Exploring the experiences and perspectives of substitute decision-makers involved in decisions about deceased organ donation: a qualitative study protocol

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ABSTRACT

Introduction In Canada, deceased organ donation provides over 80% of transplanted organs. At the time of death, families, friends or others assume responsibility as substitute decision-makers (SDMs) to consent to organ donation. Despite their central role in this process, little is known about what barriers, enablers and beliefs influence decision-making among SDMs. This study aims to explore the experiences and perspectives of SDMs involved in making decisions around the withdrawal of life-sustaining therapies, end-of-life care and deceased organ donation.

Methods and analysis SDMs of 60 patients admitted to intensive care units will be enrolled for this study. Ten hospitals across five provinces in Canada in a prospective multicentre qualitative cohort study. We will conduct semistructured telephone interviews in English or French with SDMs between 6 and 8 weeks after the patient’s death. Our sampling frame will stratify SDMs into three groups: SDMs who were not approached for organ donation; SDMs who were approached and consented to donate and SDMs who were approached but did not consent to donate. We will use two complementary theoretical frameworks—the Common-Sense Self-Regulation Model and the Theoretical Domains Framework—to inform our interview guide. Interview data will be analysed using deductive directed content analysis and inductive thematic analysis.

Ethics and dissemination This study has been approved by the Centre Hospitalier de l’Université de Montréal Research Ethics Board. The findings from this study will help identify key factors affecting substitute decision-making in deceased organ donation, reasons for non-consent and barriers to achieve congruency between SDM and patient wishes. Ultimately, these data will contribute to the development and evaluation of tools and training for healthcare providers to support SDMs in making decisions about organ donation.

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community, policy makers, transplantation communities and citizens.6

Consent for organ donation in Canada requires direct discussions between trained donation experts and substitute decision-makers (SDMs) (eg, families, friends or significant persons in the patient’s life), who may or may not be aware of the patients’ premorbid wishes, whether these wishes were formally registered or not (eg, online or through health card or drivers’ license applications). As organ donation preferences represent personal values, some SDMs may refuse to engage in these discussions. Furthermore, data suggest substantial mismatch between individuals’ stated wishes and decisions made by SDMs.1 While 90% of Canadians surveyed support organ donation,1 over one-third of Canadian families decline organ donation when approached. In Ontario, one-fifth of SDMs of registered donors ultimately declined organ donation.5

Despite the central role of the substitute decision-making process, our understanding about the factors influencing the decision around deceased organ donation is restricted to few studies, most of which have been conducted outside of Canada.6 A qualitative study involving 27 SDMs in Ontario who had been involved in discussions regarding consent for organ donation found that although participants reported empathetic care from hospital staff, procedural (eg, communication) and situational (eg, a proper setting for family meetings) factors left family members ‘troubled by unanswered questions’.7 Current research is insufficient to guide personalised strategies for supporting SDMs,5 which remain largely ad hoc rather than informed by evidence. Therefore, understanding which factors best account for SDM decisions and how their views affect that process is of utmost importance. Most studies to date have not directly involved SDMs and have been limited by inappropriate sampling such as retrospective selection,8 9 10 which is associated with selection bias. Others have failed to use structured and validated models or frameworks in their design and analysis.6 11 12 As a result, there is substantial opportunity to ensure that SDMs are supported to make decisions that are as informed as possible in these challenging, emotion-laden circumstances where withdrawal of life-sustaining therapies, end-of-life care and organ donation need to be discussed.

To address these gaps, we seek to gain a better understanding of the views and experiences of SDMs regarding the process of consent to organ donation. We therefore propose a prospective qualitative study of SDM views and experiences to support and improve the decision-making process regarding deceased organ donation. Consistent with a previously reported approach,13 we will draw on two complementary theoretical frameworks, Leventhal’s Common Sense Self-Regulation Model (CSSRM)14 and the Theoretical Domains Framework (TDF),15 that to our knowledge, have yet to be employed in the context of organ donation.

