

Bereavement Follow-Up After the Death of a Child as a Standard of Care in Pediatric Oncology

Wendy G. Lichtenthal, PhD,^{1*} Corinne R. Sweeney, MA,^{1,2} Kailey E. Roberts, MA,¹ Geoffrey W. Corner, BS,^{1,3} Leigh A. Donovan, BSW,⁴ Holly G. Prigerson, PhD,⁵ and Lori Wiener, PhD⁶

After a child's death to cancer, families commonly want continued connection with the healthcare team that cared for their child, yet bereavement follow-up is often sporadic. A comprehensive literature search found that many bereaved parents experience poor psychological outcomes during bereavement and that parents want follow-up and benefit from continued connection with their child's

healthcare providers. Evidence suggests that the standard of care should consist of at least one meaningful contact between the healthcare team and bereaved parents to identify those at risk for negative psychosocial sequelae and to provide resources for bereavement support. *Pediatr Blood Cancer* 2015;62:S834–S869.

© 2015 Wiley Periodicals, Inc.

Key words: bereaved parents; bereavement; cancer; death of a child; palliative care; pediatric oncology

INTRODUCTION

The loss of a child is considered by many to be the most devastating type of bereavement.[1] Intense and persistent grief reactions are common and may be debilitating for some bereaved family members.[2–4] Protracted grief reactions, such as prolonged grief disorder, are associated with poor psychological and physical health outcomes, including mortality.[5–8] Grief reactions may be compounded by secondary losses, such as the loss of support from the child's medical team, whom the family has come to trust and rely on for comfort and information.[9] An abrupt end to contact soon after the child's death is experienced by some parents as abandonment.[10,11] This loss may be mitigated by providing continuity of care through bereavement to the families from pediatric cancer care facilities.[12] Unfortunately, however, resources, such as dedicated staff and time, are often limited, and thus, families commonly return to their communities without a sustained connection to the medical team.

Bereavement follow-up through telephone calls, emails, and/or mailed cards or letters is considered to be part of good medical care,[13] and the need to provide bereavement care has been increasingly recognized.[14,15] The American Academy of Pediatrics and the Institute of Medicine each call for care to continue through bereavement.[16,17] Many providers make efforts to support bereaved families, but efforts are highly inconsistent, in part, because there are no existing guidelines advising staff on best practices for bereavement follow-up. Several reports have described the obligation that hospitals have to provide some level of bereavement follow-up to the patient's family.[18–21] A recent article suggests that pediatric palliative care physicians have an ethical duty of "nonabandonment" to care for the families of children with life-threatening conditions through their illness and bereavement.[22] Moreover, the child's primary medical team can be an important source of transitional support for bereaved parents and other family members.[17] The objective of this review was to assess and appraise the literature on bereavement outcomes, follow-up, and needs to determine an evidence-based standard for routine assessment of bereavement needs of parents whose children died from cancer.

Psychosocial Standard of Care

A member of the healthcare team should contact the family after a child's death to assess family needs, to identify those at risk for negative psychosocial sequelae, to continue care, and to provide resources for bereavement support.

METHODS

This review was performed as part of the collaborative *Standards for Psychosocial Care of Children with Cancer and Their Families* effort. For a full description of the methods used to develop each standard, refer to Wiener, Kazak, Noll, Patenaude, and Kupst.[23] A comprehensive electronic literature search for articles in PubMed, PsycINFO, CINAHL, EMBASE, SCOPUS, and Web of Science was performed by a medical librarian at Memorial Sloan Kettering Cancer Center. This was an expansion of an initial preliminary literature search conducted in early 2014.

Abbreviations: PRISMA, Preferred Reporting Items for Systematic Reviews and Meta-Analyses

¹Department of Psychiatry and Behavioral Sciences, Memorial Sloan Kettering Cancer Center, New York, New York; ²Department of Psychology, Fairleigh Dickinson University, Teaneck, New Jersey; ³Department of Psychology, University of Southern California, Los Angeles, California; ⁴School of Women's and Children's Health, University of New South Wales, Sydney, Australia; ⁵Department of Medicine, Weill Cornell Medical College, New York, New York; ⁶Pediatric Oncology Branch, National Cancer Institute, National Institutes of Health, Bethesda, Maryland

Grant sponsor: National Cancer Institute (NCI); Grant number: K07 CA172216 and T32 CA009461

Conflict of interest: Nothing to declare.

*Correspondence to: Wendy G. Lichtenthal, Department of Psychiatry and Behavioral Sciences, Memorial Sloan Kettering Cancer Center, 641 Lexington Avenue, 7th Floor, New York, NY 10022.

E-mail: lichtenw@mskcc.org

Received 1 July 2015; Accepted 13 July 2015

Recommendations were generated based on the search findings. The search strategy, recommendations, and potential barriers to implementation of the recommendations were sent for external blinded review. The reviewers were identified through the Standards of Pediatric Psychosocial Oncology Care workgroup.[23] The returned comments noted the need for future evaluative research. Reviewers indicated that there was evidence that parents find bereavement contact helpful, and although more research needs to be done, there is sufficient evidence to indicate that some bereavement contact should be part of good psychosocial care. Reviewers offered recommendations for future research directions. We responded to these reviews by expanding the literature search.

The searches of the English-language literature published from March 1, 1995 to March 1, 2015 combined pediatric cancer terms with bereavement and follow-up-related terms and MeSH headings. See Supplemental Table I for a description of the search terms. Studies were eligible for inclusion if they focused on bereaved parents', siblings', or grandparents' experiences after the loss of a child ages 0–18 at the time of cancer diagnosis and at least one of the following areas: bereavement support programs or interventions for parents; parents, clinicians, or siblings reporting need for follow-up; bereavement outcomes after the death of a child; outcomes associated with bereavement aftercare; predictors of negative bereavement outcomes; and end-of-life care factors associated with bereavement outcomes or need for aftercare. Articles were excluded if they were biomedical in nature and if they focused exclusively on the following topics: diseases other than cancer; psychosocial factors associated with active cancer treatment or survivorship rather than bereavement; experiences of the child with cancer; or bereaved parents of adult children.

Supplemental Figure 1 depicts the review process according to Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) guidelines.[24] For the full-text review phase, the articles

were randomly assigned to six authors (W.L., C.S., K.R., G.C., L.D., and L.W.) to code for exclusion and to extract pre-determined information from each eligible article for the qualitative synthesis. The authors had regular discussions to assure consistent rating of study rigor and to reach consensus about the inclusion and exclusion of all articles.

RESULTS

See Table I for a summary of the evidence extracted from the literature and Supplemental Table II for complete results from the literature review. The review of the evidence demonstrated that bereaved parents experience poor psychological outcomes in bereavement, following up with and supporting bereaved parents is perceived to be helpful, and bereaved families want and need services.

Bereavement Outcomes and Associated Factors

Several studies have demonstrated the psychological challenges parents bereaved by cancer face,[25] with increased rates of depression and anxiety,[26] grief,[27] existential distress, challenges to their sense of identity and meaning-making,[28–30] guilt,[31] and posttraumatic stress disorder.[32] These symptoms commonly persist over time.[26,27] Approximately 10–25% of parents bereaved by cancer experience debilitating levels of grief.[27,33–35] Furthermore, studies have shown that bereaved parents' grief typically persists and often even intensifies after the first year.[34,36] Poorer outcomes have been reported among mothers,[36,37] regardless of cultural background;[38] among parents dissatisfied with their child's medical care;[31] and among those whose children had anxiety or sleep disturbances,[39] a stem cell transplant,[30,40,41] or uncontrolled pain or a difficult death.[31,42]

Families bereaved by cancer also often struggle with isolation due to fear of burdening their support network with their persistent pain

TABLE I. Summary of Evidence Table

Standard	Evidence summary ¹	Methodology ²	Quality of evidence ³	Strength of recommendation ⁴
A member of the healthcare team should contact the family after a child's death to assess family needs, to identify those at risk for negative psychosocial sequelae, to continue care, and to provide resources for bereavement support	<ul style="list-style-type: none"> • Many bereaved parents, siblings, and grandparents experience long-lasting negative outcomes, with a subset debilitated by their distress • Parents have generally indicated their wish for and appreciation of follow-up by the healthcare team after the death of their child • Professional support can assist with grief, particularly among those with more severe, debilitating symptoms 	<ul style="list-style-type: none"> • Quantitative, qualitative, and literature reviews • Majority were cross-sectional surveys and in-depth interviews • Limited randomized controlled trials • Replication of some findings evident 	Moderate quality; findings from lower level evidence studies were consistent	Strong recommendation given risk–benefit ratio, including significant health impact on bereaved family members and positive outcomes with contact made after the death of the child

¹Based on summary of evidence table for that standard; ²Types of studies: for example, randomized controlled trial, cross-sectional, longitudinal; consensus; systematic review articles; ³Quality of evidence: High, moderate, low, and very low (based on Grading of Recommendations, Assessment, Development and Evaluation [GRADE] criteria [109]); ⁴Strength of recommendation: Strong or weak (based on GRADE quality criteria).

