their own care, is important. However, because healthcare staff needed to wear personal protective equipment during the pandemic, to protect the patients and themselves, providing person-centered care was often difficult. This study aims to describe older hospitalized patients' experiences both of being cared for, while having COVID-19, and of the care provided by healthcare staff wearing PPE.

Methods Fourteen older patients, over 65 years of age, were interviewed, and the data were analyzed using qualitative content analysis. The study adhered to Consolidated criteria for reporting qualitative research guidelines.

Results Three subthemes and one overall theme, *"The desire for survival overshadows difficulties"*, emerged in the analysis. The main findings revealed that the older hospitalized patients experienced the care they received from the healthcare staff as satisfactory. The older patients reported understanding and accepting that the pandemic situation meant that their ability to participate in their own care and communicate with healthcare staff were given lower priority.

Conclusions Older hospitalized patients need to be provided person-centered care, and situations such as a pandemic are no exception. Care tasks that are not acute in nature, e.g., planning for patients' return home, could be conducted by healthcare staff not required to wear PPE.

Keywords COVID-19, Experiences, Hospitalized, Older patient, Personal protective equipment (PPE), Qualitative

*Correspondence: Annakarin Olsson annakarin.olsson@hig.se ¹Faculty of Health and Occupational Studies, Department of Caring Sciences, University of Gävle, Gävle S-801 76, Sweden



© The Author(s) 2023. **Open Access** This article is licensed under a Creative Commons Attribution 4.0 International License, which permits use, sharing, adaptation, distribution and reproduction in any medium or format, as long as you give appropriate credit to the original author(s) and the source, provide a link to the Creative Commons licence, and indicate if changes were made. The images or other third party material in this article are included in the article's Creative Commons licence, unless indicated otherwise in a credit line to the material. If material is not included in the article's Creative Commons licence, unless indicated otherwise in a credit line to the material. If material is not included in the article's Creative Commons licence and your intended use is not permitted by statutory regulation or exceeds the permitted use, you will need to obtain permission directly from the copyright holder. To view a copy of this licence, visit http://creativecommons.org/licenses/by/4.0/. The Creative Commons Dublic Domain Dedication waiver (http://creativecommons.org/publicdomain/zero/1.0/) applies to the data made available in this article, unless otherwise stated in a credit line to the data.

Background

Older people infected with SARS-coronavirus-2 (COVID-19) are at higher risk of becoming seriously ill and are often in need of extensive care. During the pandemic, healthcare staff had to quickly adapt to meet the need for care, while being forced to protect themselves and patients against the virus by wearing different kinds of personal protective equipment (PPE). The use of PPE has an impact on the communication and contact with older hospitalized people.

Nearly seven million people have died worldwide, due to or while infected with COVID-19 [1]. In Sweden the corresponding figure is around 17,000, and most of these people were between 60 and 90+years of age [2, 3]. Older people were more likely to become seriously ill and to die from COVID-19 [4]. For most people with COVID-19, self-care at home is sufficient [5], but in some cases hospital care is required. If hospital care is needed, the patient must be isolated so as not to transmit the infection to other patients and/or healthcare staff and the healthcare staff needed to use PPE [6, 7], such as surgical masks, gloves, goggles, glasses, face shields, gowns, and aprons in the care of the patients. Patients infected with COVID-19 who have been cared for by healthcare staff wearing PPE have described both positive and negative effects [8] on the contact and communication between themselves and healthcare staff.

Isolation of hospitalized patients with COVID-19 has been used globally to decrease the spread of the corona virus. In previous studies, being cared for in hospital and being isolated has been shown to be a negative experience for patients, causing emotions such as fear, panic, helplessness, death anxiety and loneliness [9-12]. Furthermore, having other patients in the same room [11] as well as beeping monitors was also experienced as a distraction while the patient was in isolation [11]. It has also been shown that patients feared infecting others, which led to feelings of guilt [11, 13]. Such experiences may create difficulties in communicating with healthcare staff in a satisfactory manner [14]. The communication difficulties described were also due to patients' perception that the environment was stressful for the staff [11, 14], language barriers and a feeling that staff were afraid of becoming infected if they spent too much time with patients [14]. Difficulties communicating with healthcare staff may also exist because the disease causes patients to lose control of their own body and begin to doubt their own judgment as well as the body's signals [13].

Older people should be provided with person-centered care (PCC) [15, 16], and patients' needs, and wishes should be considered. This means that, as far as possible, patients should be given opportunities to be involved in the decision-making, priorities, care, and treatments that are carried out to promote their health [17–19].

One prerequisite for PCC is thus good communication between healthcare staff, patients, and relatives [20, 21]. Older fragile people receiving hospital care want good communication with healthcare staff; this entails staff giving them information about their condition and listening to them [22]. According to older people, obstacles to good communication include e.g., hearing loss or other health problems [23, 24]. Such problems may mean they cannot participate by being part of the decision-making process to the extent they wished, particularly when too many people are involved in their care, healthcare staff are stressed, care sessions are short and there are language barriers [24, 25].