AIMS
Our aim is to investigate the experience and perspectives of SDMs involved in decisions around the withdrawal of life-sustaining therapies, end-of-life care and deceased organ donation.

METHODS AND ANALYSIS

Study design
We will conduct a prospective, multicentre, qualitative cohort study including semistructured telephone interviews with the SDMs of potential organ donors. This study constitutes step 1 of the Understanding Decision Making in the Intensive Care Unit: a National Study.

Setting and context
Ten academic hospital centres in Canada, each active in organ donation, will participate. This study will be conducted in collaboration with the Canadian Critical Care Trials Group (CCCTG) and the Canadian Donation and Transplant Research Program (CDTRP).

Sample and recruitment
At each participating site, research coordinators with experience working with critically ill populations will prospectively identify consecutive patients admitted in the intensive care unit (ICU) for whom withdrawal of life-sustaining therapies and/or organ donation has been discussed or are about to be discussed. Research coordinators will then identify and approach the SDM(s) of these patients through discussion with ICU physicians and the nursing team. At this point, SDMs will be provided a letter of information including detailed information about the study. We will include at least one SDM per patient, however, the opportunity to participate will be offered to all other interested SDMs. At the initial contact, research coordinators will simply solicit preconsent to be contacted by phone between 6 and 8 weeks after the patient’s death at a time convenient to the SDM.

We will interview SDMs from up to 60 patients using a purposive sampling approach to obtain a variety of perspectives. As such, our sampling frame will equally stratify interviews with SDMs who were: not approached about organ donation (NA group), approached and consented to donate (AC group) and approached but did not consent (ANC group).

Theoretical framework
We will first draw on the CSSRM14 of health and illness to explore how SDMs understood and conceptualised the illness/injury that caused the death of the patient. The CSSRM proposes that individuals hold common sense beliefs about a particular health threat (eg, illness/injury), and these beliefs allow them to make sense of symptoms and illness experiences. These beliefs, or ‘illness representations’, vary in nature and scope between and within individuals over time and comprise five inter-related constructs: identity; cause; timeline;
consequences; cure/control. The CSSRM considers these illness representations alongside emotional reactions (eg, fear, worry, guilt, sadness) and proposes a model for how individuals cope with these representations and their emotions in response. We will explore how SDMs labelled the illness/injury in their own words (identity), what they believed led to the illness/injury (cause), how long they believed the patient had left to live following the illness/injury (timeline), how their views changed over time about the consequences of the illness/injury (consequences) and their beliefs about curability and reversibility of the illness/injury (cure/control). We will also explore the role of their emotional reactions during this process.

We will then draw on the Theoretical Domains Framework (TDF) to explore the barriers and enablers that influenced or may have influenced the decisions made by SDMs about the withdrawal of life-sustaining therapies, end-of-life care and the organ donation process. The TDF summarises constructs from predominant theories of behaviour and behaviour change into 14 distinct theoretical domains each representing key factors that determine behaviour (knowledge, skills, social/professional role and identity, beliefs about capabilities, beliefs about consequences, optimism, reinforcement, intentions, goals, memory/ attention/decision processes, environmental context and resources, social influences, emotion, behavioural regulation (see Cane and colleagues for definitions). The TDF provides a basis for understanding a broad set of factors that influence the decision to consent to donate or not and has been used as a basis to identify potential barriers and enablers to behaviours in other settings. Although the TDF has been used to explore the views of ICU staff and organ donor coordinators involved in deceased organ donation, as far as we are aware, it has yet to be used among SDMs involved in organ donation.

**Interviews**

**Interview guide**

Interviews will be conducted in English or French by a multidisciplinary team of researchers and clinicians trained in qualitative research methodology and experienced with critically ill populations. One of our patient-partners, with lived experience of deceased organ donation, will be an interviewer. Each member of the interview team will be trained to: familiarise themselves with the interview guide; undertake practice interviews using training vignettes and undertake practice interviews with SDMs with lived experience of deceased organ donation who have volunteered to collaborate in this phase of the study. Continued refinement of the interview guide will take place during this training process until a final version is agreed on prior to recruitment of study participants.

