INTRODUCTION

The number of children and adolescents living with life-limiting conditions has increased due to medical and technological advances.¹ These are conditions where there are no curative treatment options left or where a cure might be possible, but could still lead to a premature death.³ The importance of communicating with children and their parents about care options is widely acknowledged. Advance care planning (ACP) is a valuable communication strategy that aligns

Abstract

Aim: This study described the development, and pilot evaluation, of the Implementing Pediatric Advance Care Planning Toolkit (IMPACT).

Methods: Key elements of paediatric advance care planning (ACP) were defined using a systematic review, a survey of 168 paediatricians and qualitative studies of 13 children with life-limiting conditions, 20 parents and 18 paediatricians. Participants were purposively recruited from six Dutch university hospitals during September 2016 and November 2018. Key elements were translated into intervention components guided by theory. The acceptability of the content was evaluated by a qualitative pilot study during February and September 2019. This focused on 27 children with life-limiting conditions from hospitals, a hospice and home care, together with 41 parents, 11 physicians and seven nurses who cared for them.

Results: IMPACT provided a holistic, caring approach to ACP, gave children a voice and cared for their parents. It provided information on ACP for families and clinicians, manuals to structure ACP conversations and training for clinicians in communication skills and supportive attitudes. The 53 pilot study participants felt that IMPACT was appropriate for paediatric ACP.

Conclusion: IMPACT was an appropriate intervention that supported a holistic approach towards paediatric ACP, focused on the child’s perspective and provided care for their parents.

KEYWORDS

advance care planning, care goals, communication, decision-making, life-limiting conditions

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1 | INTRODUCTION

The number of children and adolescents living with life-limiting conditions has increased due to medical and technological advances.¹
future medical care with individual values and preferences, in a timely manner, before the end of life.\textsuperscript{2}

Although medical associations have emphasised the importance of ACP for children with life-limiting conditions, standard ACP approaches in paediatrics have been scarce.\textsuperscript{3,4} Evidence suggests that families and clinicians value the concept of ACP, even earlier in disease trajectories than is normal practice.\textsuperscript{5,6} However, more than 70% of paediatric clinicians reported ACP discussions happened infrequently and too late.\textsuperscript{6,7} Barriers to ACP in pediatrics have included the fear of causing emotional distress in families and difficulties identifying the right time to start.\textsuperscript{6,8}

A growing number of programmes that support the implementation of ACP have been reported in palliative care.\textsuperscript{4} These interventions have mainly focused on adults and might need adjustment for use in paediatrics. This is because of: the stage of the child’s development, the involvement of the parents, the diverse disease trajectories and the specific needs of paediatric end-of-life care. In addition, existing ACP programmes often consist of complex interventions with multiple, interacting, components. This makes adapting for a paediatric setting difficult. Furthermore, detailed descriptions of these complex interventions are lacking in the literature, hindering their use in other contexts.\textsuperscript{9}

The few ACP interventions that have been adapted for use in paediatrics focus mainly on specific patient populations. These include adolescents and young adults with cancer and patients living with acquired immune deficiency syndrome.\textsuperscript{10-12} The focus of these studies, on adolescents and their end-of-life preferences, might hinder both their earlier use in disease trajectories and their use with younger children and their parents. In addition to evidence-based approaches, there are also practice-based initiatives funded by governments or healthcare institutions.\textsuperscript{13} However, the evidence and rationale for these programmes are often unclear, limiting their use in the research and development of ACP. A comprehensive, evidence-based intervention to facilitate ACP for children with life-limiting conditions in general, and their families, both early and later in disease trajectories, has been lacking. Therefore, the Implementing Pediatric Advance Care Planning Toolkit (IMPACT) research project was initiated to facilitate ACP for children with life-limiting conditions and their families, starting shortly after diagnosis and continuing until the end of life. The aims of this study were to describe the developmental process and content of IMPACT so that users could understand the rationale of the intervention and report first impressions of stakeholders using IMPACT.