Very little is known about the consequences of being an older hospitalized person and being cared for by healthcare staff wearing PPE during the COVID-19 pandemic [8]. Gaining insight into older patients' experiences of challenges associated with participating in their own care and communication, in accordance with PCC, with healthcare staff will give a broader picture of what factors may contributed to good PCC. Such knowledge is also important in enabling healthcare professionals to improve and individualize their support to older patients in the event of a new pandemic or other care that requires staff to wear PPE.

Methods

Aim

The aim of the present study is to describe older hospitalized patients' experiences both of being cared for while having COVID-19 and of care provided by healthcare staff wearing PPE.

Study design, participants, and setting

In the present descriptive qualitative study, semi-structured interviews were conducted between April and August 2021 in Sweden with fourteen participants, selected using convenience sampling. Due to the COVID-19 restrictions in effect at the time, interviews were held over the telephone. The target study population consisted of older people, 65 years of age or older, who had been hospitalized for COVID-19, cared for by healthcare staff wearing PPE and been discharged from hospital to their home for a maximum of three months. Exclusion criteria were experiencing cognitive decline, inability to communicate using spoken language or receiving palliative care. The participants were recruited from one regional hospital in central Sweden, on a ward where older people with COVID-19 were cared for. The hospital, one of six in the region, has several medical specialties (i.e., medicine and surgery departments for both adults and children, psychiatry, orthopedics, emergency and intensive care, childbirth, etc.) The ward where the participants in the present study were recruited has 12 rooms and 16

beds. During the day shift, a doctor with geriatric specialist skills, two junior doctors, three nurses, four assistant nurses, a physiotherapist and an occupational therapist worked on the ward. Two nurses and two assistant nurses worked the night shift.

The study involved six women and eight men (age range 65-83 years, median age 73.5 years). The participants were cared for at the hospital for a period of between two and 21 days, with a median length of stay of nine days. The PPE used by the healthcare staff were surgical masks, gloves, goggles, glasses, face shields, gowns, and aprons. The setting is a geriatric ward, an inpatient ward with isolation, and a gateway to each room. The patients were not allowed to leave the room, where oxygen support/treatment was available. No patients were intubated on the ward. If intubation was required, they were moved to a higher level of care (intensive care unit; ICU). In some cases, patients had previously been treated at an ICU, but when ICU care was no longer necessary, they were moved to the ward under study. In some cases, they were only treated on the present ward, but if their condition deteriorated and they needed intensive care, they could be transferred to a higher level of care (ICU). At the hospital, the patients were isolated so as not to spread the infection. Visitors were typically prohibited, but some exceptions could be made.

Data collection procedure

The care planners (two registered nurses) on the ward were asked to assist in identifying suitable participants who met the inclusion criteria; after doing so, the care planners passed the information on to the author responsible for data collection (blinded for review). The author visited the ward and gave the potential participants verbal and written study-specific information and a written consent form, as well as a return envelope. Potential participants who agreed to be contacted by telephone for enquiry were informed that the author would call them approximately two weeks after their hospital discharge to ask whether they wished to participate in the study. For those who agreed to participate, a time for the interview was determined by the participant and scheduled, preferably within two weeks after the telephone call.

Starting from the study aim, an interview guide was created to maintain consistency in the format of the interviews. This interview guide consisted of questions/ statements such as: *Can you tell us about your period of care at the hospital? Can you tell us about your experiences of being cared for by healthcare professionals who wore personal protective equipment? Feel free to describe a specific event. Tell us about your experiences of talking/communicating with healthcare professionals who wore personal protective equipment. Do you feel you were able to participate in making decisions about your care?* Responses were further explored using additional questions and probes. One pilot interview was performed to evaluate the interview guide for completeness, and if necessary, adjustments were made. After the pilot interview, questions regarding communication and participation were clarified. All subsequent interviews were performed by one author (blinded for review). The interviews lasted 35 min on average. Fieldnotes, notable in a telephone interview, were made to document, e.g., the person crying, laughing, or pausing.

Data analysis

All telephone interviews were recorded on an Mp3 and transcribed verbatim. The text was coded, and confidentiality was ensured by using fictitious names for people and places in the transcriptions. Transcripts were analyzed using qualitative content analysis inspired by Graneheim and Lundman [26]. First, meaning units, words and sentences were identified in the interview that were relevant to the study aim. The meaning units were then condensed, hence reducing the amount of text. The condensed meaning units were then labeled with a code that described the text in a few words. This concluded the manifest part of the analysis [26, 27]. The codes were interpreted and compared for differences and similarities, and tentative subthemes were abstracted. The subthemes were then summarized in one overall thematization, based on the underlying meaning [26]. Reflections and discussions were conducted in the research group to reach agreement on the subthemes and main theme [28]. The analysis, thus described as a linear process, was performed as a back-and-forth movement between the whole and the parts [26]. The interview fieldnotes were used in the analysis to deepen our understanding of the data.

