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Impact of restricted visitation policies during COVID-19 on critically ill adults, their families, critical care clinicians, and decision-makers: a qualitative interview study

Impact des politiques de visites restreintes pendant la COVID-19 sur les adultes gravement malades, leurs familles, les intensivistes et les décideurs : une étude d'entrevue qualitative

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Abstract

Purpose During the first wave of the COVID-19 pandemic, restricted visitation policies were enacted at acute care facilities to reduce the spread of COVID-19 and conserve personal protective equipment. In this study, we aimed to describe the impact of restricted visitation policies on critically ill patients, families, critical care

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S. J. Mizen, MA \cdot J. Parsons Leigh, PhD Faculty of Health, School of Health Administration, Dalhousie University, Halifax, NS, Canada clinicians, and decision-makers; highlight the challenges faced in translating these policies into practice; and delineate strategies to mitigate their effects.

Method A qualitative description design was used. We conducted semistructured interviews with critically ill adult patients and their family members, critical care clinicians, and decision-makers (i.e., policy makers or enforcers) affected by restricted visitation policies. We transcribed semistructured interviews verbatim and analyzed the transcripts using inductive thematic analysis.

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D. J. Cook, MD Department of Medicine and Clinical Epidemiology and Biostatistics, McMaster University, Hamilton, ON, Canada **Results** Three patients, eight family members, 30 clinicians (13 physicians, 17 nurses from 23 Canadian intensive care units [ICUs]), and three decision-makers participated in interviews. Thematic analysis was used to identify five themes: 1) acceptance of restricted visitation (e.g., accepting with concerns); 2) impact of restricted visitation (e.g., ethical challenges, moral distress, patients dying alone, intensified workload); 3) trust in the healthcare system during the pandemic (e.g., mistrust of clinical team); 4) modes of communication (e.g., communication using virtual platforms); and 5) impact of policy implementation on clinical practice (e.g., frequent changes and inconsistent implementation).

Conclusions Restricted visitation policies across ICUs during the COVID-19 pandemic negatively affected critically ill patients and their families, critical care clinicians, and decision-makers.

Résumé

Objectif Au cours de la première vague de la pandémie de COVID-19, des politiques de visite restreintes ont été adoptées dans les établissements de soins aigus afin de réduire la propagation de la COVID-19 et d'économiser les équipements de protection individuelle. Dans cette étude, nous avons cherché à décrire l'impact des politiques de visite restreintes sur les patients gravement malades, les familles, les intensivistes et les décideurs, ainsi qu'à souligner les difficultés rencontrées dans la mise en pratique de ces politiques et à définir des stratégies pour en atténuer les effets.

Méthode Une méthodologie de description qualitative a été utilisée. Nous avons mené des entretiens semistructurés avec des patients adultes gravement malades et les membres de leur famille, les intensivistes et les décideurs (c.-à-d. les stratèges ou les responsables de

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B. Rochwerg, MD Department of Medicine, Division of Critical Care, McMaster University, Hamilton, ON, Canada l'application de la loi) touchés par les politiques de visite restreintes. Nous avons transcrit textuellement les entretiens semi-structurés et analysé les transcriptions à l'aide d'une analyse thématique inductive.

Résultats Trois patients, huit membres de leur famille, 30 cliniciens (13 médecins, 17 infirmières de 23 unités de soins intensifs canadiennes) et trois décideurs ont participé à ces entrevues. L'analyse thématique a été utilisée pour identifier cinq thèmes : 1) l'acceptation des visites restreintes (p. ex., accepter avec des préoccupations); 2) l'impact des visites restreintes (p. ex., défis éthiques, détresse morale, patients mourant seuls, charge de travail accrue); 3) la confiance dans le système de santé pendant la pandémie (p. ex., méfiance à l'égard de l'équipe clinique); 4) les modes de communication (p. ex., communication à l'aide de plateformes virtuelles); et 5) l'incidence de la mise en œuvre des politiques sur la pratique clinique (p. ex., changements fréquents et mise en œuvre incohérente).

Conclusion Les politiques de visite restreintes dans les unités de soins intensifs pendant la pandémie de COVID-19 ont eu un impact négatif sur les patients gravement malades et leurs familles, les intensivistes et les décideurs.