2 | METHODS

2.1 | Study design

The Framework for the Development and Evaluation of Complex Interventions, which was designed by the Medical Research Council, was used to structure the study design in five steps (Table 1).\textsuperscript{14} These steps integrated evidence from literature, consultation with 28 international experts in paediatric palliative care and the findings from sub-studies performed by the research team within this project. The sub-studies included a systematic review of interventions which guided ACP conversations\textsuperscript{15} and a cross-sectional survey of paediatricians’ experiences with ACP.\textsuperscript{6} They also carried out qualitative interviews with parents,\textsuperscript{16} children and clinicians about their perspectives of ACP. The findings from these sub-studies were considered in relation to existing theoretical concepts. This

### TABLE 1 Overview of the steps in the developmental and pilot phase

| Step | Description |
|------|-------------|
| **Developmental phase** | |
| **Step 1. Identifying the evidence base** | Consensus on the definition of advance care planning (ACP)\textsuperscript{2} |
| | Systematic review of complex interventions guiding ACP conversations\textsuperscript{15} |
| | Expert consultation on evidence for paediatric ACP approaches |
| **Step 2. Exploring stakeholders’ perspectives** | Survey study of paediatricians about experiences with ACP in an actual case, and in general\textsuperscript{6} |
| | Qualitative interviews with healthcare professionals, parents\textsuperscript{16} and children about the sharing of future perspectives |
| **Step 3. Creating a theoretical framework** | The relationship between existing theoretical concepts and the key elements identified from step 1 and 2 |
| | Development of a model for paediatric ACP |
| | Development of a logic model to link key elements of paediatric ACP, underlying theories, interventions components and intended outcomes |
| **Step 4. Modelling the intervention** | Translation of the input from prior steps into the content of individual intervention components |
| | Review of the intervention materials with a multidisciplinary expert team, linguistic experts and parents |
| **Pilot phase** | Qualitative interviews with healthcare professionals, parents and children about the acceptability of the interventions’ materials |
| | Adjustment of intervention materials based on the findings from the qualitative study |
2.2 | Study population

This study focused on Dutch-speaking children with life-limiting conditions under the age of 18, their parents and clinicians. Participants in the sub-studies of the developmental phase were purposefully recruited from six paediatric university hospitals during September 2016 and November 2018. The survey comprised 168 paediatricians, caring for children with life-limiting conditions. Individual interviews were conducted with 18 paediatricians caring for children with life-limiting conditions in order to gain a deeper insight into their perspectives of ACP. A qualitative interview study analysed the perspectives on ACP of 20 parents of children with life-limiting conditions, including 10 bereaved parents. The perspectives that IMPACT provided on children living with a life-limiting condition were explored at the start of the pilot study. Of the 13 children, 11 participated in focus group interviews and two children participated in individual interviews. The children had diverse medical backgrounds and were aged 11 to 18 years. Two children were siblings of a child with a life-limiting condition. Table S1 provides an overview of the participants' characteristics.

The pilot study participants were purposefully recruited from paediatric university hospitals, a hospice and a home care, during February and September 2019. The IMPACT training was attended by 11 physicians and seven nurses, experienced in the care for children with life-limiting conditions. Subsequently, these clinicians invited the parents of children with life-limiting conditions to participate in the study. Some of the children were invited to participate, depending on their age and mental state. The study comprised 25 children with life-limiting conditions, aged six months to 18 years and two patients who reached adulthood, but were still receiving paediatric care due to severe cognitive impairment and growth retardation. The pilot study comprised 26 mothers, 15 fathers and five children. Table S2 provides an overview of the participants' characteristics.

The research ethics committee of the University Medical Center Utrecht decided that the qualitative studies in the developmental phase and pilot phase were exempt from review under the Medical Research Involving Humans Act (27 September 2017, reference number 17-662/C, and 14 November 2018, reference number 18-770/C). All participants provided written informed consent.

2.3 | Data collection and analysis

The data collection and analysis yielded several strategies due to the study design, including different sub-studies. The survey study was based on an online questionnaire, and descriptive statistics were reported. The qualitative studies of the development, and the pilot phase, were based on individual or focus group interviews. These interviews were audio-recorded and transcribed verbatim. A thematic analysis was performed. The results of the sub-studies were presented as narrative summaries that followed the five steps of the study design (Table 1).

3 | RESULTS

3.1 | Step one: the evidence on key paediatric ACP elements

Since a specific definition of ACP in paediatrics was lacking, the European Association for Palliative Care definition was used to formulate the basic key elements. It was seen as a communication process to enable patients to define their preferences and goals for care. It also enabled them to discuss these preferences with their families and the healthcare professionals caring for them and to document, and review these, if appropriate. Although this international definition focused on competent adults, the key elements of ACP that was proposed by this definition were applicable in pediatrics as well. The systematic review of interventions to support ACP conversations revealed four phases: preparation, initiation, exploration and action. A list of the topics to be addressed in each phase was extracted. These included living with illness, living a good life, preferences for care and treatment, perspectives on the end of life and attitudes to decision-making. Topics specific to paediatric ACP were added after consulting experts. These included the child's identity, parenting and family life. Both the findings from the systematic review and expert consultation emphasised the need for clinician training in communication strategies in order to use any ACP conversation guide adequately. Table 2 illustrates the potential for intervention using elements of paediatric ACP derived from the current evidence.