Ethical considerations

The study was approved by the Swedish Ethical Review Authority (2021–01015) and implemented in accordance with the Helsinki Declaration. At the time of the interview, verbal consent was obtained, and the written consent was sent back to the author in the enclosed return envelope. There was no treatment relationship between the researchers and the participants prior to or after the study. All audio recordings, fieldnotes and coded data were saved on a password-protected server during the study project and only the researchers had access to the server.

Findings

The analysis revealed three subthemes and one overall theme: *"The desire for survival overshadows difficulties"*. The theme and subthemes are presented in Table 1 and in the running text with additional quotes (informant x).

 Table 1
 Subthemes and theme

Subthemes	Theme
Perceptions of successful communication	"The desire for
Surrendering to and trusting those who know	survival overshadows
Gratitude for the care provided	difficulties"

The experiences expressed throughout the narratives - the older hospitalized patients' disease state and their need for care - overshadowed other possible needs. Thoughts about how participation in care and communication worked when the staff were wearing PPE were of less importance: "The people [healthcare staff] who are best at this and know how to act and behave in this situation, so I think it's pretty easy to accept it, I think" (informant 12). The participants had enough trust in the staff to surrender themselves to them, because they needed care to survive. As one participant said: "They [healthcare staff] know what I need and I trust them 110%... I do... so I don't know if I could question how they care for me... no, because I don't know how I would care for myself" (informant 8). Another participant said "I listen to them completely... I've gone to the hospital to see people who can care for me... I trust in what they say" (informant 10).

Perceptions of successful communication

The participants reported that establishing contact for communication and identifying the staff wearing face masks was mostly accomplished by the staff introducing themselves by name and title when they entered the room or changed shifts or by looking at the name tags on the staff's clothes. One participant said: "the nurse came in and told me when they changed shifts so I would know who was who [among the healthcare staff]" (informant 8). It was also possible to identify the staff by their work tasks or through the window when they were not wearing PPE. The participants did not experience identification of staff as a problem. When the name tag was missing or covered, they just asked who the person was. Even if a staff member had introduced him-/herself previously, the participants sometimes had difficultly remembering the name owing to their own poor memory.

Most of the participants did not experience any obstacles to communication when the staff wore face makes, but felt it was the same as without PPE. Although PPE affected communication in some respects, making lip reading impossible and speech less clear, especially for the hearing impaired, the participants still felt that communication was good. They were able to hear variations in mood, such as joy and laughter. The participants also experienced a good connection with the staff; they understood what the staff said, despite the PPE, but their disease affected them: *"I understood what they [healthcare staff] said ... then how sick I was, that's another thing"* (informant 2). As far as the participants knew, they also mostly understood all the information given, especially when staff stayed in the room, took their time and talked for a while. The participants also experienced that the staff understood most of what they said, but sometimes they were not sure.

The participants reported not understanding everything the staff said when the staff used medical terms or when a staff member was not a native speaker of Swedish and was wearing a face mask. Communication difficulties were simply resolved by repeating the question or writing it down om paper: "Sometimes I didn't hear what they said, but then I just asked and they told me again" (informant 7). Furthermore, the participants reported accepting possible communication difficulties given the circumstances, meaning the staff needed to use PPE: "Sure it was a bit difficult to hear, but it was necessary [for staff to wear PPE]" (informant 10). The participants felt the staff did their best to facilitate and/or adjust the communication. They also reported that the staff seemed to have experience communicating with older patients and adjusting communication to the "right level" (informant 3). The staff were perceived to be "thinking about me" (informant 5), which was considered the most important.

Surrendering to and trusting those who know

The participants reported having been given opportunities to participate in the decision-making and planning of their care, and they did not experience any obstacles to doing so. They felt that the staff involved them by telling them what they were doing now and planning to do and what treatment they were planning to give. The staff asked the participants how they were feeling and the staff listened to them:" Yes, they [healthcare staff] constantly explained what they were going to do and were doing, it was fine, everything, nothing out of line" (informant 7). The participants also felt they had been given opportunities to participate in the decision-making regarding their care when staff encouraged them to ask questions and in other ways express their wishes. They also felt involved when they could decide what to do, for example, whether they wished to eat, rest, change rooms or positions/bed settings as well as when they were not forced to do anything. Although some participants did not always experience being involved in the decision-making or being able to make choices about the care or treatment presented to them, they nevertheless described trusting in the staff's knowledge and willingness to help. For these reasons, the participants were willing do what they were told and did not question staff decisions. One participant said that the caring staff: "knew what was best and knew the most, better than I do and I went to the hospital to get help and was grateful for any care I got" (informant 13).