Keywords COVID-19 · intensive care unit · policy · visiting policies

Prior to the COVID-19 pandemic, flexible family visitation policies were increasingly adopted in most hospitals.^{1–6} In the intensive care unit (ICU), such policies are associated with reduced incidence of delirium, reduced anxiety among critically ill patients and their family members, and increased patient and family satisfaction.^{6–10} The first hospital visitation restrictions during the COVID-19

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pandemic were enacted as part of public health measures aimed to reduce the spread of COVID-19 and preserve limited quantities of personal protective equipment (PPE).¹¹ Most policies allowed no visitors with specific exemptions (e.g., end-of-life).

Implementation of restricted visitation policies, although crucial in a pandemic, has been criticized for insufficient input from patients, families, and critical care clinicians.¹² The impacts in ICU settings have not been well documented, and research on clinician experiences is still emerging.¹³ In this qualitative interview study, we aimed to describe the impact of restricted visitation policies during the first wave of the COVID-19 pandemic across Canada on critically ill adults, their families, clinicians, and decision-makers who developed or enforced the policies.

Materials and methods

Study design

We employed a qualitative description design as this inquiry sought a naturalistic methodological approach that was informed by a constructivist perspective.¹⁴ We chose not to conduct a mixed-methods study given this was an exploratory study that aimed to describe restricted visitation during the COVID-19 pandemic. We expected that our study would provide foundational knowledge to inform a future in-depth mixed-methods study. We reported this study in accordance with the Consolidated Criteria for Reporting Qualitative Research checklist (Electronic Supplementary Material [ESM] eTable 1).¹⁵ We conducted interviews from 17 July to 8 October 2020, during the first and second SARS-CoV-2 infection waves in Canada. During this period, some hospitals still had novisitor policies, either outright or with exceptions, while some visitation restrictions were starting to loosen, allowing all patients to have a designated visitor.¹⁶ The University of Calgary Conjoint Health Research Ethics Board approved this study (Calgary, AB, Canada; Ethics ID, REB20-0944).

Participants

We recruited patients and family representatives (who were in the ICU during the COVID-19 pandemic) through our research network Twitter account (@C3ResNetwork), which has an extensive following from patient-centered organizations and critical care colleagues and societies (ESM eAppendix 1). We also recruited from a related national study whereby participants agreed to be contacted for future COVID-19 research opportunities.¹⁷ We purposively recruited critical care clinicians (i.e., physicians, registered nurses, and registered respiratory therapists) through emails to professional societies (Canadian Critical Care Society, Canadian Association of Critical Care Nurses, and Canadian Society of Respiratory Therapists) and through social media, to get representation from all provinces. Decision-makers, defined as persons who developed and/or enforced a policy, were contacted directly. Eligibility criteria included English/French-speaking adults (≥ 18 yr) who were able to provide informed consent.

Interview guide

The interview guide was developed by the research team (MA- [S. M.] and PhD- [J. P. L.] level qualitative researchers and researchers with qualitative experience [K. F., K. K.]), based on team members' (i.e., patient partners, nurses, physicians) and the larger Canadian critical care community's clinical experiences (e.g., moral distress, changes to communication) and relevant publications.^{13,18–22} The interview guide had open-ended questions (to allow participants to share individual perspectives and experiences) and was flexible to allow the interviewer to probe and ask unplanned questions to encourage participants to provide more detail. The interview guide was piloted with three participants (one family member, physician, and nurse) and refined prior to administration (ESM eAppendices 2–4).