3.2 | Step two: key paediatric ACP elements from the stakeholders' perspectives

The survey study evaluated the stakeholders’ views of ACP from the perspective of paediatricians. These, together with the qualitative research of the parents of children with life-limiting conditions, the children themselves and the clinicians who cared for children with life-limiting conditions, revealed three additional key elements for paediatric ACP (Table 2).

Firstly, education is required about the holistic nature of ACP. The sub-studies showed that paediatricians talk about medical
themes relating to ACP rather than exploring individual family values. Parents wanted paediatricians to explore what their lives were like from a psychological, social and spiritual point of view.

Secondly, the paediatricians, parents and children all emphasised the importance of the child's perspective. However, the paediatricians who took part in the qualitative interviews reported challenging experiences when trying to approach children and communicate adequately with them. Parents saw themselves as the best advocates for their child, yet they struggled to define their child's best interests. Strategies to elicit the voice of the child are needed, either through direct communication with the child or by trying to understand the child's perspective. Thirdly, during the qualitative studies, both the paediatricians and parents expressed the need for a caring attitude when sharing future perspectives. Paediatricians needed to feel confident asking families about sensitive themes. Parents needed genuine attention for their challenging situation. They also stated that their paediatrician's acknowledgement of their child as an individual, and their tasks and expertise as parents, would be a precondition for sharing their deepest thoughts regarding their child's future.

### 3.3 Step three: a theoretical framework

A few of the ACP interventions evaluated by our systematic review relied on a clear theoretical background. Behavioural theories were most commonly used as underlying concepts. The representational approach of patient education explains how exploring patients' perspectives, and tailoring information to them, leads to highly patient-specific processes. Therefore, we concluded that IMPACT should explore the child's and family's experiences and perspectives. It should also guide professionals on when, and how, to provide the family with tailored information during a conversation. Behavioural change theory helps us to understand that the attitudes of both families and clinicians regarding ACP can entail different stages of change, which may influence their level of engagement.

Steps one and two demonstrated the need for a holistic approach and for attention to be paid to the challenges facing families. Therefore, theories about parental coping when caring for a child with a life-limiting condition were used to give insight into the needs of this specific population. The dual process of coping with bereavement theory shows that elements that focus on both loss and restoration are needed to cope with loss. This theory can be helpful in designing interventions that support a caring attitude and include conversation topics that focus on joy and hopes, as well as on fears, worries and worst-case scenarios.

Research into the role of prognostic disclosure indicates that providing such information with sensitivity and realism makes the parent-clinician relationship a source of hope and can help parents endure difficult medical scenarios. Therefore, intervention components...
need to encourage parents and clinicians to address expectations for the future and explore perspectives on worst-case scenarios.

Concepts about parenting roles provided a theoretical foundation for understanding that parents need to feel acknowledged in their challenging role regarding their seriously ill child. Parents aim to control symptoms and disease, create a life worth living for their child and maintain family balance. These aims may, in turn, inform parents’ values and preferences for care and treatment and should therefore be explored in conversations about future care.

The aforementioned theories all relate to the overarching conceptual model of person-centred care. Here, the patient has an active, central role in decision-making and organising their health care with clinicians, and ultimately, this helps the patient lead a meaningful life. ACP can support this person-centred care.

These concepts are reflected in a model for paediatric ACP, which aims to combine the lived experiences and expertise of children and their families with the expertise of the healthcare team (Figure 1). Through mutual identification and sharing perspectives, shared care goals can be achieved and, when appropriate, treatment decisions aligned to provide high-quality, person-centred care from diagnosis to the end of life.

The logic model illustrates how the key elements identified in steps one and two are linked to the underlying theories described in step three (Figure 2).

### 3.4 | Step four: the intervention design

Specific intervention components and their intended outcomes were defined according to the logic model (Figure 2). The intervention components are described in Table 3. These consist of a toolkit for clinicians and families and training for clinicians. The toolkit includes information leaflets about the concept of ACP in order to prepare clinicians and families for an ACP conversation. Conversation guides support the exploration of the perspectives of the child and family members related to psychological, social and spiritual domains, rather than just the physical one. The topics stimulate a conversation about the perspectives of the child, and parents, on living with illness, living a good life and care and treatment preferences. The preparatory materials and the conversation guide include specific questions for children as a means of involving them in the discussion. Besides the exploration of the inner perspectives of family members, an information booklet for clinicians also provides guidance on how to integrate their expertise into a conversation without undermining the family’s perspectives. The conversation guide integrates individual perspectives on the care goals by a process of shared decision-making. The structure of this guide is presented as a single conversation, yet multiple conversations might be needed to discuss all the steps, especially when there are distinctive perspectives within a family or between the family and clinician.