[43] and experience decreased social support over time.[29,44] Other family members also struggle after the loss, including some siblings [45–48] (see Gerhardt, Lehmann, Long, and Alderfer[49] in this issue) and grandparents.[50] Being reminded of, speaking about, and feeling connected to the deceased child are frequently described as helpful[51–56] and are associated with better outcomes.[57]

Bereavement Follow-Up Efforts and Formal Interventions

Despite families' risk for poor outcomes, few bereavement follow-up programs and formal interventions to support them have been rigorously evaluated. A systematic review of studies on hospital-based bereavement programs concluded that such programs help families feel cared for, reduce their sense of isolation, and improve their coping.[58] Importantly, in qualitative studies, parents have not reported negative effects of follow-up, and most have expressed appreciation.[59–62] Additionally, staff who engage in bereavement follow-up have also reported that they, too, experience benefits from reaching out to families.[59,63–66]

Without an existing standard of care, however, follow-up attempts by a given medical team are inconsistent,[11,62,67] and some families are never contacted. A variety of practices are used when there is follow-up, including making phone calls; sending cards; attending funerals; providing information and resources; connecting parents with other bereaved parents; acknowledging birthdays, holidays, and anniversaries; visiting the family; holding family meetings; and organizing memorial services.[63,68–71] Qualitative studies have found that phone calls and family meetings after the child's death are beneficial, helping parents feel like their child is remembered, facilitating meaning-making, responding to unanswered questions about their child's care, reassuring them they did everything they could, and providing a sense of closure.[11,64–66,72–76] Of note, some follow-up efforts have been perceived as inadequate,[77] suggesting the importance of training staff. In addition, involving bereaved parents in developing and administering bereavement education programs and interventions has been shown to have great value for them,[28,78] further giving meaning to their child's life.[79]

Need for Bereavement Follow-Up and Mental Health Services

One of the most consistent findings in the literature is that most parents want and appreciate continued connection with the medical team[11,66,80–83] and expect follow-up after their child underwent such intense treatment.[70,77] Parents often value ongoing contact with a provider who knew their child and may appreciate providers connecting them with other bereaved parents.[83–85]

Research has shown that some parents would like, in addition to follow-up, bereavement mental health support,[34,86,87] sometimes well beyond the first year of bereavement.[26,27,34] However, parents, especially minorities, often face barriers in accessing such support.[34,88] For example, although parents often appreciate services from the institution at which their child was treated,[11,44,89] studies have shown that it is emotionally difficult for parents to physically return to the place of treatment,[11,70] which may be, in part, why home visits are desirable.[87] Parents are also frequently concerned about the well-being of their surviving children and want formalized bereaved sibling support.[75,83,87,88,90] Evidence suggests that there are benefits to grief interventions focusing on the entire family.[85,91]

There is a need for effective, evidence-based bereavement mental health services. Although randomized controlled trials are limited, descriptive data suggest that bereavement mental health services can be beneficial,[3] particularly for those with more severe symptoms or prolonged grief disorder.[8,28,58,92] Unfortunately, existing services appear underused,[93] and some are perceived as unhelpful.[2,34,94] Healthcare providers are in a position to link families with bereavement services and should, thus, provide referrals when making contact. There is also a need for screening to identify those in greatest need.[14,15,95] Existing bereavement needs assessments have been described as insufficient,[96] but efforts to develop a more valid, reliable screening tool are underway.[97] Once identified, family members may benefit from interventions designed to prevent or reduce debilitating prolonged grief symptoms.[28,92,98]

DISCUSSION

This review demonstrated that families who lose a child to cancer are at risk for poor bereavement outcomes and desire continued connection to their child's healthcare team.[9,99] Bereaved families often feel abandoned when contact is lacking, creating a secondary loss in addition to the excruciating loss of their child.[70,83,99,100] Contact with staff is commonly wanted by parents and may prove very helpful to families as they transition back to their communities,[80,100] wherein support frequently wanes over time.[36,44]

The IOM has emphasized that bereavement care is a public health priority and should be a part of comprehensive emotional and spiritual care for grieving family members.[17,101] Data suggest that what healthcare providers do around the time of a child's death has a lasting impact on families[102,103] and can be important in processing their own grief.[59,63–66,104] Review of the current available literature provides compelling evidence for the benefit of having a member of the healthcare team contact the bereaved family by phone at least one time after a child's death in order to assess the family's needs, to let them know they and their child have not been forgotten, to identify families who are at risk for negative bereavement outcomes, and to link families to resources for bereavement support in their community.[105,106]

Although the literature included rich evidence on the need for bereavement care and recognized bereavement services, many of the studies reviewed, which were mostly descriptive, cross-sectional, and lacking control groups, had substantial methodological and conceptual weaknesses. Additional limitations included healthy selection biases, underrepresentation of fathers, and lack of racial and ethnic diversity.[34] Future studies should address these limitations, using prospective, longitudinal, and randomized controlled designs with more representative, diverse samples. Specifically, a randomized controlled trial examining the effects of the healthcare team following up with families at least one time and exploring the impact of continued follow-up is warranted. In addition, studies should address the important logistical and emotional barriers that may impede follow-up and the development of bereavement programs [68] through evaluation of continuing education[59,107,108] and organizational structure.[65] Research to strengthen the evidence base on bereavement interventions is also needed.

CONCLUSION

Consistency of findings from 94 studies utilizing different study designs and methodologies supports the importance of healthcare

providers initiating contact with families after the death of a child to cancer. The data suggest that the standard of care should consist of at least one meaningful contact, such as a call, email, or letter, between the healthcare team and bereaved parents following the death of a child to cancer. Efforts to remember the child through, for example, invitations to memorial services or the sending of special occasion cards, are often greatly appreciated.[11,70] Bereavement support from the psychosocial team, including psychoeducation, risk assessment, and referrals to the community when appropriate, should also be offered to all grieving family members.[22,44–47] Although moderate evidence was found, an overall strong recommendation for this standard is given due to minimal risk to families and the consistent evidence of potential long-term benefits.

ACKNOWLEDGMENTS

The authors would like to thank Sarah Jewell and Konstantina (Dina) Matsoukas for their assistance with this project and Fernanda Arnaldez, MD, and Mary Lane, LICSW-C, for their careful review of an earlier version of this article. Dr. Lichtenthal was supported by National Cancer Institute (NCI) grant K07 CA172216. Ms. Roberts was supported by NCI grant T32 CA009461.

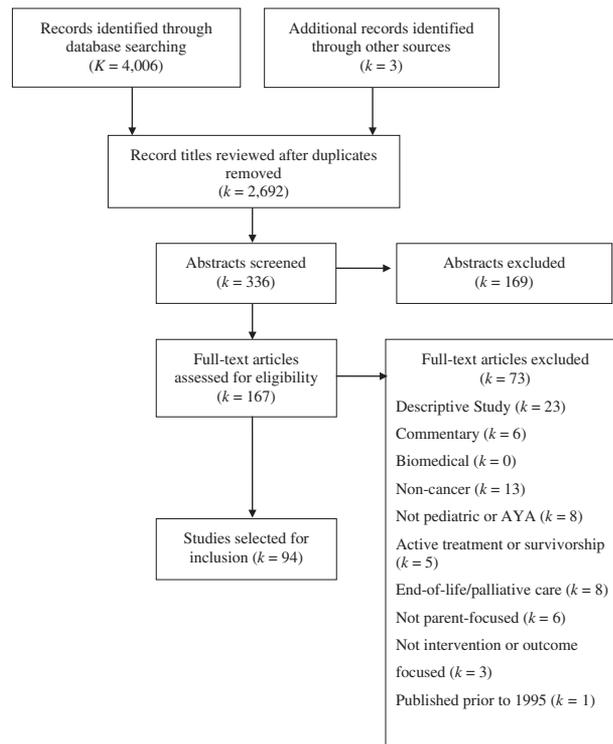
REFERENCES

- Middleton W, Raphael B, Burnett P, Martinek N. A longitudinal study comparing bereavement phenomena in recently bereaved spouses, adult children and parents. *Aust New Zealand J Psychiatry* 1998;32:235–241.
- Arnold J, Gemma PB, Cushman LF. Exploring parental grief: Combining quantitative and qualitative measures. *Arch Psychiatr Nurs* 2005;19:245–255.
- Kreicbergs UC, Lannen P, Onelov E, Wolfe J. Parental grief after losing a child to cancer: Impact of professional and social support on long-term outcomes. *J Clin Oncol* 2007;25:3307–3312.
- Talbot K. Mothers now childless: Survival after the death of an only child. *Omega* 1997;34:177–189.
- Lichtenthal WG, Cruess DG, Prigerson HG. A case for establishing complicated grief as a distinct mental disorder in DSM-V. *Clin Psychol Rev* 2004;24:637–662.
- Li J, Laursen TM, Precht DH, Olsen J, Mortensen PB. Hospitalization for mental illness among parents after the death of a child. *N Engl J Med* 2005;352:1190–1196.
- Li J, Precht DH, Mortensen PB, Olsen J. Mortality in parents after death of a child in Denmark: A nationwide follow-up study. *Lancet* 2003;361:363–367.
- Prigerson HG, Horowitz MJ, Jacobs SC, Parkes CM, Aslan M, Goodkin K, Raphael B, Marwit BJ, Wortman C, Neimeyer RA, Bonanno G, Block SD, Kissane D, Boelen P, Maercker A, Litz BT, Johnson JG, First MB, Maciejewski PK. Prolonged grief disorder: Psychometric validation of criteria proposed for DSM-V and ICD-11. *PLoS Med* 2009;6:e1000121.
- Back AL, Young JP, McCown E, Engelberg RA, Vig EK, Reinke LF, Wenrich MD, McGrath BB, Curtis JR. Abandonment at the end of life from patient, caregiver, nurse, and physician perspectives: Loss of continuity and lack of closure. *Arch Intern Med* 2009;169:474–479.
- Contro NA, Larson J, Scofield S, Sourkes B, Cohen HJ. Hospital staff and family perspectives regarding quality of pediatric palliative care. *Pediatrics* 2004;114:1248–1252.
- Darbyshire P, Cleghorn A, Downes M, Elford J, Gannoni A, McCullagh C, Shute R. Supporting bereaved parents: A phenomenological study of a telephone intervention programme in a paediatric oncology unit. *J Clin Nurs* 2013;22:540–549.
- Russo C, Wong AF. The bereaved parent. *J Clin Oncol* 2005;23:8109–8111.
- Medicine AaOHaP, Care CtAP, Association HaPN, Partnership LA, Organization NHaPC. National consensus project for quality palliative care: Clinical practice guidelines for quality palliative care, executive summary. *J Palliat Med* 2004;7:611–627.
- Hall C, Hudson P, Boughay A. Bereavement support standards for specialist palliative care services. Melbourne, Australia: Department of Health, State Government of Victoria; 2012.
- Hudson P, Remedios C, Zordan R, Thomas K, Clifton D, Crewdson M, Hall C, Trauer T, Bolleter A, Clarke DM, Bauld C. Guidelines for the psychosocial and bereavement support of family caregivers of palliative care patients. *J Palliat Med* 2012;15:696–702.
- Care SoHaPmaCoH. Policy statement pediatric palliative care and hospice care commitments, guidelines, and recommendations. *Pediatrics* 2013;132:966–972.
- Field MJ, Behrman RE, editors. When children die: Improving palliative and end-of-life care for children and their families. Washington, DC: The National Academies Press; 2003.
- deCinque N, Monterosso L, Dadd G, Sidhu R, Lucas R. Bereavement support for families following the death of a child from cancer: Practice characteristics of Australian and New Zealand paediatric oncology units. *J Paediatr Child Health* 2004;40:131–135.
- Heiney SP, Hasan L, Price K. Developing and implementing a bereavement program for a children's hospital. *J Pediatr Nurs* 1993;8:385–391.
- Neidig JR, Dalgas-Pelish P. Parental grieving and perceptions regarding health care professionals' interventions. *Issues Compr Pediatr Nurs* 1991;14:179–191.
- Whittam EH. Terminal care of the dying child. Psychosocial implications of care. *Cancer* 1993;71:3450–3462.
- Jones BL, Contro N, Koch KD. The duty of the physician to care for the family in pediatric palliative care: Context, communication, and caring. *Pediatrics* 2014;133:S8–15.
- Wiener L, Kazak A, Noll R, Patenaude A, Kupst MJ. Standards for psychosocial care of children with cancer and their families: An introduction to the special issue. *Pediatr Blood Cancer* 2015;62(Suppl 5): 419–424.
- Moher D, Liberati A, Tetzlaff J, Altman DG, Group P. Preferred reporting items for systematic reviews and meta-analyses: The PRISMA statement. *PLoS Med* 2009;6:e1000097.