**Data collection**

We will collect patient demographic and clinical data during the patients’ ICU stay (age, sex, type of injury/illness, cause of death, organ donation status). We will collect SDM demographic data (age, gender, religion, ethnicity) and obtain audiorecorded informed verbal consent from SDMs at the time of the scheduled interviews. All interviews will be conducted between 6 and 8 weeks after the patient’s death to minimise family burden, optimise research consent rates and avoid influencing the donation process. This approach was successful in previous studies involving bereaving families and is supported by our patient partners.

The coordinating centre will post a reminder letter to SDMs within 4-week period after the patient’s death, suggesting a date and time for the first phone call with the interviewer (scheduled between 6 and 8 weeks after the patient’s death). If the SDM cannot be reached at the first call, interviewers will be instructed to make up to five more call attempts to schedule the interview over the next 3-week period. If the SDM is contacted but is not available to be interviewed at the time of the first phone call, they will be able to postpone/reschedule the interview up to three times, until a 6-month cut-off point is reached (eg, 6 months since the death of the patient). SDMs who cannot be contacted by phone within the 6-month cut-off point will be excluded.

Interviews will continue until thematic data saturation is achieved (see Data analysis section). Thematic data saturation will be determined using a formal stopping rule: when no new themes emerge within TDF domains or CSSRM constructs in 3 consecutive interviews after at least 10 interviews have been conducted per group. In previous theory-based interview studies, saturation was typically achieved within 15–25 interviews per group. Thus, targeting a total of 60 patients (20 per group) should be sufficient to achieve data saturation. Interviews will be transcribed verbatim. French interviews will be translated by trained professionals to allow data analysis to be conducted in English.

Interviewer training

Interviews will be conducted in English or French by a multidisciplinary team of researchers and clinicians trained in qualitative research methodology and experienced with critically ill populations. One of our patient-partners, with lived experience of deceased organ donation, will be an interviewer. Each member of the interview team will be trained to: familiarise themselves with the interview guide; undertake practice interviews using training vignettes and undertake practice interviews with SDMs with lived experience of deceased organ donation who have volunteered to collaborate in this phase of the study. Continued refinement of the interview guide will take place during this training process until a final version is agreed on prior to recruitment of study participants.
Data analysis

Qualitative analyses will include both deductive directed content analysis27 and inductive thematic analysis.28 The theoretical basis—the CSSRM and the TDF—of the interview guide will inform the directed content analysis. A coding manual will describe each CSSRM construct and TDF domain and provide flexibility to code emerging themes. Two researchers will independently code anonymised transcripts using NVivo qualitative data analysis software (QSR International Pty V.11, 2015). Respondent utterances will be coded to a CSSRM construct or TDF domain. Coders will begin by coding one transcript selected at random from the first 10 interviews conducted in each group (NA, AC and ANC) and then meet to compare coding and identify discrepancies. Discrepancies will be discussed with a third member until a consensus is reached and the final decision will be added to the coding manual. Independent double coding will then proceed in blocks of five transcripts, followed by discrepancy discussions and necessary adjustments to the coding manual. Krippendorff’s alpha29 will be used to assess inter-rater agreement within each block of five and overall. We will assess the relevance of constructs/domains based on three factors, as per recommendations in the literature17: frequency of shared beliefs across respondents, incidence of conflicting beliefs and particular emphasis of the importance of a given belief in every respondent experience.18 Following directed content analysis, our coders will conduct thematic analysis of content within constructs/domains which will involve: searching for themes, reviewing themes and defining and naming themes.28 Data will be reported in accordance with the Consolidated Criteria for Reporting Qualitative Research guidelines.30

Patient and public involvement

Input from patient-partners with lived experience of deceased organ donation will help to shape the design and delivery of this study. One of our interviewers (a coapplicant on our study grant) is a patient-partner with lived experience of deceased organ donation. Our interview guide will be developed collaboratively with our patient-partners and will be pretested for perceived clarity, brevity and sensitivity by the research team and patient-partners (see Interview guide section). The interview team will undertake practice interviews with patient-partners from non-profit organisations (eg, Chain of Life) to ensure they are competent using the interview guide (see Ethical/safety considerations section). Feedback from patient-partners about the practice interviews will be collated and discussed among the research team.