Data collection

Researchers trained in qualitative methods conducted all interviews (nurse with qualitative experience [K. S.]). All researchers kept a reflexive journal for critical selfreflection on the impact their background/experience had on the research process.²³ Prior to each interview, participants were sent an e-mail with information about the interview and a consent form. Each participant's informed verbal consent was obtained prior to the interview. We conducted all interviews per participant preference (e.g., phone, virtual platforms). Family and patient interviews were ~ 60 min long, and clinician and decision-maker interviews were 30-45 min long. Interviews were audio-recorded, transcribed verbatim, redacted for identifying reviewed for accuracy, information, and imported into NVivo-12 (QSR International, Melbourne, Vic, Australia) for data management and analysis. All participants were sent a personalized summary of their interview for member checking and were able to respond and request changes (e.g., redacting details of experience shared to ensure privacy of involved parties).²⁴

Data analysis

Inductive thematic analysis was conducted as described by Braun and Clarke.²⁵ Four researchers (K. K., N. J. [intensivist with qualitative experience], K. S., and S. M.) analyzed the interview transcripts independently and in duplicate, concurrently with data collection. Transcripts were analyzed as four separate groups: patient/family member (combined due to the small number of patient participants and overlap in experiences/emotions), physician, nurse. or decision-maker transcripts. Researchers listened to a recording of each interview and themes were developed and coded based on what participants described as most important/impactful when responding to the questions and probes. A codebook was created for each participant group and we identified shared features and experiences across participants. The research team met weekly with the principal investigators (K. F., J. P. L.) to iteratively read, review, and refine the themes and subthemes based on new insights that emerged as the study progressed. We conducted and iteratively analyzed interviews and invited participants for interviews until no new patterns or themes were identified and it was determined by the research team that thematic saturation had been reached. The same four researchers then applied codes from the finalized codebook systematically to all 44 transcripts and critically compared results to ensure continued agreement and that the data remained true to participants' subjective accounts, rather than to researchers' interpretations. consistent with the constructivist perspective underlying the research.

Results

Participants

Three patients, eight family members (four children, three spouses, one sibling), 30 clinicians (13 attending physicians, 15 bedside nurses, one clinical nurse specialist, one clinical nurse educator), and three decision-makers participated (Table 1). Clinicians were from 23 ICUs in eight provinces, which included ICUs from high-volume wave 1 ICUs in Ontario and Quebec (a

Table 1 Participant characteristics

Characteristic	Patients $(N = 3)$	Family members $(N = 8)$	Physicians $(N = 13)$	Nurses $(N = 17)$	Decision-makers $(N = 3)$
Age category, yr, <i>n</i> /total N (%)					
20–29	0/3 (0%)	1/8 (12%)	0/13 (0%)	4/17 (24%)	0/3 (0%)
30–39	0/3 (0%)	0/8 (0%)	5/13 (38%)	7/17 (41%)	1/3 (33%)
40-49	0/3 (0%)	3/8 (37%)	6/13 (46%)	3/17 (18%)	1/3 (33%)
50–59	2/3 (67%)	2/8 (25%)	2/13 (15%)%)	2/17 (12%)	1/3 (33%)
≥ 60	1/3 (33%)	2/8 (25%)	0/13 (0%)	1/17 (6%)	0/3 (0%)
Female sex, n /total N (%)	1/3 (33%)	5/8 (62%)	3/13 (23%)	16/17 (94%)	2/3 (67%)
Province, n/total N (%)					
British Columbia	2/3 (67%)	0/8 (0%)	1/13 (8%)	3/17 (18%)	1/3 (33%)
Alberta	0/3 (0%)	2/8 (25%)	5/13 (38%)	3/17 (18%)	1/3 (33%)
Saskatchewan	0/3 (0%)	0/8 (0%)	0/13 (0%)	1/17 (6%)	0/3 (0%)
Manitoba	0/3 (0%)	0/8 (0%)	0/13 (0%)	3/17 (18%)	0/3 (0%)
Ontario	1/3 (33%)	4/8 (50%)	3/13 (23%)	4/17 (24%)	1/3 (33%)
Quebec	0/3 (0%)	1/8 (12%)	3/13 (23%)	0/17 (0%)	0/3 (0%)
Nova Scotia	0/3 (0%)	1/8 (12%)	1/13 (8%)	2/17 (12%)	0/3 (0%)
New Brunswick	0/3 (0%)	0/8 (0%)	0/13 (0%)	1/17 (6%)	0/3 (0%)
Newfoundland and Labrador	0/3 (0%)	0/8 (0%)	0/13 (0%)	0/17 (0%)	0/3 (0%)
Territories (Northwest Territories, Nunavut, and Yukon)	0/3 (0%)	0/8 (0%)	0/13 (0%)	0/17 (0%)	0/3 (0%)
Employment status, n/total N (%)					
Full-time	1/3 (33%)	3/8 (37%)	13/13 (100%)	14/17 (82%)	0/3 (0%)
Part-time	0/3 (0%)	1/8 (12%)	0/13 (0%)	3/17 (18%)	0/3 (0%)
Retired	1/3 (33%)	1/8 (12%)	0/13 (0%)	0/17 (0%)	0/3 (0%)
Not working (disabled, caregiver)	1/3 (33%)	3/8 (37%)	0/13 (0%)	0/17 (0%)	0/3 (0%)