Some participants mentioned that they, on some occasions, would have liked the staff to provide more

information. They would have appreciated knowing how they could increase their participation in the decisionmaking, change rooms or wards, when and if sharing a room was likely and if, when and how discharge was planned. They did not like being able to decide at what time they, for example, would take a shower. On the other hand, some participants reported not wanting to know all the options or be more involved or not knowing whether they were capable of being more involved; they were satisfied with the care provided. Others reported not always knowing whether their own wishes and decisions were considered, but also had not given it much thought.

The participants were cared for in either single or multibed rooms. Because the patients were in isolation, the staff could not always be present in the room. Regardless of whether the staff were present in the room, the participants experienced them as being available. The participants reported that the staff made time for them while in the room, often staying and talking for a while, which made the participants feel listened to. If they needed help or had any questions, they used the alarm button at their bedside and, in their experience, the staff were quickly in place in response to their call:"If you had questions you could press the alarm button" (informant 5). Some participants reported not always having opportunities to ask their questions, as the staff only stayed in their rooms for a short time. Sometimes the participants also experienced the staff just walking by when they were trying to get their attention by waving through the windows to the hallways. The participants also reported not wanting to bother the staff and waiting to ask or doing the task themselves. Situations when the participants had opportunities to ask spontaneous questions were during the physicians' rounds and when medications were distributed by the staff.

Gratitude for the care provided

The participants reported that the COVID-19 infection affected their state of health to such a degree that they sometimes not remembered details from their hospitalization. Several of the participants had earlier experiences of being hospitalized, but had never experienced anything like this disease: "I have never in my life been as sick as this... and I've had a heart attack and things, but this was worse" (informant 2). The participants said they accepted all the help they were offered, given how ill they were. They also said they accepted being at the hospital, because they would not have survived without hospital care.

The participants felt the care they received was critical to their survival, and they were very grateful to the healthcare staff. They also said the staff were "*amazing, polite and helpful angles*" (informant 8) as well as highly committed, accommodating, and conscientious in their work. The participants were very satisfied with the care they received and felt the caring staff had their "best interests" in mind (informant 14). They felt safe and believed the staff had the knowledge and competence required for their care. Furthermore, the participants expressed admiration for the staff for what they must put themselves through and for their ceaseless effort to encourage them when they did not always have the strength. They also reported that the staff made their period of hospitalization a positive experience, despite the difficulties associated with the disease. One participant said: "The staff are so good, unbelievably good and they must be exhausted but still so happy and considerate of their patients, because I'm sure many patients are difficult" (informant 10). Some participants mentioned that all staff had "a smile on their faces" (informant 14), even though they must have been exhausted due to their heavy workload.

According to the participants, it was the care they received that allowed them to survive the disease: "What about the care was I specifically pleased with... everything... they saved my life" (informant 3), and they fully understood why the staff needed to wear PPE while caring for them. Most participants knew about PPE before hospitalization, through the media and from relatives working in healthcare: "Well, I didn't think so much about it [PPE] more than what I'd seen on TV all the time" (informant 2). Some had been informed about it directly upon arriving at the emergency ward, and others reported not having reflected on it. The participants said they realized the staff were wearing the equipment to protect themselves as well as the patients. They appreciated knowing that the virus was not being spread. The participants reported not experiencing any differences in the care provided compared to previous hospitalizations, when PPE was not necessary. One participant said: "I didn't have any problem with it [the care] at all, it worked like normal but it was just that they wore face masks.... And a few had these rubber masks over their mouth, but no... I didn't find it odd at all" (informant 5). All participants understood that the staff had to wear PPE and accepted it, stating that it could not have been any other way: "There was nothing strange about it [the PP]... of course I understand that, if I'm lying there getting wonderful service, then they want to protect themselves, otherwise we'd have to share a bed... all lying there together " (informant 14). Some participants, however, found the PPE a bit strange and frightening, when only eyes were visible, but they got used to it. One participant said that it "made associations to war" (informant 4) due to the breathing gear. Some also reported feeling more exposed to the virus when the staff did not wear face masks, such as when the participants were being transported to other parts of the hospital for different examinations (e.g.,

X-ray). Furthermore, the participants expressed empathy for the staff who had to wear the PPE, because they saw them sweating, having trouble breathing, and trouble seeing due to condensation on the glasses attached to the mask or on a visor.

Most experiences of care provided were described by the participants as positive. However, one worry while at the hospital was whether they would need to share a room with other patients. As one participants said: "There were two of us lying there, if I passed the screen I was inside the other person's private sphere" (informant 4). They did not want to disturb the other patient by, for example, passing the screen between them. Moreover, the screen was blocking the view from the window. The other patient could also exhibit disturbing behavior, such as speaking loudly and often on the telephone. Furthermore, the other patient's condition could be worrying, if the participants noticed that he/she was very sick or that his/her survival was not certain. Other participants said they understood the situation (the need to share a room) and did not experience it as a problem. Some even reported appreciating the social aspect of sharing a room, provided they got along well with the other patient. Some participants felt that the isolation necessary to avoid spreading the disease was unpleasant, boring, and made them feel trapped because the room was small. Overall, being isolated was experienced as acceptable, but above all as necessary and understandable, natural, and not a problem. Some even appreciated the peace and quiet and the opportunity to decide on their own, for instance, what TV channel to watch.