- Kim Y, Lucette A, Loscalzo M. Bereavement needs of adults, children, and families after cancer. *Cancer J* 2013;19:444–457.
- Kreicbergs U, Valdimarsdottir U, Onelov E, Henter JI, Steineck G. Anxiety and depression in parents 4–9 years after the loss of a child owing to a malignancy: A population-based follow-up. *Psychol Med* 2004;34:1431–1441.
- Lannen PK, Wolfe J, Prigerson HG, Onelov E, Kreicbergs UC. Unresolved grief in a national sample of bereaved parents: Impaired mental and physical health 4 to 9 years later. *J Clin Oncol* 2008;26:5870–5876.
- Lichtenthal WG, Breitbart W. The central role of meaning in adjustment to the loss of a child to cancer: Implications for the development of meaning-centered grief therapy. *Curr Opin Support Palliat Care* 2015;9:46–51.
- O'Connor K, Barrera M. Changes in parental self-identity following the death of a child to cancer. *Death Stud* 2014;38:404–411.
- Wu L, Bonanno G, Duhamel K, Redd WH, Rini C, Austin J, Nereo N, Ostroff J, Parsons S, Martini R, Williams S, Mee L, Sexson S, Manne S. Pre-bereavement meaning and post-bereavement distress in mothers of children who underwent haematopoietic stem cell transplantation. *Br J Health Psychol* 2008;13:419–433.
- Surkan PJ, Kreicbergs U, Valdimarsdottir U, Nyberg U, Onelov E, Dickman PW, Steineck G. Perceptions of inadequate health care and feelings of guilt in parents after the death of a child to a malignancy: A population-based long-term follow-up. *J Palliat Med* 2006;9:317–331.
- Ljungman L, Hoven E, Ljungman G, Cernvall M, Essen L. Does time heal all wounds? A longitudinal study of development of posttraumatic stress symptoms in parents of children with cancer. *Psychooncology* 2014;23:323.
- Barrera M, D'Agostino NM, Sneiderman G, Tallet S, Spencer L, Jovcvska V. Patterns of parental bereavement following the loss of a child and related factors. *Omega (Westport)* 2007;55:145–167.
- Lichtenthal WG, Corner GW, Sweeney CR, Wiener L, Roberts KE, Baser R, Li Y, Kissane DW, Breitbart W, Prigerson HG. Mental health services for parents who lost a child to cancer: If we build them, will they come? *J Clin Oncol* 2015;33:2246–2253.
- McCarthy MC, Clarke NE, Ting CL, Conroy R, Anderson VA, Heath JA. Prevalence and predictors of parental grief and depression after the death of a child from cancer. *J Palliat Med* 2010;13:1321–1326.
- Rando TA. An investigation of grief and adaptation in parents whose children have died from cancer. *J Pediatr Psychol* 1983;8:3–20.
- Alam R, Barrera M, D'Agostino N, Nicholas DB, Schneiderman G. Bereavement experiences of mothers and fathers over time after the death of a child due to cancer. *Death Stud* 2012;36:1–22.
- Davies B, Deveau E, deVeber B, Howell D, Martinson I, Papadatou D, Pask E, Stevens M. Experiences of mothers in five countries whose child died of cancer. *Cancer Nurs* 1998;21:301–311.
- Jalmsell L, Kreicbergs U, Onelov E, Steineck G, Henter JI. Anxiety is contagious—symptoms of anxiety in the terminally ill child affect long-term psychological well-being in bereaved parents. *Pediatr Blood Cancer* 2010;54:751–757.
- Drew D, Goodenough B, Maurice L, Foreman T, Willis L. Parental grieving after a child dies from cancer: Is stress from stem cell transplant a factor? *Int J Palliat Nurs* 2005;11:266–273.
- Jalmsell L, Onelov E, Steineck G, Henter JI, Kreicbergs U. Hematopoietic stem cell transplantation in children with cancer and the risk of long-term psychological morbidity in the bereaved parents. *Bone Marrow Transplant* 2011;46:1063–1070.
- Kreicbergs U, Valdimarsdottir U, Onelov E, Bjork O, Steineck G, Henter JI. Care-related distress: A nationwide study of parents who lost their child to cancer. *J Clin Oncol* 2005;23:9162–9171.
- Barrera M, O'Connor K, D'Agostino NM, Spencer L, Nicholas D, Jovcvska V, Tallet S, Schneiderman G. Early parental adjustment and bereavement after childhood cancer death. *Death Stud* 2009;33:497–520.
- Donovan L, Wakefield CE, Russell V, Lichtenthal W, Cohn R. Transitional social support: A developing framework for hospital-based bereavement care following the death of a child. Under review.
- Barrera ME, Alam R, D'Agostino N, Nicholas D, Schneiderman G. Parental report of developmental differences in siblings' grieving and coping experiences after childhood cancer death. *Psychooncology* 2010;19:S22–S23.
- Eilertsen ME, Eilegard A, Steineck G, Nyberg T, Kreicbergs U. Impact of social support on bereaved siblings' anxiety: A nationwide follow-up. *J Pediatr Oncol Nurs* 2013;30:301–310.
- Foster TL, Gilmer MJ, Vannatta K, Barrera M, Davies B, Dietrich MS, Fairclough DL, Gerhardt CA. Changes in siblings after the death of a child from cancer. *Cancer Nurs* 2012;35:347–354.
- Gerhardt CA, Fairclough DL, Grossenbacher JC, Barrera M, Gilmer MJ, Foster TL, Compas BE, Davies B, Hogan NS, Vannatta K. Peer relationships of bereaved siblings and comparison classmates after a child's death from cancer. *J Pediatr Psychol* 2012;37:209–219.
- Gerhardt CA, Lehmann V, Long KA, Alderfer MA. Supporting siblings as a standard of care in pediatric oncology. *Pediatr Blood Cancer* 2015;62(Suppl 5):750–804.
- Gilrane-McGarry U, O'Grady T. Forgotten grievers: An exploration of the grief experiences of bereaved grandparents. *Int J Palliat Nurs* 2011;17:170–176.
- Foster TL, Gilmer MJ, Davies B, Dietrich MS, Barrera M, Fairclough DL, Vannatta K, Gerhardt CA. Comparison of continuing bonds reported by parents and siblings after a child's death from cancer. *Death Stud* 2011;35:420–440.
- Sormanti M, August J. Parental bereavement: Spiritual connections with deceased children. *Am J Orthopsychiatry* 1997;67:460–469.
- Thompson AL, Miller KS, Barrera M, Davies B, Foster TL, Gilmer MJ, Hogan N, Vannatta K, Gerhardt CA. A qualitative study of advice from bereaved parents and siblings. *J Soc Work End Life Palliat Care* 2011;7:153–172.
- Toller P. Bereaved parents' experiences of supportive and unsupportive communication. *South Commun J* 2011;76:17–34.
- Wiener L, Aikin A, Gibbons MB, Hirschfeld S. Visions of those who left too soon. *Am J Nurs* 1996;96:57–61.
- Woodgate RL. Living in a world without closure: Reality for parents who have experienced the death of a child. *J Palliat Care* 2006;22:75–82.
- Gerrish NJ, Neimeyer RA, Bailey S. Exploring maternal grief: A mixed-methods investigation of mothers' responses to the death of a child from cancer. *J Constr Psychol* 2014;27:151–173.
- Donovan LA, Wakefield CE, Russell V, Cohn RJ. Hospital-based bereavement services following the death of a child: A mixed study review. *Palliat Med* 2015;29:193–210.
- Ruden BM. Bereavement follow-up: An opportunity to extend nursing care. *J Pediatr Oncol Nurs* 1996;13:219–225.
- Stutzer CA. Developing a bereavement follow-up program for families of children who die of cancer. *J Pediatr Oncol Nurs* 1991;8:69.
- Brooten D, Youngblut JM, Seagrave L, Caicedo C, Hawthorne D, Hidalgo I, Roche R. Parent's perceptions of health care providers actions around child icu death: What helped, what did not. *Am J Hospice Palliat Med* 2013;30:40–49.
- Contro N, Larson J, Scofield S, Sourkes B, Cohen H. Family perspectives on the quality of Pediatric Palliative Care. *Arch Pediatr Adolesc Med* 2002;156:14–19.
- Thrane S, Jones BL. Communication with families after the death of a child: A pilot study. *J Hospice Palliat Nurs* 2012;14:6–10.