peak of 264 COVID-19 patients admitted to Ontario, 258 to Quebec) and low-volume wave 1 ICUs in other provinces (peak of 22 patients admitted to Alberta).²⁶ Most clinicians practiced in academic institutions (22/30; 73%, regional: 6/30; 20%, urban/nonacademic: 2/30; 7%). Most participants reported that their ICU visitation policy was no visitors (22/44; 50%), no visitors with exceptions (e.g., end-of-life, 15/44; 34%), or one designated visitor (7/44; 16%).

Thematic analysis

Thematic analysis identified five major themes that reached saturation and were shared across all participant groups: 1) acceptance of restricted visitation; 2) impact of restricted visitation; 3) trust in the healthcare system during the pandemic; 4) modes of communication; and 5) impact of policy implementation on clinical practice. An overview of themes/subthemes is presented in Table 2, with exemplar quotations from each stakeholder group included in ESM eTable 2.

Acceptance of restricted visitation

Overall, patients and family members shared that they understood that visitor restrictions were important to prevent the spread of COVID-19 (quotation 1 [Q1]), and that the ICU care team was "doing the best they could." Although clinicians were accepting of the circumstances, most felt the restricted visitation was too restrictive. Most clinicians also thought that policies were not appropriate because they did not match what was going on in their city (Q2) or that family should always be allowed in the ICU because they are an important part of patient care (Q3). Clinicians were split on whether it was appropriate to allow visiting for patients with COVID-19. Some expressed concerns that visitors may also be infected with SARS-CoV-2 and expose clinicians. Conversely, others believed that COVID-19 patients could have visitors if the family were provided with appropriate PPE or could visit through an exterior window (Q4).

Impact of restricted visitation

Patients/family members, clinicians, and decision-makers described how restricted visitation impacted them personally. This included threats to their psychosocial well-being. Family members often used the words *anxious* (Q5) and *guilt* (Q6) when describing how it felt to not visit their loved one in the ICU. Clinicians often used the terms *distress* (Q7) and *sad* (Q8) when describing how they felt when family could not visit. Clinicians also shared how difficult it was to predict end-of-life and the interpretation

of policies in these circumstances (i.e., visitation policies were frequently reported to be different during end-of-life). Several clinicians shared experiences of family members not arriving in time before their loved one died. A few clinicians were distressed in situations when an older adult was in the ICU, but their partner was isolated at home without someone to check in on them. When participants were asked about the impacts of restricted visitation, all participant groups shared how the lack of family presence impacted patient care. Families and patients shared how families were not there to act as an advocate for the patient (O9) or provide the patient with support and encouragement (Q10). Clinicians felt it was detrimental when family was not present to help with patient care (e.g., eating, physiotherapy, or orientation) (O11) or provide clinicians with information about the patient (Q12). Many clinicians described how restricted visitation policies negatively impacted their relationships with the family. This included conflicts with families when enforcing the policy (Q13) or not answering calls from family members who were not the designated contact person. Clinicians also felt they could not develop a connection with a family when they were not at the bedside. When clinicians were asked how restricted visitation policies affected their workflow, they were divided regarding whether restricted visitation increased (e.g., frequency and length of phone calls, coordinating virtual visits, teaching/monitoring visitors) or decreased (e.g., rounds more efficient, fewer consultants coming to the ICU, fewer informal conversations with family members) their workload.