Some participants reported that changing rooms and wards several times during hospitalization was disturbing, and they considered many of the changes unnecessary. Some also described feeling worried when they felt the staff were lacking in knowledge, for instance if a staff member seemed insecure when handling the oxygen equipment. Another disturbance mentioned was that treatment of other ongoing health problems was delayed owing to the limited space in the room. Another worry concerned when they were supposed to be discharged from hospital, was how things would work when they came home and whether enough preparation time would be given at the hospital to adjust to the situation.

Discussion

The present study showed that the older hospitalized patients were mostly satisfied with the care provided by the healthcare staff. Their experiences of being involved in decisions regarding their own care and communication were of lower priority, given the help and support they received from the healthcare staff, despite them wearing PPE. Communication was sometimes described as a problem when staff wore PPE, however, this too was over-shadowed by the pandemic situation.

Older people may suffer from various degrees of cognitive decline, due to sudden and/or temporary illness [4], thus such decline was an exclusion criterion in the present study. Previous research has shown that older people's participation in decisions regarding their own care is very important to strengthening and supporting, e.g., individual autonomy [17, 29]. However, in the present study, the older patients' ability to communicate and be involved in making decisions about their own care was thought to be of less importance compared to the help and support they received from the healthcare staff. Wu et al's., [30] study, involving hospitalized older persons, showed that they were generally satisfied with the care provided, something also found in the present study. Studies have shown that patients wished healthcare staff would have provided them with more information about their condition [11, 31] and that patient sometimes had doubts as to whether the treatment they received was tailored to them [11]. The nurses caring for the patients also experienced that, when patients received information about their condition, they were more likely to follow the nurses' instructions [31]. Data for the present study were collected during the second wave of the pandemic, which may have increased the participants' knowledge, awareness and understanding of the severity of COVID-19, thus affecting their experiences. In contrast, one study [32] showed that older people felt they had lost their dignity, autonomy and "sense of self" during hospitalization for COVID-19. Healthcare staff therefore need to pay attention to older patients' ways of expressing such feelings.

The significance of patient participation in nursing care has been described in several previous studies [33-35], and nurses also need to ensure older patients' participation, in accordance with PCC [16]. However, in the present study, the older hospitalized persons felt that being able to participate was less important than surviving the COVID-19 disease. It is more difficult for patients to engage with staff who are wearing PPE, which acts as an additional obstacle to communication [36]. Physical barriers such as face masks/visors may make it difficult for patients to communicate with healthcare staff [37], and even more difficult for patients with hearing and/or vision impairment [38]. According to older people, participation meant being a co-creator of their own care; it was founded on being treated with sensitivity and support, being told what was going to happen, taking responsibility, asking questions and being able to influence care [33]; many patients also felt that decisions were made for them prior to or during hospitalization. Working in PPE was also reported by healthcare staff to negatively affect communication between them and the patients [38, 40].

In the present study, being placed in a shared room with other patients was experienced both negatively and positively. Some experienced their private space as limited and were worried they might disturb the other patient by making noises (e.g., watching TV or talking on the phone). They also reported that "the seriousness of the disease (COVID-19) was more obvious" if the other patient was very ill. Others felt sharing a room gave a feeling of social togetherness. Previous research [41, 42] has shown that many patients prefer a single room, referring to the benefits of increased privacy, reduced noise (from both the other patient and staff caring for him/ her), improved sleep quality, preserving patients' privacy and autonomy to achieve greater control over their environment, and better communication with staff and healthcare workers. In contrast, a newly published systematic review by Bertuzzi et al. [43] showed that older adults preferred a shared room to avoid feelings of loneliness. The amount of time since the outbreak of the pandemic may have led to this result, thus making a shared room an opportunity for social interaction with others.

Nursing staff have stated that they lacked the training needed to care for patients with COVID-19 [44, 45], had an excessively high workload and that they needed to manage a situation they had never been in before. They often had to work with a shortage of staff and insufficient PPE [46]. Healthcare professionals have also stated that they were afraid both of being infected by the virus themselves and of infecting their relatives [31, 45, 47]. Studies, including healthcare staff wearing PPE (or performing various kinds of barrier care) while caring for older patients suffering from, e.g., Methicillin-resistant Staphylococcus aureus (MRSA), has shown that isolation may result in negative psychological effects including anxiety, stress, and depression, but may also result in patients receiving less or substandard care [48]. Personal protective equipment may also constitute physical barriers to effective communication with patients in isolation [49]. Even if isolation in many situations may be experienced as negative and intrusive, Shaban et al. [14] found, as in the present study, that isolation was appreciated because it gave greater trust in healthcare staff and their method of providing care.