64. Meert KL, Eggly S, Berger J, Zimmerman J, Anand KJS, Newth CJL, Harrison R, Carcillo J, Dean JM, Willson DF, Nicholson C, Eunice Kennedy Shriver National Institute of Child Health and Human Development Collaborative Pediatric Critical Care Research Network. Physicians' experiences and perspectives regarding follow-up meetings with parents after a child's death in the pediatric intensive care unit. *Pediatr Crit Care Med* 2011;12:E64-E68.
65. Meert KL, Eggly S, Berg RA, Wessel DL, Newth CJ, Shanley TP, Harrison R, Dalton H, Clark AE, Dean JM, Doctor A, Nicholson CE. Feasibility and perceived benefits of a framework for physician-parent follow-up meetings after a child's death in the PICU. *Crit Care Med* 2014;42:148-157.
66. Clerici CA, Ferrari A, Massimino M, Luksch R, Cefalo G, Terenziani M, Casanova M, Spreafico F, Polastri D, Meazza C, Podda M, Fossati-Bellani F. Assistance to parents who have lost their child with cancer. *Tumori* 2006;92:306-310.
67. Hechler T, Blankenburg M, Friedrichsdorf SJ, Garske D, Hubner B, Menke A, Wamsler C, Wolfe J, Zernikow B. Parents' perspective on symptoms, quality of life, characteristics of death and end-of-life decisions for children dying from cancer. *Klin Padiatr* 2008;220:166-174.
68. Grank L, Barrera M, Scheinmann K, Bartels U. When a child dies: Pediatric oncologists' follow-up practices with families after the death of their child. *Psychooncology* 2015. [epub ahead of print].
69. Coppnell B. Death in the pediatric ICU: Caring for children and families at the end of life. *Crit Care Nurs Clin North Am* 2005;17:349-360.
70. Macdonald ME, Liben S, Carnevale FA, Rennick JE, Wolf SL, Meloche D, Cohen SR. Parental perspectives on hospital staff members' acts of kindness and commemoration after a child's death. *Pediatrics* 2005;116:884-890.
71. Nikkola I, Kaunonen M, Aho AL. Mother's experience of the support from a bereavement follow-up intervention after the death of a child. *J Clin Nurs* 2013;22:1151-1162.
72. Eggly S, Manning MA, Slatcher RB, Berg RA, Wessel DL, Newth CJL, Shanley TP, Harrison R, Dalton H, Dean JM, Doctor A, Jenkins T, Meert KL. Language Analysis as a Window to Bereaved Parents' Emotions During a Parent-Physician Bereavement Meeting. *J Lang Soc Psychol* 2015;34:181-199.
73. Meert KL, Eggly S, Pollack M, Anand KJS, Zimmerman J, Carcillo J, Newth CJL, Dean JM, Willson DF, Nicholson C. Parents' perspectives regarding a physician-parent conference after their child's death in the pediatric intensive care unit. *J Pediatr* 2007;151:50-55.e52.
74. Eggly S, Meert KL, Berger J, Zimmerman J, Anand KJ, Newth CJ, Harrison R, Carcillo J, Dean JM, Willson DF. Physicians' conceptualization of "closure" as a benefit of physician-parent follow-up meetings after a child's death in the pediatric intensive care unit. *J Palliat Care* 2013;29:69-75.
75. Dent A, Condon L, Blair P, Fleming P. A study of bereavement care after a sudden and unexpected death. *Arch Dis Child* 1996;74:522-526.
76. Stein J, Peles-Borz A, Buchval I, Klein A, Yaniv I. The bereavement visit in pediatric oncology. *J Clin Oncol* 2006;24:3705-3707.
77. Laakso H, Paunonen-Ilmonen M. Mothers' grief following the death of a child. *J Adv Nurs* 2001;36:69-77.
78. Eggly S, Meert KL, Berger J, Zimmerman J, Anand KJ, Newth CJ, Harrison R, Carcillo J, Dean JM, Willson DF, Nicholson C. A framework for conducting follow-up meetings with parents after a child's death in the pediatric intensive care unit. *Pediatr Crit Care Med* 2011;12:147-152.
79. Adams G, Green A, Towe S, Huett A. Bereaved caregivers as educators in pediatric palliative care: Their experiences and impact. *J Palliat Med* 2013;16:609-615.
80. Steele AC, Kaal J, Thompson AL, Barrera M, Compas BE, Davies B, Fairclough DL, Foster TL, Jo Gilmer M, Hogan N, Vannatta K, Gerhardt CA. Bereaved parents and siblings offer advice to health care providers and researchers. *J Pediatric Hematol Oncol* 2013;35:253-259.
81. Fujii Y, Watanabe C, Okada S, Inoue N, Endoh A, Yajima S, Hongo T, Ohzeki T, Suzuki E. Analysis of the circumstances at the end of life in children with cancer: A single institution's experience in Japan. *Pediatr Int* 2003;45:54-59.
82. D'Agostino NM, Berlin-Romalis D, Jovcevska V, Barrera M. Bereaved parents' perspectives on their needs. *Palliat Support Care* 2008;6:33-41.
83. deCinque N, Monterosso L, Dadd G, Sidhu R, Macpherson R, Aoun S. Bereavement support for families following the death of a child from cancer: Experience of bereaved parents. *J Psychosoc Oncol* 2006;24:65-83.
84. Macdonald ME, Liben S, Carnevale FA, Rennick JE, Wolf SL, Meloche D, Cohen SR. Parental perspectives on hospital staff members' acts of kindness and commemoration after a child's death. *Pediatrics* 2005;116:884-890.
85. Aho AL, Astedt-Kurki P, Tarkka M, Kaunonen M. Development and implementation of a bereavement follow-up intervention for grieving fathers: An action research. *J Clin Nurs* 2011;20:408-419.
86. Baker JN, Windham JA, Hinds PS, Gattuso JS, Mandrell B, Gajjar P, West NK, Hammarback T, Bronsiger A. Bereaved parents' intentions and suggestions about research autopsies in children with lethal brain tumors. *J Pediatr* 2013;163:581-586.
87. Welch JG, Mannix MM, Boergers J, Jelalian E, Barbosa F, Fujii-Rios H, Forman EN. Parental interest in a bereavement support visit when a child dies from cancer. *Omega (Westport)* 2012;65:335-346.
88. Flahault C, Seigneur E, Laurence V, Pacquement H, Montel S. Parents who have lost a child to cancer: What do they really need? *Psychology* 2015;6:665-671.
89. Russo C, Wong AF. The bereaved parent. *J Clin Oncol* 2005;23:8109-8111.
90. Goldstein R, Rimer KP. Parents' views of their child's end-of-life care: Subanalysis of primary care involvement. *J Palliat Med* 2013;16:198-202.
91. Kissane DW, McKenzie M, Bloch S, Moskowitz C, McKenzie DP, O'Neill I. Family focused grief therapy: A randomized, controlled trial in palliative care and bereavement. *Am J Psychiatry* 2006;163:1208-1218.
92. Shear K, Frank E, Houck PR, Reynolds CF, III. Treatment of complicated grief: A randomized controlled trial. *JAMA* 2005;293:2601-2608.
93. Johnston DL, Nagel K, Friedman DL, Meza JL, Hurwitz CA, Friebert S. Availability and use of palliative care and end-of-life services for pediatric oncology patients. *J Clin Oncol* 2008;26:4646-4650.
94. Donovan LA, Wakefield CE, Russell V, Cohn RJ. Hospital-based bereavement services following the death of a child: A mixed study review. *Palliat Med* 2014.
95. Aranda S, Milne D. Guidelines for the assessment of complicated bereavement risk in family members of people receiving palliative care. Melbourne. Australia: Centre for Palliative Care; 2000.
96. Meert KL, Schim SM, Briller SH. Parental bereavement needs in the pediatric intensive care unit: Review of available measures. *J Palliat Med* 2011;14:951-964.
97. Roberts K, Sweeney C, Holland J, Corner G, Schachter S, Breitbart W, Prigerson HG, Lichtenthal WG. Preliminary development of the bereavement risk questionnaire: Expert feedback. In preparation.
98. Litz BT, Schorr Y, Delaney E, Au T, Papa A, Fox AB, Morris S, Nickerson A, Block S, Prigerson HG. A randomized controlled trial of an internet-based therapist-assisted indicated preventive intervention for prolonged grief disorder. *Behav Res Ther* 2014;61:23-34.
99. deJong-Berg MA, Kane L. Bereavement care for families part 2: Evaluation of a paediatric follow-up programme. *Int J Palliat Nurs* 2006;12:484-494.
100. D'Agostino NM, Berlin-Romalis D, Jovcevska V, Barrera M. Bereaved parents' perspectives on their needs. *Palliat Support Care* 2008;6:33-41.
101. Institute of Medicine Committee on Approaching Death. Dying in America: Improving quality and honoring individual preferences near the end of life. Washington, DC: National Academies Press; 2015.
102. Brosig CL, Pierucci RL, Kupst MJ, Leuthner SR. Infant end-of-life care: The parents' perspective. *J Perinatol* 2007;27:510-516.
103. Meert KL, Eggly S, Pollack M, Anand KJ, Zimmerman J, Carcillo J, Newth CJ, Dean JM, Willson DF, Nicholson C. Parents' perspectives regarding a physician-parent conference after their child's death in the pediatric intensive care unit. *J Pediatr* 2007;151:50-55. 55 e51-52.
104. Borasino S, Morrison W, Silberman J, Nelson RM, Feudtner C. Physicians' contact with families after the death of pediatric patients: A survey of pediatric critical care practitioners' beliefs and self-reported practices. *Pediatrics* 2008;122:e1174-e1178.
105. Wolfe J, Hinds PS, Sourkes BM. Textbook of interdisciplinary pediatric palliative care. Philadelphia: Elsevier/Saunders; 2011. xiii p. 492.
106. Davies B, Limbo R, Jin J. Grief and bereavement in pediatric palliative care. In: Ferrell BR, Coyle N, editors. *Oxford textbook of palliative nursing*. 3rd ed. New York: Oxford University Press; 2010. p. 1081-1097.
107. Liisa AA, Marja-Terttu T, Päivi AK, Marja K. Health care personnel's experiences of a bereavement follow-up intervention for grieving parents. *Scand J Caring Sci* 2011;25:373-382.
108. Contro N, Sourkes BM. Opportunities for quality improvement in bereavement care at a children's hospital: Assessment of interdisciplinary staff perspectives. *J Palliat Care* 2012;28:28-35.
109. Guyatt GH, Oxman AD, Vist GE, Kunz R, Falck-Ytter Y, Alonso-Coello P, Schunemann HJ, Group GW. GRADE: An emerging consensus on rating quality of evidence and strength of recommendations. *BMJ* 2008;336:924-926.

SUPPLEMENTARY INFORMATION



Supplemental Fig. 1. PRISMA flow chart.