Trust in the healthcare system during the pandemic

All participants described experiences related to trust in the healthcare system during the pandemic. Family members did not have assurance that their loved one did not die (O14). Similarly, clinicians described alone how transparency was challenging when family members could not see the clinical condition of their loved one or what care was being provided (Q15). Some clinicians mistrusted senior management when a policy was not applied consistently and family was allowed to visit when the physician or nurse told them they could not (Q16) or when colleagues found ways around the policy (Q17). In addition, clinicians experienced mistrust when family members found ways around the policy (e.g., sneaking in to visit, switching family members when only one consistent visitor was allowed). Family members admitted to finding ways around the policy to visit their loved ones.

Quotation number	Theme and subtheme	Exemplar quotation(s)
Acceptance of	of restricted visitation	
Q1	Acceptance of circumstances	"in terms of the greater good to the public and especially, to nursing homes and long-term care facilities, I think we all understand that if one family member brings it into the hospital unknowingly, even if they're asymptomatic, that can have devastating effects" – <i>Family member</i>
Q2	Appropriateness	"Restaurants, bars were openedwhy was it not possible to visit someone liberally in the hospital?" -Physician
Q3	Appropriateness	"family was such an important part of our patient care in the ICU and involving the family and having them come in and support the patient as they either progressed or unfortunately didn't progress." – <i>RN</i>
Q4	Appropriateness	"I just thought it was too bad that they couldn't somehow meet him, escort him in with all the proper PPE, take him to his mom and they could spend time together." $-RN$
Impact of rea	stricted visitation	
Q5	Psychosocial impact	"So there's just a lot of <i>anxiety</i> and probably some PTSD to begin with, so to be talked to and to know that, that's not the policy. I really don't believe that policy is only one family member can get a report, or that a nurse doesn't have enough time just to say, 'They made it through the night.'" <i>–Family member</i>
Q6	Psychosocial impact	"We all felt badly that we couldn't see him, and we felt badly that he must have suffered through his last few days and not understanding what was going on around him and why no one was coming to see him. We feel <i>guilty</i> about that." <i>–Family</i>
Q7	Psychosocial impact	"An individual in their 30s with children and a husband, mother and a father, die without any of them being present, without any of them seeing how hard we worked for the very short time that they were with us. It's quite <i>sad</i> to think about that and to think that the families had no chance to say goodbye." $-RN$
Q8	Psychosocial impact	"The family member has three children and only one of them is allowed to visit. That caused a lot of <i>distress</i> for the family and caused a lot of <i>distress</i> for the staff." – <i>Physician</i>
Q9	Patient care	"I got to make sure that when you're having conversations some people remember it all and for me, you know, I might forget something five minutes after somebody told me and maybe I forget to relay it to her, you know what I mean? So an extra set of ears is a lot better than just getting fed information, right?" – <i>Patient</i>
Q10	Patient care	"So, as I said, my father is elderly, and was not happy about being sick and being in the hospital, and the visits that he did receive before the restrictions came down, did lift his spirits a great deal, and encourage him. So when the visits were restricted, he did suffer. He was not as comfortable, not as uplifted, emotionally. So I do believe that the restrictions had a negative effect on him." <i>–Family member</i>
Q11	Patient care	"patients, I'm quite certain that having family members there, orienting them, providing consistency, helps ward against things like delirium and improves outcomes." – <i>Physician</i>
Q12	Patient care	"family members are important to me in terms of my care to connect with a patient, to connect more thoroughly, in a more well rounded way instead of just watch their blood pressure, manage the medications. It's helped when I have a family member to talk to, to ask about the patient. It enhances a bit of the overall care." $-RN$
Q13	Relationship	"then you're having these conflicts with families, that you don't even agree with the policy, but you have to stick with it. And you're escalating it on the back end and they don't know, so they're getting mad at you and so you end up being this middle person" – <i>RN</i>
Trust in the	healthcare system during i	the pandemic
Q14	Transparency	"Because we weren't allowed in there ourselves, we have no assurance that that was actually done for every person that needed it or should have had some sort of somebody there so that they knew that they didn't die alone, that people cared for them and that even if they didn't understand that it wasn't possible for us to be there, at least they weren't alone. We have no assurance that that was actually done." <i>–Family member</i>
Q15	Transparency	"For example, intubated patient who's dying, the families don't often appreciate it until they see how much we're doing for the patient, how much we're trying to save them or what are we doing to make them comfortable, how are we caring for them at the bedside." $-RN$
Q16	Trust	"The biggest issue was that if anyone complained to senior management about the policy, they overruled the policy and allowed the family to visit." – <i>Physician</i>