Study limitations

One strength of the present study is the uniqueness of describing older hospitalized patients' experiences both of being cared for, while having COVID-19, and of the care provided by healthcare staff wearing PPE. A heterogeneous group of participants was included in the study owing to the use of convenience sampling. Thus, the study findings need to be interpreted in relation to some methodological considerations. First, because the results concern a small number of older people from one hospital in Sweden, they may not be transferable to a global population. However, the number of participants was adequate for the purpose of the present qualitative study. Moreover, the insights gained, and experiences reported are likely to be similar to those of other older hospitalized people cared for in other settings by healthcare staff wearing PPE. Another limitation that must be considered is the fact that additional attributes, that is e.g., medical information about the participants, may have increased the understanding of the results. The interviews were planned as soon as possible after the participants had been discharged from hospital, taking into account that they must be given sufficient time to recover. A weakness of the study may be that, of the 24 older patients invited to participate, only 14 agreed to do so. We interviewed the participants some weeks after discharge. This meant participants had to recall their experiences, which might have been difficult after having had COVID-19. Rather than this indicating a low rate of willingness to participate, it may reflect the problems experienced by this group during the pandemic. There is also a possibility that older patients who had a strongly negative experience of their hospitalization are unintentionally excluded in the present study. A way to overcome this limitation might have been to do a questionnaire survey, including all of the inpatients.

One researcher performed all interviews. To establish credibility, all authors read all the interview transcripts. Thereafter, the first and second author discussed the steps in the analysis to the level of codes, and then from the level of subthemes to overall theme, a discussion was held among all authors. Consensus concerning interpretation of the participants' experiences was achieved among all authors, assuring dependability. Data were collected by following an interview guide. To further strengthen credibility, quotes from the interviews were used in presenting the results. The Consolidated Criteria for Reporting Qualitative Studies (COREQ) checklist [50] was used as a guide to reporting the study.

Conclusions

The COVID-19 pandemic is set to continue to impact the way healthcare is delivered for the foreseeable future. The study revealed the importance of understanding how older hospitalized patients' experiences both of being cared for, while having COVID-19, and of the care provided by healthcare staff wearing PPE, hence the results play a significant role in improving care for older patients and provision of PCC. The fact that staff must always wear PPE in care encounters may entail that non-emergency care, for instance planning for patients' return home, might be neglected or not provided. A care coordinator might be employed to work with less acute tasks (that do not require healthcare staff to wear PPE).

Abbreviations

ICU	Intensive Care Unit
PCC	Person-centered Care
PPE	Personal Protective Equipment
COREQ	Consolidated criteria for reporting qualitative research
WHO	World Health Organization

Acknowledgements

The authors would like to thank the participants for sharing their experiences.

Authors' contributions

AO, JH and A-S Ö were responsible for designing the study, JH conducted the interviews, AO, JH and A-S Ö interpreted the data and drafted the text. All authors approved the final manuscript.

Funding

Open access funding provided by University of Gävle. This project has received funding from the Foundation in Memory of Ragnhild and Einar Lundström. The funds have been used for transcriptions of the interviews. Open access funding provided by University of Gävle.

Data availability

To protect participants' privacy and confidentiality, the data (transcripts) generated and analyzed for the present study are not available, but will be available from the corresponding author on reasonable request.

Declarations

Ethics approval and consent to participate

We obtained approval from the Swedish Ethical Review Authority (2021 - 01015).

The study is performed in accordance with the Declaration of Helsinki. Written informed consent was obtained from the participants.

Consent for publication

Not applicable for this study.

Competing interests

I declare that the authors have no competing interests, or other interests that might be perceived to influence the results and/or discussion reported in this paper.

Received: 21 April 2023 / Accepted: 4 December 2023 Published online: 05 December 2023

References

- World Health Organization. Statistics describing number of deaths from COVID-19. https://covid19.who.int/ Accessed 21 April 2023.
- Rosengren A, Lundberg CE, Söderberg M, Santosa A, Edqvist J, Lindgren M, et al. Severe COVID-19 in people 55 and older during the first year of the pandemic in Sweden. J Intern Med. 2022;292(4):641–53.
- Socialstyrelsen [National Board of Health and Welfare]. Statistics describing number of deaths from COVID-19 [Statistik över antal avlidna | covid-19] (Swe). https://www.socialstyrelsen.se/statistik-och-data/statistik/statistik-omcovid-19/statistik-over-antal-avlidna-i-covid-19/ Accessed 21 April 2023.
- Maniero C, Patel D, Pavithran A, Naran P, Ng FL, Prowle J, et al. A retrospective cohort study of risk factors and outcomes in older patients admitted to an inner-city geriatric unit in London during first peak of COVID-19 pandemic. Ir J Med Sci. 2022;191(3):1037–45.
- Mehraeen E, Hayati B, Saeidi S, Heydari M, Seyedalinaghi S. Self-care instructions for people not requiring hospitalization for coronavirus Disease 2019 (COVID-19). Arch Clin Infect Dis. 2020;15.
- 6. Park SH. Personal Protective Equipment for Healthcare Workers during the COVID-19 pandemic. Infect Chemother. 2020;52(2):165–82.
- Cook TM. Personal protective equipment during the coronavirus Disease (COVID) 2019 pandemic – a narrative review. Anaesthesia. 2020;75:920–7.
- Key T, Kulkarni A, Kandhari V, Jawad Z, Hughes A, Mohanty K. The patient experience of Inpatient Care during the COVID-19 pandemic: exploring

patient perceptions, communication, and Quality of Care at a University Teaching Hospital in the United Kingdom. J Patient Exp. 2021;1–6.