SUPPLEMENTAL TABLE I. Search Terms

MEDLINE Search Strategy

1. (die OR dies OR grief OR griev* OR bereave* OR condolence* OR funeral OR autopsy)
2. (parent* OR caregiver* OR mother* OR father* OR maternal OR paternal)
3. (infan* OR newborn* OR new-born* OR perinat* OR neonat* OR baby OR baby* OR babies OR toddler* OR minors OR minors* OR boy OR boys OR boyhood OR girl* OR kid OR kids OR child OR child* OR children* OR schoolchild* OR schoolchild OR school child[tiab] OR school child*[tiab] OR adolescen* OR juvenil* OR youth* OR teen* OR under*age* OR pubescen* OR pediatrics[mh] OR pediatric* OR paediatric* OR peadiatric* OR school[tiab] OR school*[tiab])
4. (cancer OR cancers OR oncology OR oncolog* OR neoplasms OR neoplas* OR carcinoma OR carcinom* OR tumor OR tumour OR malignan* OR hematocological OR hemato oncological OR hemato-oncological OR hematologic neoplasms OR hematolo* OR bone marrow transplantation OR bone marrow transplant* OR lymphoma OR leukemia OR leukemi* OR leukaemi* OR lymphoma OR lymphom* OR hodgkin OR hodgkin* OR t-cell OR b-cell OR non-hodgkin OR sarcoma OR sarcom* OR sarcoma, ewing's OR Ewing* OR osteosarcoma OR osteosarcom* OR wilms tumor OR wilms* OR nephroblastom* OR neuroblastoma OR neuroblastom* OR rhabdomyosarcoma OR rhabdomyosarcom* OR teratoma OR teratom* OR hepatoma OR hepatom* OR hepatoblastoma OR hepatoblastom* OR pnet OR medulloblastoma OR medulloblastom* OR PNET* OR neuroectodermal tumors, primitive OR retinoblastoma OR retinoblastom* OR meningioma OR meningiom* OR glioma OR gliom*)
5. 1 and 2 and 3 and 4
6. (pediatric oncology OR paediatric oncology)
7. (childhood cancer OR childhood tumor OR childhood tumors)
8. (brain tumor OR brain tumour* OR brain neoplasms OR central nervous system neoplasm OR central nervous system neoplasms OR central nervous system tumor OR central nervous system tumour* OR brain cancer* OR brain neoplasm* OR intracranial neoplasm*)
9. (leukemia, lymphocytic, acute[mh])
10. 5 or 6 or 7 or 8 or 9
11. 5 and 10
12. limit 11 to English language
13. limit 12 to yr = "1995 - Current"

SUPPLEMENTAL TABLE II. Literature Review Results

Study	Design	Sample	Findings*	Study Rigor	Level of evidence
Bereavement Outcomes and Associated Factors					
Alam, Barrera, D'Agostino, Nicholas, & Schneiderman (2012) [1]	<ul style="list-style-type: none"> Mostly in-person, semi-structured interviews with bereaved parents 6 and 18 months after their loss Qualitative Longitudinal 	<ul style="list-style-type: none"> Bereaved parents who lost a child treated in a hematology/ oncology unit at a hospital (n = 31, parents from 20 families) Canada 	<ul style="list-style-type: none"> Mothers had more intense grief than fathers that lessened over time Parents reported diversity in the relationship with their spouses over time, with both patterns of improvement and increased strain 	<p>Strengths</p> <ul style="list-style-type: none"> Research question clearly stated Qualitative approach clearly justified Study context clearly described Role of the researcher clearly described Sampling strategy appropriate for research question Method of data collection clearly described Method of data analysis clearly described Analysis appropriate for research question <p>Limitations</p> <ul style="list-style-type: none"> Limited participation of fathers Limited cultural diversity of sample 	6
Barrera, D'Agostino, Schneiderman, Tallett, Spencer, & Jovcevska (2007) [2]	<ul style="list-style-type: none"> Cross-sectional Mixed methods study Two standardized questionnaires measuring depression and grief Face-to-face interview exploring patterns of parental bereavement 	<ul style="list-style-type: none"> Bereaved parents (n = 20) of children who had died following a diagnosis of cancer (n = 9), congenital heart disease (n = 3), meningitis or drowning (n = 3) Canada 	<ul style="list-style-type: none"> Three bereavement patterns were identified: 65% of parents presented uncomplicated <i>Integrated grief</i>, five mothers (25%) were <i>Consumed by grief</i>, and one mother and one father expressed <i>Minimal grief</i> (10%) (within <i>minimal</i> defined as inhibition and avoidance of expression of emotional pain) Parental gender, symptoms of depression and pre-death relationship between parents and their deceased child differentially related to these patterns Having surviving children, social support and being active appeared to help to integrate grief into daily life 	<p>Strengths</p> <ul style="list-style-type: none"> Research question clearly stated Qualitative approach clearly justified Study context clearly described Method of data collection clearly described Method of data analysis clearly described Analysis appropriate for research question <p>Limitations</p> <ul style="list-style-type: none"> Insufficient sample size 	6
Barrera, O'Connor, D'Agostino, Spencer, Nicholas, Jovcevska, Tallett, & Schneiderman (2009) [3]	<ul style="list-style-type: none"> Cross-sectional Qualitative Individual, semi-structured interviews exploring parental bereavement and adjustment after childhood cancer death 	<ul style="list-style-type: none"> Bereaved parents who lost a child to cancer (n = 31; n = 18 mothers, n = 13 fathers) Canada 	<ul style="list-style-type: none"> 90% of parents spoke of the importance of maintaining a relationship with their deceased child in their adjustment Some parents did not want to burden members of their social network with requests for help or with their intense emotions, which ultimately led to isolation from social support, often having become disconnected from support while their child was ill At 6 months post-loss, nearly all parents were able to report some resolution of their shattered view of life 	<p>Strengths</p> <ul style="list-style-type: none"> Research question clearly stated Qualitative approach clearly justified Study context clearly described Role of the researcher clearly described Sampling strategy appropriate for research question Method of data collection clearly described Method of data analysis clearly described 	6

(Continued)

SUPPLEMENTAL TABLE II. (Continued)

Study	Design	Sample	Findings*	Study Rigor	Level of evidence
Barrera, Alam, D'Agostino, Nicholas, & Schneiderman (2010) [4]	<ul style="list-style-type: none"> • Longitudinal • Qualitative • Individual, semi-structured interviews exploring parental and sibling bereavement and adjustment after childhood cancer death 	<ul style="list-style-type: none"> • Bereaved parents who lost a child to cancer (n = 31; n = 19 mothers, n = 12 fathers) • Canada 	<ul style="list-style-type: none"> • Themes included: <ol style="list-style-type: none"> 1) Expression of grief (older siblings: intense grief; younger siblings: delayed grief) 2) Siblings coping (resuming daily routine for both groups, talking with friends and counselling for older siblings) 3) Bond with deceased sibling (younger siblings: pretend-play, using their belongings; older siblings: building legacy) 	<p>Strengths</p> <ul style="list-style-type: none"> • Research question clearly stated • Qualitative approach clearly justified • Study context clearly described • Method of data analysis clearly described <p>Limitations</p> <ul style="list-style-type: none"> • Symposium abstract – not able to fully assess rigor 	6
Birenbaum, Stewart, & Phillips (1996) [5]	<ul style="list-style-type: none"> • Longitudinal • Descriptive • Questionnaire and interview administered at terminal phase and 2 weeks, 4 months and 1 year after death 	<ul style="list-style-type: none"> • Parents of children dying from cancer (n = 80, n = 47 mothers, n = 33 fathers) • USA 	<ul style="list-style-type: none"> • Health of bereaved parents did not differ significantly from a normative group of adults on symptom scales • Mothers demonstrated lower levels of social health compared with the normal sample • Results on the four health scales did not differ from the normative sample 	<p>Strengths</p> <ul style="list-style-type: none"> • Sufficient sample size • Data collection appropriate to study method • Appropriate analysis <p>Limitations</p> <ul style="list-style-type: none"> • Selective reporting 	4
Davies (1987) [6]	<ul style="list-style-type: none"> • Interviews with family members • Qualitative 	<ul style="list-style-type: none"> • Families who lost a child to cancer 2-36 months prior (n = 34) • USA • Canada 	<ul style="list-style-type: none"> • Discrepant meanings within the family may vary and may influence bereavement outcomes 	<p>Strengths</p> <ul style="list-style-type: none"> • Research question clearly stated • Qualitative approach clearly justified • Study context clearly described • Interviews coded; high inter-coder reliability (91-100%) <p>Limitations</p> <ul style="list-style-type: none"> • Interviews not audio recorded 	6
Davies, Deveau, deVeber, Howell, Martinson, Papadatou, Pask, & Stevens (1998) [7]	<ul style="list-style-type: none"> • Cross-sectional • Semi-structured interviews • SCL-90 	<ul style="list-style-type: none"> • Mothers from 5 different countries who lost a child to cancer up to 6 months ago (n = 21) • Canada, • Norway • Greece • Hong Kong • USA • Couples bereaved by cancer (n = 86 individuals from 32 couples) • USA 	<ul style="list-style-type: none"> • No culturally related differences were found among mothers • Mothers described similar challenges in coping with bereavement 	<p>Strengths</p> <ul style="list-style-type: none"> • Interviews coded by pairs of coders, second pair checked coding <p>Limitations</p> <ul style="list-style-type: none"> • Interview guide translated into 5 languages may have resulted in different interpretations of questions 	6
Domingue (2010) [8]	<ul style="list-style-type: none"> • Cross-sectional, correlational study • Used standardized questionnaires • Used multiple regression 	<ul style="list-style-type: none"> • Couples bereaved by cancer (n = 86 individuals from 32 couples) • USA 	<ul style="list-style-type: none"> • Retrospective attachment was associated with grief • Discrepancies in attachment styles in couples was moderated by time since the death • Social support was associated with psychological distress, marital satisfaction, and some aspects of grief • Retrospective insecure attachment was associated with grief oscillation 	<p>Strengths</p> <ul style="list-style-type: none"> • Sufficient sample size • Data collection appropriate to study method <p>Limitations</p> <ul style="list-style-type: none"> • Reporting not comprehensively, clearly described • Issues with missing data not clearly described • Incorrect analysis, did not account for correlated data within couples • No matched control/comparison group 	4

(Continued)

SUPPLEMENTAL TABLE II. (Continued)