Table 2 continued

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Quotation number	Theme and subtheme	Exemplar quotation(s)
Q17	Trust	" I started to hear about the, not necessarily loopholes, but different ways that people found to get around the policies, like finding a back door and sneaking family members in and going out to meet them in person." – <i>Physician</i>
Modes of co	ommunication	
Q18	Virtual platform	"So we got iPads donated to all the critical care units and all the COVID-19 units that were in the hospital so that was really nice. I personally never used it, but their main use was for patients to use Zoom with their loved one." – <i>RN</i>
Q19	Phone	"Sometimes, I think early on, there were a few that I did not even with video conferencing. It was just over the phone, which I found very impersonal and very challenging to discuss such an in-depth, personal topic with someone about. When it got to more of a virtual platform where we were able to actually see people, I think it became a little bit easier. But still I found that it just lacked that connection that you would have with a family when you're with them in person." – <i>Physician</i>
Q20	Virtual platform	"I almost felt the video chat was worse. Because nursing staff weren't necessarily always there for the video chat, so then they'd have these They basically have a family member with no medical knowledge seeing their loved one intubated. And people when they're intubated don't look They look very unwell. And they're seeing this and they know they can't visit. So I don't know that there was much benefit from that or if it just distressed the families a bit more." $-RN$
Impact of p	olicy implementation on cli	inical practice
Q21	Organizational factors	" you easily spend the entire half a day just monitoring the donning and doffing of equipment" -Physician
Q22	Changes in communication structure	"I think it's easier to convey difficult news in person, because you can share in that emotional exchange rather than in the more sterile phone environment. So, the difficult stuff was more difficult, I think, via the phone. The update as to progress, specifically if progress was good, I found was fine in that. And I think that that can be done on the phone and often is. It was more so if things weren't going well, that was challenging."– <i>Physician</i>

PPE = personal protective equipment; PTSD = post-traumatic stress disorder; RN = registered nurse

Modes of communication

When participants were asked to describe how they communicated during restricted visitation, most said that discussions between clinicians and family members occurred via telephone. Most participants reported that virtual visits occurred between patients and family members (Q18), though physicians sometimes used virtual platforms so that they could see the family members when breaking bad news or having sensitive conversations about prognosis or goals of care (Q19). Though several participants stated that virtual visitation was a good way for family to visit with the patient, see the patient's room and the clinical condition of the patient, one nurse noted that family members may have found this distressing (Q20). No family members in the current study identified seeing their loved one by virtual platform as distressing.

All participant groups described the personal challenges faced with these modes of communication. Family members and clinicians noted that in some cases (e.g., due to socioeconomic status), communication devices were not available to patients or families (i.e., patients or family members who did not have devices for virtual visits or could not afford the long-distance charges), language barriers, lacked familiarity with technology, or the patient's clinical condition (i.e., unable to interact, too weak to hold phone). Decision-makers and clinicians also identified several operational challenges, which included coordinating multiple family members/clinicians, infection control/prevention measures, and training staff (e.g., using iPads for virtual meetings).

Impact of policy implementation on clinical practice

Clinicians described how restricted visitations policies impacted their practice. This included organizational factors, where clinicians took on additional tasks such as enforcing the visitation policy and, in some cases, accompanying families to the patient room or supervising their donning and doffing of PPE (Q21). Physicians described how restricted visitation policies forced them to change their communication structure, which included the shift of goals of care discussions to the phone rather than face-to-face (Q22), and the casual updates when family were present at the bedside were replaced with more frequent phone calls. Families also described challenges associated with this change in communicating with the clinical team during rounds or finding a time with busy bedside nurses to receive an update.

Clinicians and decision-makers also described policyspecific challenges. This included frequent visitation policy changes that were often communicated on a Friday afternoon when there was no one available to answer questions, causing confusion with staff, which resulted in inconsistent application of the policy (e.g., breach of policy, exceptions, varied interpretations). Policy changes were also communicated via innumerable emails, which clinicians reported made them difficult to keep up with. Lastly, clinicians noted that policy changes revealed ethical challenges such as equity, confidentiality, privacy, and the need to avoid biased decisions in constructing policies.