- Bo HX, Li W, Yang Y, Wang Y, Zhang Q, Cheung T, et al. Posttraumatic stress symptoms and attitude toward crisis mental health services among clinically stable patients with COVID-19 in China. Psychol Med. 2021;51:1052–3.
- Guo Q, Zheng Y, Shi J, Wang J, Li G, Li C, et al. Immediate psychological distress in quarantined patients with COVID-19 and its association with peripheral inflammation: a mixed-method study. Brain Behav Immun. 2020;88:17–27.
- Pei H, Wu Q, Xie Y, Deng J, Jiang L, Gan X. A qualitative investigation of the psychological experiences of COVID-19 patients receiving Inpatient Care in isolation. Clin Nurs Res. 2021;30(7):1113–20.
- Hsiao CT, Sun JJ, Chiang YH, Chen HL, Liu TY. Experience of patients with COVID-19 in hospital isolation in Taiwan. Nurs Health Sci. 2021;23(4):888–97.
- Missel M, Bernild C, Christensen SW, Dagyaran I, Berg SK. It's not just a virus! Lived experiences of people diagnosed with COVID-19 Infection in Denmark. Qual Health Res. 2021;31(5):822–34.
- Shaban RZ, Nahidi S, Sotomayor-Castillo C, Li C, Gilroy N, O'Sullivan MVN, et al. SARS-CoV-2 Infection and COVID-19: the lived experience and perceptions of patients in isolation and care in an Australian healthcare setting. Am J Infect Control. 2020;48(12):1445–50.
- Edvardsson D, Winblad B, Sandman PO. Person-centred care of people with severe Alzheimer's Disease: current status and ways forward Content and meaning of person-centred care. Lancet Neurol. 2008;7(4):362–9.
- Dewing J, McCormack B, McCance T, editors. The person-centred nursing Framework. The person-centred nursing Framework Person-centred nursing research: methodology, methods and outcomes. London: Springer. 2021;13–27.
- Kogan AC, Wilber K, Mosqueda L. Person-centered care for older adults with chronic conditions and functional impairment: a systematic literature review. JAGS. 2016;64(1):e1–7.
- Fazio S, Pace D, Flinner J, Kallmyer B. The fundamentals of person-centered care for individuals with Dementia. Gerontologist. 2018;58(S1):10–S19. https://doi.org/10.1093/geront/gnx122.
- Rogn Nilsen E, Brook H, Söderhamn U, Bjørg D. What matters to older adults? Exploring person-centred care during and after transitions between hospital and home. J Clin Nurs. 2022;31:569–91.
- Scholl I, Zill JM, Härter M, Dirmaier J. An integrative model of patientcenteredness-A systematic review and concept analysis. PLoS ONE. 2014;9(9):e107828.
- 21. Ebrahimi Z, Patel H, Wijk H, Ekman I, Olaya-Contreras P. A systematic review on implementation of person-centered care interventions for older people in out-of-hospital settings. Geriatr Nurs. 2021;42(1):213–24.
- 22. Forsman B, Svensson A. Frail older persons' experiences of information and participation in hospital care. Int J Environ Res Public Health. 2019;16(16).
- Cohen JM, Blustein J, Weinstein BE, Dischinger H, Sherman S, Grudzen C, et al. Studies of physician-patient communication with older patients: how often is hearing loss considered? A systematic literature review. J Am Geriatr Soc. 2017;65(8):1642–9.
- 24. Pel-Littel RE, Snaterse M, Teppich NM, Buurman BM, van Etten-Jamaludin FS, van Weert JCM, et al. Barriers and facilitators for shared decision making in older patients with multiple chronic conditions: a systematic review. BMC Geriatr. 2021;1:112.
- Ekdahl AW, Andersson L, Friedrichsen M. They do what they think is the best for me. Frail elderly patients' preferences for participation in their care during hospitalization. Patient Educ Couns. 2010;80(2):233–40.
- 26. Graneheim UH, Lundman B. Qualitative content analysis in nursing research: concepts, procedures and measures to achieve trustworthiness. Nurse Educ Today. 2004;24(2):105–12.
- 27. Graneheim UH, Lindgren BM, Lundman B. Methodological challenges in qualitative content analysis: A discussion paper. Nurse Educ Today. 2017;56:29–34.
- Graneheim UH, Lundman B. Experiences of loneliness among the very old: the Umea 85 + project. Aging Ment Health. 2010;14(4):433–8.
- King L, Harrington A, Linedale E, Tanner E. A mixed methods thematic review: Health-related decision-making by the older person. J Clin Nurs. 2018;27:e1327–43.
- Wu MS, Watson R, Hayat F, Ratcliffe L, Beadsworth MB, McKenna M, et al. What do people hospitalised with COVID-19 think about their care? Results of a satisfaction survey during the first wave of COVID-19 in Liverpool. Future Healthc J. 2021;8(1):e70–5.