Study	Design	Sample	Findings*	Study Rigor	Level of evidence
Drew, Goodenough, Maurice, Foreman, & Willis (2005) [9]	<ul style="list-style-type: none"> • Cross-sectional • Case-matched design 	<ul style="list-style-type: none"> • Bereaved parents (n = 56; 28 whose children received stem cell transplant (SCT), 28 whose children who did not receive SCT) • Australia 	<ul style="list-style-type: none"> • SCT group showed higher levels of depression, anxiety, and stress • For those who died in hospital, SCT group has greater traumatic grief levels 	<p>Strengths</p> <ul style="list-style-type: none"> • Sufficient sample size • Blinding or data collection appropriate to study method • Appropriate analysis • Evidence derived from high quality case control or cohort studies <p>Limitations</p> <ul style="list-style-type: none"> • Reporting comprehensive, clearly described 	3
Dussel, Bona, Heath, Hilden, Weeks, & Wolfe (2011) [10]	<ul style="list-style-type: none"> • Cross-sectional survey 	<ul style="list-style-type: none"> • Bereaved parents who lost a child to cancer (n = 250) • USA • Australia 	<ul style="list-style-type: none"> • Families reported a great deal of financial hardship • Poverty and income loss associated with financial hardship 	<p>Strengths</p> <ul style="list-style-type: none"> • Reporting from three tertiary-care pediatric sites • Large sample size <p>Limitations</p> <ul style="list-style-type: none"> • Retrospective reporting • Cross-sectional design does not allow for comparisons of financial difficulties across disease trajectory 	4
Eilegard & Kreicbergs (2010) [11]	<ul style="list-style-type: none"> • Cross-sectional • Self-report questionnaires • Matched control design 	<ul style="list-style-type: none"> • Bereaved parents who lost a child to cancer (n = 449) and matched controls with a living child (n = 457) • Sweden 	<ul style="list-style-type: none"> • Bereaved parents were significantly more likely to be married to or to be living with their child's other parent than matched controls 	<p>Strengths</p> <ul style="list-style-type: none"> • Sufficient sample size • Data collection appropriate to study method <p>Limitations</p> <ul style="list-style-type: none"> • Appropriate analysis • No data collected about when parents got married 	4
Eilertsen, Eilegard, Steineck, Nyberg, & Kreicbergs (2013) [12]	<ul style="list-style-type: none"> • Longitudinal • Individual descriptive • Study specific questionnaire which included the Hospital Anxiety and Depression Scale measuring sibling anxiety and Social Support Questionnaire assessing satisfaction with social support 	<ul style="list-style-type: none"> • Siblings bereaved by cancer (n = 174; including n = 73 men, n = 101 women of 240 eligible) • Sweden 	<ul style="list-style-type: none"> • Siblings had a higher risk of anxiety if social support needs (support from family) were unsatisfied within the last month before their sibling's death • Siblings who did not perceive their parents and neighbors cared for them after their brother's or sister's death demonstrated higher risk for anxiety 	<p>Strengths</p> <ul style="list-style-type: none"> • Sufficient sample size • Study completed as planned • Appropriate analysis • No significant losses to follow up or missing data <p>Limitations</p> <ul style="list-style-type: none"> • Lack of blinding • Selective reporting 	6
Foster, Gilmer, Davies, Barrera, Fairclough, Vannatta, & Gerhardt (2009) [13]	<ul style="list-style-type: none"> • Mixed methods • Questionnaires • Semi-structured interviews 	<ul style="list-style-type: none"> • Families of children who died from cancer (n = 36 mothers, n = 27 fathers, and n = 40 siblings from 40 families) • USA • Canada 	<ul style="list-style-type: none"> • Legacies included bereaved individuals remembering children's qualities, children's concern for family members while alive, and beliefs about afterlife 	<p>Strengths</p> <ul style="list-style-type: none"> • Research question clearly stated • Qualitative approach clearly justified • Study context clearly described • Role of the researcher clearly described • Sampling strategy appropriate for research question • Method of data collection clearly described <p>Limitations</p> <ul style="list-style-type: none"> • Lack of diverse sample • Retrospective reporting 	6

(Continued)

SUPPLEMENTAL TABLE II. (Continued)

Study	Design	Sample	Findings*	Study Rigor	Level of evidence
Foster, Gilmer, Davies, Dietrich, Barrera, Fairclough, Vannatta, & Gerhardt (2011) [14]	<ul style="list-style-type: none"> Mixed methods Questionnaires Semi-structured interviews 	<ul style="list-style-type: none"> Mothers (n = 36), fathers (n = 24), and siblings (n = 39), bereaved by cancer 	<ul style="list-style-type: none"> Over half of participants reported comforted effects from reminders of the deceased child 	<p>Strengths</p> <ul style="list-style-type: none"> Research question clearly stated Qualitative approach clearly justified Study context clearly described Role of the researcher clearly described Sampling strategy appropriate for research question Method of data collection clearly described <p>Limitations</p> <ul style="list-style-type: none"> Lack of diverse sample 	6
Foster, Gilmer, Vannatta, Barrera, Davies, Dietrich, Fairclough, & Gerhardt (2012) [15]	<ul style="list-style-type: none"> Cross-sectional study investigating losing a sibling to cancer from the perspectives of parents and siblings Home interviews 	<ul style="list-style-type: none"> Parents (n = 36 mothers and n = 24 fathers) and siblings (n = 39) from families who had lost a child to cancer USA 	<ul style="list-style-type: none"> Parents and siblings reported changes in siblings (school, personality, goals) and changes in relationships (family, peers) 21% of all participants (both parents and siblings) reported no changes in the sibling related to the death 	<p>Strengths</p> <ul style="list-style-type: none"> Research question clearly stated Qualitative approach clearly justified Study context clearly described Sampling strategy appropriate for research question Method of data collection clearly described Method of data analysis clearly described Analysis appropriate for research question <p>Limitations</p> <ul style="list-style-type: none"> Role of researcher could have been described in more depth, including potential biases 	6
Gerhardt, Fairclough, Grossenbacher, Barrera, Gilmer, Foster, Compas, Davies, Hagan, & Vannatta (2012) [16]	<ul style="list-style-type: none"> Cross-sectional Questionnaires administered to bereaved siblings, their classmates, their teachers, and matched control participants 	<ul style="list-style-type: none"> Bereaved siblings aged 8-17 (n = 105) Matched nonbereaved comparison classmates (3 per bereaved sibling, n = 311) USA 	<ul style="list-style-type: none"> Bereaved boys were perceived as more sensitive-isolated and victimized than their peers Bereaved siblings in elementary grades had lower peer acceptance, fewer best friend nominations, and were rated by peers as less prosocial and more sensitive-isolated 	<p>Strengths</p> <ul style="list-style-type: none"> Sufficient sample size Data collection appropriate to study method Appropriate analysis Evidence derived from high quality case control study Reporting comprehensive, clearly described <p>Limitations</p> <ul style="list-style-type: none"> Issues with any missing data not described Power for detecting interactions was limited Sample selection bias and potential lack of generalizability Cross-sectional study, so unable to determine causal relationships 	4
Gerish, Neimeyer, & Batley (2014) [17]	<ul style="list-style-type: none"> In-person, semi-structured interviews with bereaved mothers, who also filled out questionnaires and provided data with the biographical grid method Mixed methods 	<ul style="list-style-type: none"> Bereaved mothers who lost a child to cancer (n = 13) Australia USA 	<ul style="list-style-type: none"> All mothers exhibited both adaptive and complicated grief responses, although the proportion of adaptive to complicated grief responses varied Important features of adaptive vs. complicated grief include changes in or reinforcement of world assumptions, ongoing relationships with the deceased child and the social world, and management of loss- and restoration-oriented coping 	<p>Strengths</p> <ul style="list-style-type: none"> Research question clearly stated Qualitative approach clearly justified Study context clearly described Method of data collection clearly described Method of data analysis clearly described Analysis appropriate for research question Interpretation of quantitative data described <p>Limitations</p> <ul style="list-style-type: none"> Limited description of participating mothers Role of researcher in interviews unclear Most specific quantitative analyses and results were not included Unclear when results are from qualitative or quantitative data Small, purposeful sample 	4

(Continued)

SUPPLEMENTAL TABLE II. (Continued)

Study	Design	Sample	Findings*	Study Rigor	Level of evidence
Gilmer, Foster, Vannatta, Barrera, Davies, Dietrich, Fairclough, Grolman, & Gerhardt (2012) [18]	<ul style="list-style-type: none"> In-person, semi-structured interviews with bereaved mothers, fathers, and siblings Qualitative 	<ul style="list-style-type: none"> Bereaved mothers and fathers who lost a child to cancer at hospitals (n = 60 parents; n = 36 mothers, n = 24 fathers, and n = 39 siblings from 40 families) USA Canada 	<ul style="list-style-type: none"> Parents frequently experience a variety of changes in their personal lives, which include changes in emotions, perspectives and priorities, physical state, work habits, coping behaviors, spiritual beliefs, and feeling that something is missing 	<p>Strengths</p> <ul style="list-style-type: none"> Research question clearly stated Qualitative approach clearly justified Study context clearly described Role of the researcher clearly described Sampling strategy appropriate for research question Method of data collection clearly described Method of data analysis clearly described Analysis appropriate for research question <p>Limitations</p> <ul style="list-style-type: none"> Lack of racial and ethnic diversity in parents 	6
Gilrane-McGarry & O'Grady (2011) [19]	<ul style="list-style-type: none"> Grandparents who lost a grandchild to a range of causes were interviewed about their relationship with the child, their roles in the child's life, emotional response to the death, contact with health professionals and family dynamics 	<ul style="list-style-type: none"> Grandparents (n = 13 grandmothers, n = 4 grandfathers) of a child who died at least 6 months ago were interviewed Ireland 	<ul style="list-style-type: none"> Three main themes about grandparents' experiences included: cumulative pain, factors helping to resolve pain, factors stopping the pain from resolving Cumulative pain in this study referred to pain from prior loss, loss of grandchild, pain witnessing son/daughter's suffering, and grief 	<p>Strengths</p> <ul style="list-style-type: none"> Research question clearly stated Qualitative approach clearly justified Study context clearly described Sampling strategy appropriate for research question Method of data collection clearly described Method of data analysis clearly described Analysis appropriate for research question <p>Limitations</p> <ul style="list-style-type: none"> Sampling strategy not specific with respect to cause of death and distribution of gender unequal 	6
Gilrane-McGarry & O'Grady (2012) [20]	<ul style="list-style-type: none"> The purpose of the study was to describe the experiences of bereaved grandparents (part 2 of a two-part study) Grandparents who lost a grandchild to natural causes were interviewed about their relationship with the child, their roles in the child's life, emotional response to the death, contact with health professionals and family dynamics 	<ul style="list-style-type: none"> Grandparents (n = 13 grandmothers, n = 4 grandfathers) of a child who died at least 6 months ago were interviewed Ireland 	<ul style="list-style-type: none"> Grandparents expressed a desire to have their relationship with the deceased grandchild acknowledged, acknowledgement of the deceased child, acknowledgement of the relationship with the daughter or son, and support/care for self, and spiritual beliefs 	<p>Strengths</p> <ul style="list-style-type: none"> Research question clearly stated Qualitative approach clearly justified Study context clearly described Sampling strategy appropriate for research question Method of data collection clearly described Method of data analysis clearly described; analysis appropriate for research question <p>Limitations</p> <ul style="list-style-type: none"> Sampling strategy not specific with respect to cause of death Distribution of gender unequal 	6

(Continued)

SUPPLEMENTAL TABLE II. (Continued)