An ACP training session was developed as part of IMPACT in collaboration with communication experts (Wilde Kastanje Training and Education, the Netherlands) (Table 4). The training focused on developing an attitude of open communication. It also taught specific ACP communication skills, such as exploring values, responding to emotions and strategies to achieve a shared point of view on care goals.

### 3.5 | Step five: pilot evaluation

During the interviews with clinicians, parents and children, to evaluate their experiences with IMPACT, all groups reported appreciation of the materials and found them applicable to paediatrics as illustrated by direct quotes (Table S3). Participants perceived that all of the themes mentioned in the IMPACT materials were appropriate for discussions with children and their families. Families valued the attention for their experiences and life views beyond the

![FIGURE 1 Model of paediatric advance care planning](image-url)
Parents reported that they would recommend the information leaflet to other parents. One mother suggested that a question could be added to the information leaflet for parents about the meaning of the serious illness to the family. Clinicians confirmed that the materials were useful in their daily practice, during their conversations with families and when educating their peers. Some clinicians mentioned that the exploratory phase of the conversation guide could be more succinct and these suggestions were adopted in the final version.

During the focus group interviews at the end of the developmental phase, children suggested changing the order of themes in their version of the information leaflet. They felt it inappropriate for them to talk about hopes and dreams after discussing death and dying, and the order was changed as a result of their comments. Children stated that the exploratory phase of the conversation guide could be more succinct and these suggestions were adopted in the final version.

During the focus group interviews at the end of the developmental phase, children suggested changing the order of themes in their version of the information leaflet. They felt it inappropriate for them to talk about hopes and dreams after discussing death and dying, and the order was changed as a result of their comments. Children stated that they valued questions about their hopes and dreams, even if they knew, based on their prognosis, that those wishes might never become true based on the prognosis of the disease. Therefore, the conversation guide includes questions about wishes for their later life, although clinicians need to adapt these questions to the specific context of the child. Children varied in their perspectives on the relevance of questions about death and dying. Some considered these questions relevant, while others felt that death and dying did not need to be mentioned explicitly in the leaflet. However, the questions were not removed from the leaflet. It turned out that, in the pilot phase, children were able to share their perspectives on death and dying if they wanted to. Reading the topic in the leaflet stimulated children to share their preferences about whether or not they wanted to talk about death and dying during the ACP conversation itself.

All of the final IMPACT materials are available online in Dutch and English at: www.kinderpalliatief.nl/impact

4 | DISCUSSION

This study describes the development and evaluation of IMPACT. This paediatric ACP intervention consists of materials to prepare clinicians, children with life-limiting conditions and their parents for ACP conversations. It also helps to guide and document them. The materials incorporate a holistic person-centred approach, stimulate the exploration of the voice of the child and support a caring attitude during the ACP process. Clinicians and families using IMPACT found the materials helpful, applicable to their lives and practice and successful in addressing appropriate themes. Some adjustments in language and layout were made, based on the pilot study.

Our intervention differs from other paediatric ACP approaches in some aspects. Whereas most interventions are tailored to specific diseases or population age, our intervention is intended to be
used in paediatrics in general. Existing approaches have focused on preferences for end of life, yet the intention of ACP, according to current definitions, is to initiate ACP early in a disease trajectory. IMPACT is not primarily focused on the end of life and can be used at earlier phases of the disease trajectory. A strong focus on the end of life might function as a barrier to clinicians initiating ACP due to the fear of distressing families and taking away hope. Therefore, in line with the philosophy of palliative care, IMPACT invites clinicians and families to address both views on living well in the context of a life-limiting condition, as well as views on what is important to them if death is imminent. This gradual approach leaves space for hope as well as a consideration of the future, with a realistic and appropriate understanding of the disease trajectory.

During the developmental process, we noticed that the clinician-patient relationship plays an important role in ACP, both in creating a caring attitude and guaranteeing that the preferences and care goals identified are taken into account. This might be easier when both a primary responsible clinician and the family are involved in ACP. Therefore, our clinician-based intervention differs from facilitator-based ACP approaches.

The strength of the study was the thorough developmental process. Clinicians, children with life-limiting conditions and parents, were all involved during the entire process. This encouraged researchers to stay close to clinical practice and facilitated further implementation of the intervention. By exploring the perspectives of stakeholders, needs in the field could be addressed, increasing the relevance of the intervention for current daily practice. The intervention components were supported by a rationale for acting in a certain way, based on underlying theoretical concepts. This was meant to help identify essential components of the interventions and to help explain the rationale of the intervention to potential users.