ETHICS AND DISSEMINATION

Ethical/safety considerations

At the time of patient identification, only preconsent to be contacted by phone (6–8 weeks later) will be obtained from the patient’s SDMs. Despite seemingly minimal commitment at this point, we are aware that even asking potentially distressed and grieving individuals to consider research participation must be handled sensitively.31 32 Our research coordinators, who have experience working with critically ill populations, will approach SDMs in a dignified and compassionate manner and will be attuned to recognise any negative reactions towards being approached about research participation. Other studies have used a similar approach to consent at the time of bereavement,33 and there is some evidence that participating in research may benefit those suffering bereavement.34

Informed consent (verbal, recorded) and data collection will take place 6–8 weeks after the patient’s death. Acknowledging that the ideal timing for this contact may vary among SDMs, we will offer the opportunity to postpone/reschedule the interview up to three times (see Data collection section). We will contact SDMs at a time when they may still be distressed about revisiting a painful memory. Interviews will be conducted by a multidisciplinary team of researchers and clinicians trained in qualitative research methodology and experienced with critically ill populations. Interviewers will undergo internal practice within the research team and with patient-partners from non-profit organisations (eg, Chain of Life). Interviewers will also attend a 1-day workshop run by the Distress Center of Ottawa and Region on how to deal with challenging situations by phone (eg, active listening, communication and empathic assertiveness).

If the interviews exacerbate emotional distress (eg, signs of anxiety, continued crying or an inability to continue the conversation), the interviewers will be instructed to gently interrupt the interview and ask the interviewee if they wish to be referred to medical staff via the site research coordinator who will be immediately notified. The interviewee will also be directed to the Distress Center of Ottawa and Region’s 24/7 Distress Line which offers confidential support for those experiencing difficulties in their life (https://www.docottawa.on.ca/).

We will also have escalation (eg, confidential helpline to each site) and debrief (eg, postinterview reflection forms, regular debrief meetings with the interview team) processes in place to protect the well-being of our interview team in case they are emotionally affected by anything discussed during the interviews and to identify potential researcher burnout.35

All information collected during the study will be held in strict confidence to the extent provided by law. Each patient record and each SDM record will be pseudonymised with a unique study ID and will be kept by the research coordinator at each site. Study data will be collected on paper and electronic case report forms and will be stored for at least 10 years by the principal investigator.

Impact and dissemination

The findings from this study will help to identify key factors affecting substitute decision-making in deceased organ donation, reasons for non-consent and barriers to achieve congruency between SDM and patient wishes.

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Moreover, these data will help us better understand the decision-making process in the context of end-of-life care for critically ill patients in Canada. Findings from this study will inform step 2 of the Understanding Decision Making in the Intensive Care Unit: a National Study, which will involve the design of a national survey among SDMs exploring key factors influencing decision-making regarding deceased organ donation. We also plan to convene a 1-day workshop comprising investigators, stakeholders, knowledge-users and patient-partners to analyse and interpret the main results of the study, identify key elements and strategies for dissemination and help plan for the next steps required to develop an implementation strategy. Ultimately, these data will contribute to the development and evaluation of tools and training for healthcare providers to optimise approaches to support SDMs in the context of organ donation.

This study will be conducted in collaboration with the CCCTG and CDPTRP, whose members will help to guide the analyses, interpretation and dissemination of our findings through feedback at scientific meetings. We have also engaged knowledge translation leaders for organ donation at the Canadian Blood Services, Transplant Québec and Trillium Gift of Life to ensure uptake of the results by relevant stakeholders.

**Study status**

We started enrolment in August 2019, and we expect to complete the study within 12 months (6 months recruitment; 9 months concurrent data analysis).

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