Study	Design	Sample	Findings*	Study Rigor	Level of evidence
Jalmsell, Kreicbergs, Onelov, Steineck, & Henter (2010) [21]	<ul style="list-style-type: none"> • Cross-sectional • Descriptive study • Self-report questionnaire of bereaved parents assessing symptoms affecting their child's well-being during their last month of life, and their own current psychological well-being 	<ul style="list-style-type: none"> • Bereaved parents who lost a child to cancer (n = 449; n = 191 fathers, n = 251 mothers) • Sweden 	<ul style="list-style-type: none"> • Parents whose children were anxious during their illness reported depression, anxiety, decreased psychological well-being, and decreased quality of life more frequently than parents of children without anxiety • Parents of children with disturbed sleep also had increased risk of depression, anxiety, decreased psychological well-being, and decreased quality of life • The risk of anxiety was higher in parents who were further out from their loss • The risk of depression was higher in parents closer in time to the death of their child 	<p>Strengths</p> <ul style="list-style-type: none"> • Sufficient sample size • No selective reporting • Appropriate analysis • Study completed as planned • No significant losses to follow-up or missing data <p>Limitations</p> <ul style="list-style-type: none"> • Lack of blinding 	6
Jalmsell, Onelov, Steineck, Henter, & Kreicbergs (2011) [22]	<ul style="list-style-type: none"> • Cross-sectional • Non-experimental case control study • Self-report questionnaire investigating physical and psychological well-being 	<ul style="list-style-type: none"> • Bereaved parents who lost a child to cancer (n = 97 whose child had undergone a hematopoietic stem cell transplant [HSCT]), n = 336 whose child had not undergone an HSCT) • Sweden 	<ul style="list-style-type: none"> • Bereaved parents whose children underwent HSCT had an increased risk of long-term anxiety, poor psychological well-being, low quality of life, and poor physical health • Risks of these consequences were compounded in cases of multiple HSCT 	<p>Strengths</p> <ul style="list-style-type: none"> • Sufficient sample size • Data collection appropriate to study method • Evidence derived from high quality case control study • No selective reporting • Appropriate analysis • Study completed as planned • No significant losses to follow-up or missing data <p>Limitations</p> <ul style="list-style-type: none"> • Discrepancy between data from instruments used 	4
Kim, Lucette, & Loscalzo (2013) [23]	<ul style="list-style-type: none"> • Systematic review 	<ul style="list-style-type: none"> • Bereaved family members (mixed) • Countries of studies included not specified 	<ul style="list-style-type: none"> • Greater psychological distress and poorer QOL in bereaved samples • Around 6 months post-loss is when symptoms, loss of meaning, and use of services peak • Larger comparative studies needed • Specific bereavement guidelines are lacking 	<p>Strengths</p> <ul style="list-style-type: none"> • Important, relevant studies included • Appropriately assessed for quality of studies • Reasonable to combine results in this way • Important outcomes considered <p>Limitations</p> <ul style="list-style-type: none"> • Most studies reviewed were descriptive 	5
Kreicbergs, Valdimarsdottir, Onelov, Henter, & Steineck (2004) [24]	<ul style="list-style-type: none"> • Cross-sectional • Matched control • Bereaved and non-bereaved parents completed questionnaires 	<ul style="list-style-type: none"> • Bereaved parents who lost a child to cancer (n = 449) and non-bereaved parents (n = 457) • Sweden 	<ul style="list-style-type: none"> • Increased risk of anxiety and depression among bereaved parents, compared with non-bereaved • Risk is higher 4-6 years after bereavement than 7-9 years 	<p>Strengths</p> <ul style="list-style-type: none"> • Sufficient sample size • Evidence derived from high quality case control or cohort studies • Reporting comprehensive, clearly described <p>Limitations</p> <ul style="list-style-type: none"> • Uneven attrition rates across time since loss, with fewer responses from parents who are further out from their loss • Parental age and marital status are potential confounding variables 	4

(Continued)

SUPPLEMENTAL TABLE II. (Continued)

Study	Design	Sample	Findings*	Study Rigor	Level of evidence
Kreicbergs, Valdimarsdottir, Onelov, Bjork, Steineck, & Henter (2005) [25]	<ul style="list-style-type: none"> Parents who lost a child to cancer were recruited through a population registry Parents were mailed a questionnaire that had been developed using bereaved parent input 	<ul style="list-style-type: none"> Parents of a child who died of cancer between 4 and 9 years prior to the time of the study (n = 449; n = 191 fathers, n = 251 mothers, n = 7 unreported gender) Sweden 	<ul style="list-style-type: none"> The two most significantly impactful factors on long-term distress were parents' perceptions that the child experienced unrelieved pain and a difficult moment of death 	<p>Strengths:</p> <ul style="list-style-type: none"> Sufficient sample size Appropriate analysis Data collection appropriate to study method Reporting comprehensive, clearly described <p>Limitations:</p> <ul style="list-style-type: none"> Cross-sectional Evidence not derived from high quality case control or cohort studies 	6
Lannen, Wolfe, Prigerson, Onelov, & Kreicbergs (2008) [26]	<ul style="list-style-type: none"> Cross-sectional Population-based cohort survey study 	<ul style="list-style-type: none"> Parents bereaved of children ages 25 or younger who died of cancer 4 to 9 years prior (n = 449) Sweden 	<ul style="list-style-type: none"> 26% of parents reported they had not worked through their grief 4 to 9 years post-loss Parents reporting unresolved grief had higher levels of anxiety and depression and poorer quality of life than those who worked through their grief Fathers reporting unresolved grief reported more sleep difficulties and deteriorating physical and mental health in the past five years than those who worked through their grief Mothers reporting unresolved grief reported more doctors visits and taking sick leave 	<p>Strengths:</p> <ul style="list-style-type: none"> Sufficient sample size Data collection appropriate to study method Appropriate analysis Reporting comprehensive, clearly described <p>Limitations:</p> <ul style="list-style-type: none"> Self-reported health Single item assessment of unresolved grief Did not account for correlated data between mothers and fathers of the same child Homogeneous population No matched control/comparison group 	4
Lichtenthal, Currier, Neimeyer, & Keesee (2010) [27]	<ul style="list-style-type: none"> Mixed methods Cross-sectional Written responses to open-ended questions Self-report questionnaires 	<ul style="list-style-type: none"> Bereaved parents (n = 156) who lost a child to a variety of causes including miscarriage, stillbirth, natural expected (i.e., cancer), natural sudden, accident, suicide, homicide USA 	<ul style="list-style-type: none"> The parents who could not make sense of their loss or identify benefits related to their loss experience had more maladaptive grief symptoms 45% of parents could not make sense of their loss 21% of parents could not identify benefits related to their loss 	<p>Strengths:</p> <ul style="list-style-type: none"> Blinding or data collection appropriate to study method Appropriate analysis Evidence derived from high quality case control or cohort studies Reporting comprehensive, clearly described <p>Limitations:</p> <ul style="list-style-type: none"> Sample not diverse (primarily Caucasian and female) 	4
Lichtenthal, Wiener, Sweeney, Roberts, & Farberov (2012) [28]	<ul style="list-style-type: none"> Cross-sectional Questionnaires 	<ul style="list-style-type: none"> Bereaved mothers (n = 48) and bereaved fathers (n = 27) USA 	<ul style="list-style-type: none"> Minorities showed significantly higher levels of PGD Fewer minority parents sought mental health services There was overlap in sense-making strategies across violent vs. non-violent causes of death 	<p>Strengths:</p> <ul style="list-style-type: none"> Reporting comprehensive, clearly described <p>Limitations:</p> <ul style="list-style-type: none"> Sample not diverse 	4
Lichtenthal, Neimeyer, Currier, Roberts, & Jordan (2013) [29]	<ul style="list-style-type: none"> Cross-sectional Written responses to open-ended questions Self-report questionnaires 	<ul style="list-style-type: none"> Parents bereaved by violent and non-violent causes (n = 155) USA 	<ul style="list-style-type: none"> Appropriate analysis Evidence derived from high quality case control or cohort studies Reporting comprehensive, clearly described <p>Limitations:</p> <ul style="list-style-type: none"> Sample not diverse (primarily Caucasian mothers) Small sample size in some cause of death categories 	<p>Strengths:</p> <ul style="list-style-type: none"> Blinding or data collection appropriate to study method <p>Limitations:</p> <ul style="list-style-type: none"> Appropriate analysis Evidence derived from high quality case control or cohort studies Reporting comprehensive, clearly described 	4

(Continued)

SUPPLEMENTAL TABLE II. (Continued)

Study	Design	Sample	Findings*	Study Rigor	Level of evidence
Lichtenhal & Breitbart (2015) [30]	<ul style="list-style-type: none"> Review of literature 	<ul style="list-style-type: none"> Studies examining parents bereaved by cancer Countries of studies included not specified 	<ul style="list-style-type: none"> Parents bereaved by cancer experience meaning-related challenges Meaning-Centered Grief Therapy targets these issues 	<p>Strengths</p> <ul style="list-style-type: none"> Important, relevant studies included Important outcomes considered <p>Limitations</p> <ul style="list-style-type: none"> Did not comment on quality of studies included Did not specify search strategy Not a systematic review 	5
Ljungman, Hoven, Ljungman, Cernvall, & Essen (2014) [31]	<ul style="list-style-type: none"> Longitudinal Self-report questionnaire 	<ul style="list-style-type: none"> Parents of children with cancer from diagnosis (n = 259) up to 5 years after end of treatment or a child's death Sweden 	<ul style="list-style-type: none"> After a child's death, 19% of mothers and 8% of fathers reported levels indicative of at least partial posttraumatic stress disorder (PTSD) Bereaved parents reported a high level of PTSSTSD For bereaved mothers, the prevalence of PTSD decreased with time and post-loss was equal to the prevalence among mothers of survivors 	<p>Strengths</p> <ul style="list-style-type: none"> Data collection appropriate to study method Appropriate analysis <p>Limitations</p> <ul style="list-style-type: none"> Poster abstract - Selective reporting 	6
Lyngstad (2013) [32]	<ul style="list-style-type: none"> Marriage and bereavement data from the Norwegian administrative register Analyzed for the years 1970-2003 using a discrete time-hazard statistical model and matched control design 	<ul style="list-style-type: none"> Marriages in the Norwegian register that ended in divorce (n = 120,417) Couples who lost a child younger than 20 years old (n = 4170) Cause of death was not reported Norway 	<ul style="list-style-type: none"> Higher divorce rate observed in bereaved parents as compared to non-bereaved parents The divorce rate in bereaved parents increased over time Authors emphasized that this difference in divorce rate is likely due to a number of confounding relationship and circumstantial factors 	<p>Strengths</p> <ul style="list-style-type: none"> Sufficient sample size Appropriate analysis <p>Limitations</p> <ul style="list-style-type: none"> Reporting not comprehensive as cause of death and other potential influences on the findings were not recorded and the data was limited by what was contained in the population registry 	4
McCarthy, Clarke, Ting, Conroy, Anderson, & Heath (2010) [33]	<ul style="list-style-type: none"> Cross-sectional Descriptive Standardized self-report questionnaire measuring prolonged grief disorder and depression Structured interviews designed to elicit perceptions of their child's end-of-life care and burden of illness 	<ul style="list-style-type: none"> Bereaved parents who lost a child to cancer (n = 58) Australia 	<ul style="list-style-type: none"> 10% of parents fulfilled criteria for a diagnosis of prolonged grief disorder 41% of parents met diagnostic criteria for grief-related separation distress 22% of parents reported clinically significant depressive symptoms Time since death and parental perception of the oncologist's care predicted parental grief symptoms but not depressive symptoms Perceptions of the child's quality of life during the last month, preparedness for the child's death, and economic hardship also predicted grief and depression outcomes 	<p>Strengths</p> <ul style="list-style-type: none"> Data collection appropriate to study method Appropriate analysis Reporting comprehensive, clearly described <p>Limitations</p> <ul style="list-style-type: none"> Retrospective study which relies on parents' ability to accurately recall the circumstances surrounding their child's death Small sample size limited the generalizability of the findings 	6