A limitation of the study was that system factors were not integrated into the developmental process or the intervention. The intervention is aimed at individual clinicians and families, instead of healthcare institutions. This means that well-known barriers to ACP, such as lack of time and finances, systematic identification of eligible patients and standardised approaches for filing ACP documents in electronic medical records, were not addressed by the intervention. This might limit the implementation of the intervention in daily practice.

| Dimension                  | Description                                                                 |
|----------------------------|-----------------------------------------------------------------------------|
| Mode                       | Face-to-face advance care planning (ACP) conversations                      |
| Materials                  | • Information leaflets for parents to prepare for ACP conversations. These leaflets explain the concept of ACP and provide ACP questions they could think about before the conversation<br>• Information leaflet for children to prepare for the conversation. This little booklet contains fill in the blank line exercises, describing what is important to the child regarding living a good life, living with illness, facing the future, decision-making and preferences for care and treatment<br>• Information brochure for clinicians to educate them about the ACP concept and to provide recommendations for integrating ACP into their daily practice<br>• Preparation card for clinicians to invite families for an ACP conversation<br>• Conversation guide for conversations with the child and parents to guide the conversation and pay attention to the voice of the child<br>• Conversation guide for conversations with parents<br>• Documentation format for use by healthcare professionals, children and parents<br>• Pocket guide for healthcare professionals summarising key elements of IMPACT |
| Location                   | At home, inpatient or outpatient department                                  |
| Schedule                   | The conversation guide is designed so that it can be used for a one-off conversation or split up into multiple conversations, depending on the needs of the child and family |
| Scripting                  | The conversation guide structures the conversation and provides verbal examples for every part of the conversation. Verbal examples need to be adapted to the child’s age and the family’s circumstances |
| Participants’ characteristics | Children living with life-limiting conditions, their parents and families |
| Sensitivity to participants’ characteristics | Information leaflets are tailored to children with life-limiting conditions aged 10 y and above and parents of children with life-limiting conditions of all ages |
| Interventionist characteristics | • Healthcare professionals involved in the care of seriously ill children<br>• A two-day training programme is recommended to optimise the use of the intervention |
| Adaptability               | • Language used during the conversation can be modified, based on the suggested script and skills learnt in the training<br>• The schedule of the conversation can be modified, depending upon patient readiness, disease progression or specific family circumstances |
| Treatment implementation   | • At the end of the conversation, the next steps are defined<br>• Healthcare professionals document the conversation in the medical record<br>• Children and parents receive a sheet to document the conversation for their own records |

*Table based on taxonomy of Schulz.*
practice as it relies on the intrinsic motivation of individual clinicians to use it. However, the toolkit might be a good starting point for healthcare institutions to develop a standardised ACP approach. Other limitations of the study were that the stakeholders involved in the developmental process and the participants of the pilot study were mainly highly educated people with an open attitude towards ACP. This might have positively skewed their perspectives. The children included had varying diseases, prognoses and were in different stages of disease, which might result in different needs. A limitation of the study is that we could not specify the child’s disease progression. That means we could not specify whether the perspectives, as presented by families, corresponded to a position early or later in a disease trajectory. We collected data about the time since diagnosis, but this did not reflect the stage of disease, its burden or length of time until end of life. We translated the perspectives of parents and children into a general approach, but it would be valuable to evaluate whether the individual needs of specific groups were sufficiently addressed by this approach or whether specific groups need a more tailored approach. Currently, the intervention does not include items for children adjusted for age and development, nor does it include items that are tailored to populations with language barriers or cultural differences. Developing components to serve these populations might positively influence the broader application of the intervention. Another limitation of this study is that the qualitative pilot study, as described above, only evaluated experiences with the intervention materials. Ongoing research is needed to identify whether the intervention contributes to the intended outcomes in daily practice and whether the key elements exert their effect, as was hypothesised in the underlying theoretical concept.¹⁴

5 | CONCLUSION

A theory and evidence-based paediatric ACP intervention were developed and tailored to key elements of practice. It provided support materials and clinician training about the concept of ACP, providing strategies on how to address the voice of the child and how to convey to a caring attitude to families throughout their child’s illness. A detailed description of the developmental process and open access to all the intervention’s materials will support further research and implementation in daily practice.

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CONFLICTS OF INTEREST

The authors have no conflicts of interest to declare.

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**SUPPORTING INFORMATION**

Additional supporting information may be found online in the Supporting Information section.

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