- Galehdar N, Kamran A, Toulabi T, Heydari H. Exploring nurses' experiences of psychological distress during care of patients with COVID-19: a qualitative study. BMC Psychiatry. 2020;20(1).
- Nielsen DS, Hansen RF, Beck SH, Wensien J, Masud T, Ryg J. Older patients' perspectives and experience of hospitalisation during the COVID-19 pandemic: a qualitative explorative study. Int J Older People Nurs. 2021;16(2).
- 33. Segevall C, Björkman Randström K, Söderberg S. Meanings of participation in care for older people after hip fracture Surgery and nurses working in an orthopaedic ward. Int J Qual Stud Health Well-being. 2021;16(1).
- Nilsson M, From I, Lindwall L. The significance of patient participation in nursing care – a concept analysis. Scand J Caring Sci. 2019;33(1):244–51.
- Oxelmark L, Ulin K, Chaboyer W, Bucknall T, Ringdal M. Registered nurses' experiences of patient participation in hospital care: supporting and hindering factors patient participation in care. Scand J Caring Sci. 2018;32(2):612–21.
- Knollman-Porter K, Burshnic VL. Optimizing effective communication while wearing a mask during the COVID-19 pandemic. J Gerontol Nurs. 2020;46(11):7–11.
- Kilgore B, Harriger BH, Gaeta L, Sharpp TJ. Most people rely on facial cues to Unmasking misunderstandings: Strategies for better communication with patients. 2021;51(1):56–9. http://www.Nursing.2021.com Accessed 21 April 2023.
- Chodosh J, Weinstein BE, Blustein J. Face masks can be devastating for people with hearing loss. BMJ. 2020;370:m2683.
- Chen F, Zang Y, Liu Y, Wang X, Lin X. Dispatched nurses' experience of wearing full gear personal protective equipment to care for COVID-19 patients in China—A descriptive qualitative study. J Clin Nurs. 2021;30(13–14):2001–14.
- Andersson M, Nordin A, Engström Å. Critical care nurses' experiences of working during the first phase of the COVID-19 pandemic – applying the person-centred practice Framework. Intensive Crit Care Nurs. 2022;103179.
- Williams C, Gardiner C. Preference for a single or shared room in a UK inpatient hospice: patient, family and staff perspectives. BMJ Support Palliat Care. 2015;5(2):169–74.
- Hosseini SB, Bagheri M. Comparison of patient satisfaction with single patient rooms Versus Shared patient rooms. Ann Mil Health Sci Res. 2017;15(4):e80199.

- 43. Bertuzzi A, Martin A, Clarke N, Springate C, Ashton R, Smith W, et al. The clinical, humanistic, and economic outcomes, including experiencing of patient safety events, associated with admitting patients to single rooms compared with shared accommodation for acute hospital admissions. A narrative synthesis systematic literature review. BMJ Open. 2022. https://doi.org/10.110 1/2022.09.27.22280411.
- 44. Joo JY, Liu MF. Nurses' barriers to caring for patients with COVID-19: a qualitative systematic review. Int Nurs Rev. 2021;68:202–13.
- Tan R, Yu T, Luo K, Teng F, Liu Y, Luo J, et al. Experiences of clinical first-line nurses treating patients with COVID-19: a qualitative study. J Nurs Manag. 2020;28(6):1381–90.
- Iheduru-Anderson K. Reflections on the lived experience of working with limited personal protective equipment during the COVID-19 crisis. Nurs Inq. 2021;28(1).
- Hoernke K, Djellouli N, Andrews L, Lewis-Jackson S, Manby L, Martin S et al. Frontline healthcare workers' experiences with personal protective equipment during the COVID-19 pandemic in the UK: A rapid qualitative appraisal. BMJ Open. 2021;11(1).
- Barratt LR, Shaban R, Moyle W. Patient experience of source isolation: lessons for clinical practice. Contemp Nurse. 2011;39(2):180–93.
- Hampton T, Crunkhorn R, Lowe N, Bhat J, Hogg E, Afifi W, et al. The negative impact of wearing personal protective equipment on communication during coronavirus Disease 2019. J Laryngol Otol. 2020;134(7):577–81.
- Tong A, Sainsbury P, Craig J. Consolidated criteria for reporting qualitative research (COREQ): a 32-item checklist for interviews and focus groups. Int J Qual Health Care. 2007;19(6):349–57.

Publisher's Note

Springer Nature remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.