Strategies to improve restricted visitation policies

The most common strategies suggested by participants to improve visitation policies are included in Table 3. Most strategies recommended increased organizational support. Most family members and clinicians found it difficult to keep up with the rapidly changing policies and suggested ways to mitigate this. This included a centralized place for the most recent policy (e.g., website) or patient navigators who communicate the policy with visitors. Another commonly suggested strategy was to allow visits for all ICU patients given the risk of sudden death.

Discussion

In this qualitative interview-based study, we describe the impressions and perceived impact of restricted visitation policies during the first wave of the COVID-19 pandemic on critically ill adults, their families, clinicians caring for them, and decision-makers. Most hospitals did not allow visitors, or only with special exceptions. Our findings suggest that restricted visitation policies had negative impacts on all stakeholders (e.g., ethical challenges, moral distress, patients dying alone, intensified workload), and that an ICU-specific policy, additional organizational support, improved communication of policy changes, and engagement of relevant stakeholders in future policy decisions are important strategies to mitigate these impacts. Several editorials,^{27–30} news stories,^{20,22,31,32} and studies have shared the personal impact that restricted visitation policies during the COVID-19 pandemic had on patients, family members,^{33,34} and clinicians. Family members of critically ill patients found policies restrictive but understood their purpose to reduce the transmission of SARS-CoV-2. Clinicians questioned the appropriateness of the policies and often experienced distress when family members were not allowed to visit their loved ones, especially in end-of-life situations.^{28,35} This included the perception of clinicians that they were responsible for keeping family from seeing their loved one, including at the end-of-life. It is challenging for clinicians to predict end-of-life given the occasional unpredictability of critical illness; this study highlights the difficulty of merging and implementing policies in the setting of circumstances.^{36–38} unforeseeable clinical Many participants suggested that ICUs should always have visitor exceptions, which are supported by a recent article.³⁹ This may be feasible in ICUs that have single patient rooms or require passes where the ICU can control visitor entry. The rooming of multiple patients into single rooms to accommodate increased patient volumes complicates visits. Furthermore, it is unclear how to manage visits when a patient is allowed visitors in the ICU but not after transfer to a hospital ward.

Given that infectious disease outbreaks are inevitable, our results provide several strategies that could mitigate the effects of restricted visitation. This includes having an ICU-specific policy that is consistently applied among healthcare professionals and administrators. Also, we need to decide how safe visits can be accomplished with appropriate PPE (and stakeholder training),³⁹ regulating the number of visitors (except in end-of-life situations), staggering visits (e.g., odd room numbers then even room numbers), or offering limited visit time (e.g., duration or limited visiting hours).³⁹ This requires organizational support, which could include a central location to post updated policies, communication of policies within healthcare settings at the beginning of the week (i.e., avoiding Friday afternoon policy changes), additional guidance for executing mixed media communication (e.g., privacy considerations),⁴⁰ and possibly patient navigators who can communicate policies and educate visitors on appropriate PPE donning and doffing.⁴¹ Lastly, it is important that policy decisions are made with the ongoing input of stakeholders.⁵

The strengths of this study include that interview guides were codesigned by patient partners, clinicians, and researchers, and tested in pilot interviews before use. The study population included patients, families, clinicians, and decision-makers from multiple sites (academic/ nonacademic) across Canada. This study also has several limitations. First, given the regional differences in how each province was affected and responded to the first wave of the pandemic, it is possible that thematic saturation was not reached on some region-specific subthemes in our data. Moreover, the current study was not designed to understand if the perspectives of respondents differed substantially because of a center's relative proportion of admitted COVID-19 patients. Nevertheless, we included unique viewpoints to ensure that a breadth of views and

Strategy	Patients or family members*	Physicians	Registered nurses	Decision- makers	Examples
Organizational support	~	~	v	~	Better or centralized communication (communication director or ICU navigator)
					-Family member
					Assist older adults with technology
					–Family member
					Someone to facilitate virtual visits (e.g., medical students)
					-Family member/Physician/RN
					Centralized place for most recent policy (e.g., unit clerk desk, posters, website, pamphlet)
					-Family member/Physician/RN
					Enforce the policy
					–Physician/RN
					Phones for every room, more iPads for the unit
					–Physician/RN
					Patient navigators to communicate policies and supervise PPE donning/doffing
					–Physician
					Education on new technologies
					–Physician
					Spokesperson who updates families
					–Physician
					Guidance documents for [conducting] mixed media meetings, family meetings on hospital grounds, etc.
					–Physician
					Space to physically distance
					–Physician
					Policies that include larger hospital and closed spaces interactions
					–Decision-maker
					More structured, streamlined approach to communication
					–Decision-maker
No ICU visitor restrictions	~	~	~	~	Allow older adults to have visitors, even if from a window
					-Family member
					Family wear PPE so they can visit
					-Family member/Physician/RN
					No blanket visitation policy for the hospital -Physician/RN
Stakeholders included in policy developments	×	~	~	~	Including those impacted by policy in the decision-making process
					–Physician/RN/Decision-maker
Consistency	×	~	~	~	Giving us a consistent message and not contravening their own policies
					-RN
Psychosocial support	×	~	~	×	Acknowledgement of their efforts -RN
					Support (face-to-face, Zoom talks, support group, debriefs, one-on-one)
					–Physician

Table 3 Perceived strategies to improve restricted visitation policies, identified for patient/families, physicians, registered nurses, and decision-makers

Table 3 continued

Strategy	Patients or family members*	Physicians	Registered nurses	Decision- makers	Examples
Responsive policies	X	~	v	x	Extent of restriction should match what is happening in the community
					–Physician
					Escalation and de-escalation plans, based on COVID-19 burden in the community
					–Physician
					Staged approach so people know what to expect – <i>RN</i>
Virtual rounds	V V	~	~	×	Web camera in patient room
					-Family member
					iPad attached to bed
					–Patient
					Virtual rounds
					-Physician/RN
Additional restrictions	×	~	~	X	Time limit
					–Physician/RN
					Staggered visiting
					–Physician
					Visiting hours
					–Physician/RN
					PPE for all visitors
					–Physician/RN

For each subtheme, " \checkmark " indicates that this theme was identified for the stakeholder while " \checkmark " indicates that this subtheme was not identified for the stakeholder

PPE = personal protective equipment; RN = registered nurse

experiences were represented. Second, it is possible that some perspectives were missed, given that stakeholders may have been motivated to participate based on their experience with restricted visitation policies. For example, the actual number of patients and family members who participated was lower than that of healthcare professionals and may limit our ability to speak on some of the nuances in the identified subthemes. Nevertheless, thematic saturation was reached for the major themes for all participant groups. While we recruited to achieve geographic representation from across the provinces, we did not purposively sample to ensure representation of sex, gender, age, and ethnicity. The lack of purposive sampling was not because we did not see the value in including diversity, but that we cast our net wide using social media (seen as an appropriate tool when recruiting hard-to-reach populations)^{42,43} and interviewed everyone who expressed interest. Third, though the current study was conducted during the first wave of the COVID-19 pandemic, we did not have an idea whether the units were at the peak or the nadir at the actual time of the interview. Moreover, the study occurred before the SARS-CoV-2 variants of concern emerged and the availability of vaccines, both which may have biased participants to favor more strict and less strict policies, respectively.

Conclusions

During the first wave of the COVID-19 pandemic, health authorities and hospitals moved quickly to restrict visits to hospitals to limit the spread of SARS-CoV-2. These policies negatively impacted critically ill adults and their families, clinicians, and decision-makers. When developing and implementing restricted visitation policies, policy makers should balance mitigation of SARS-CoV-2 transmission in a hospital environment and the potential negative impact of restricted visitation policies on patients, families, and clinicians. When possible, patients, family members, clinicians, and decision-makers should be engaged in developing visitation policies to help achieve this equilibrium. Peerreviewed literature should also be consulted, which may be pivotal for decision-making should similar circumstances arise in future. Now is an important time to do this work to ensure that engagement is in place for future communicable disease outbreaks.

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