(Continued)

SUPPLEMENTAL TABLE II. (Continued)

Study	Design	Sample	Findings*	Study Rigor	Level of evidence
McClowry, Davies, May, Kulenkamp, & Martinson (1995) [34]	<ul style="list-style-type: none"> Longitudinal study following families from 1 month post-loss onward Grounded theory was utilized to analyze sections of qualitative interviews with the parents that focused on experiences of an "empty space" or ongoing sense of loss following the child's death 	<ul style="list-style-type: none"> 150 interviews with family members were analyzed (n = 46 mothers, n = 33 fathers, and n = 71 siblings) USA 	<ul style="list-style-type: none"> The authors suggest families fall into three possible grieving patterns: "getting over it," "filling the emptiness," and "keeping the connection" Families who did not "get over it" or "fill the emptiness" continued to experience "empty space" for 7-9 years 	<p>Strengths</p> <ul style="list-style-type: none"> Study context clearly described Sampling strategy appropriate for research question Method of data collection clearly described Qualitative approach clearly justified <p>Limitations</p> <ul style="list-style-type: none"> Research question was somewhat unclear and complicated Unclear why grounded theory was selected as the analysis method versus theoretical thematic analysis Role of the researchers was not clearly described 	6
Middleton, Raphael, Burnett, & Martinek (1998) [35]	<ul style="list-style-type: none"> Longitudinal design Questionnaire administered at 4 time points over 13 months following the child's death 	<ul style="list-style-type: none"> Bereaved spouses (n = 44), bereaved adult children (n = 40), and bereaved parents (n = 36) who lost family members to cancer, accidents, heart disease, or other illnesses Australia 	<ul style="list-style-type: none"> Intensity of grief for parents who lost a child was higher than for widow/ers, who had more intense grief than adult children losing a parent 	<p>Strengths</p> <ul style="list-style-type: none"> Sufficient sample size Data collection appropriate to study method Appropriate analysis Evidence derived from high quality case control or cohort studies Reporting comprehensive, clearly described <p>Limitations</p> <ul style="list-style-type: none"> High drop-out rates (8 spouses, 9 adult children, 7 parents) 	3
O'Connor & Barrera (2014) [36]	<ul style="list-style-type: none"> Longitudinal Qualitative Prospective Semi-structured interviews exploring self identify with parents at 6, 12, and 18 months following the death of a child to cancer 	<ul style="list-style-type: none"> Parents who lost a child to cancer (n = 26; n = 16 mothers; n = 10 fathers) Canada 	<ul style="list-style-type: none"> A subset of parents experienced identity disintegration (unable to positively re-frame, limited personal growth and purpose, negative perceptions of social support, difficulty with permanence of death, inability to envision their own future, lack of fulfillment in life, difficulty parenting surviving children, self-destructive thoughts and behaviors) Patterns were stable from 6 to 12 months with a shift toward identify disintegration observed at 18 months Waning social support between the 12- and 18-month marks, as well as social expectations regarding how long it should take bereaved parents to "recover," were repeatedly discussed by parents in the mixed reintegration-disintegration group 	<p>Strengths</p> <ul style="list-style-type: none"> Research question clearly stated Qualitative approach clearly justified Study context clearly described Method of data collection clearly described Method of data analysis clearly described <p>Limitations</p> <ul style="list-style-type: none"> Challenges with maintaining sample diversity at the 18-month interviews, when fathers and minority-group parents were more likely to drop out 	6

(Continued)

SUPPLEMENTAL TABLE II. (Continued)

Study	Design	Sample	Findings*	Study Rigor	Level of evidence
Saiki-Craighill (2001) [37]	<ul style="list-style-type: none"> Interviews conducted before and after participation in a support group held for approximately 2 years Support group discussions were also used as sources of data 	<ul style="list-style-type: none"> Mothers who lost a child to cancer and who were attending a support group ran by the author (n = 24) Japan 	<ul style="list-style-type: none"> The chronological experiences of the mothers were presented as themes, including initial numbness, grieving period, post-traumatic growth, and narrative reconstruction 	<p>Strengths</p> <ul style="list-style-type: none"> Qualitative approach clearly justified Study context clearly described Sampling strategy appropriate for research question <p>Limitations</p> <ul style="list-style-type: none"> While the role of the researcher was clearly described, her potential biases could have been defined more clearly given she was the interviewer and conducted the analyses without consensus coding Analysis was appropriate for research question, but the generalizability of the findings is somewhat over-stated 	6
Saiki-Craighill (2002) [38]	<ul style="list-style-type: none"> Open-ended interviews focusing on mothers' experiences during and after their child's death 	<ul style="list-style-type: none"> Japanese mothers who lost a child to cancer (n = 57) 	<ul style="list-style-type: none"> Themes resulting from the qualitative analysis included: factors regulating the mothers' role as caregiver (e.g., lack of support), becoming tougher (e.g., maintaining emotional stability), changing perceptions of life and death (e.g., becoming connected with the deceased child), and changing values 	<p>Strengths</p> <ul style="list-style-type: none"> Research question clearly stated Qualitative approach clearly justified Study context clearly described Sampling strategy appropriate for research question Method of data collection clearly described Method of data analysis clearly described <p>Limitations</p> <ul style="list-style-type: none"> While the role of the researcher was clearly described, her potential biases could have been defined more clearly given she was the interviewer and conducted the analyses without consensus coding Analysis appropriate for research question but the study lacked quality assurance checks 	6
Schwartz, Manning, Misi, Eversole, Barrera, Compas, Fairclough, Foster, Gilmer, Vannatta, & Gerhardt (2013) [39]	<ul style="list-style-type: none"> Cross-sectional Case control study 	<ul style="list-style-type: none"> Families bereaved by cancer with a surviving child (n = 88) and matched comparison families (n = 73) USA 	<ul style="list-style-type: none"> Mothers' internalizing problems were associated with their children's internalizing problems; this pattern was not observed in fathers Findings similar between bereaved parents and controls Minimal differences between families who lost a child after terminal care and those whose child died during active anticancer therapy Mothers reported it took a longer time to come to terms with their loss than fathers and returned to work later Parents of children over the age of 12 years reported it took longer to come to terms with their loss than parents of children under age 12 	<p>Strengths</p> <ul style="list-style-type: none"> Data collection appropriate to study method Appropriate analysis Reporting clearly described <p>Limitations</p> <ul style="list-style-type: none"> Poster abstract - Selective reporting 	4
Sirkia, Saarinen-Pihkala, & Hovi (2000) [40]	<ul style="list-style-type: none"> Cross-sectional Retrospective Descriptive Structured interviews 	<ul style="list-style-type: none"> Parents of children who died of cancer while in terminal care (n = 60) and parents of children who died of cancer while on active therapy (n = 26) Finland 	<ul style="list-style-type: none"> Mothers reported it took a longer time to come to terms with their loss than fathers and returned to work later Parents of children over the age of 12 years reported it took longer to come to terms with their loss than parents of children under age 12 	<p>Strengths</p> <ul style="list-style-type: none"> Data collection appropriate to study method Appropriate analysis Reporting clearly described Issues with follow-up clearly described <p>Limitations</p> <ul style="list-style-type: none"> Insufficient sample size limited the generalizability of the findings 	6

(Continued)

SUPPLEMENTAL TABLE II. (Continued)

Study	Design	Sample	Findings*	Study Rigor	Level of evidence
Sormanti & August (1997) [41]	<ul style="list-style-type: none"> Qualitative Open-ended questionnaire 	<ul style="list-style-type: none"> Bereaved parents who lost a child to cancer (n = 43) 	<ul style="list-style-type: none"> All parents noted at least one way they remained connected to their child The majority of parents reported spiritual experiences related to their child 	<p>Research question clearly stated</p> <p>Qualitative approach clearly justified</p> <p>Study context clearly described</p> <p>Sampling strategy appropriate for research question</p> <p>Method of data collection not clearly described</p> <p>Analysis appropriate for research question</p> <p>Strengths</p> <ul style="list-style-type: none"> Research question clearly stated Qualitative approach clearly justified Study context clearly described Sampling strategy appropriate for research question Method of data collection not clearly described Analysis appropriate for research question <p>Limitations</p> <ul style="list-style-type: none"> Role of the researcher not clearly described Method of data analysis not clearly described Low response rate 	5
Surkan, Kreichbergs, Valdimarsdottir, Nyberg, Onelov, Dickman, & Steineck (2006) [42]	<ul style="list-style-type: none"> Cohort study Used mailed anonymous questionnaire 	<ul style="list-style-type: none"> Bereaved parents who lost a child to cancer (n = 449) Sweden 	<ul style="list-style-type: none"> 19% of parents reported experiencing guilt weekly or daily in the year after their child died Higher levels of guilt were found in parents who reported the staff did not take the initiative to offer supportive counseling and in those who did not access psychological support Guilt among non-depressed parents was associated with dissatisfaction with their child's care; feeling that something went wrong in handling the child's death; feeling uncertain that the child would get immediate help; feeling that the medical staff was incompetent; feeling that their child did not have access to dietary advice, pain relief, or psychological support; feeling they could not get information in a dignified way or that they did not get answers from the medical team; and not knowing that their child would die in the week before his/her death 	<p>Sufficient sample size</p> <p>High response rate</p> <p>Use of anonymous questionnaire</p> <p>Data collection appropriate to study method</p> <p>Appropriate analysis</p> <p>Evidence derived from high quality cohort study</p> <p>Reporting comprehensive, clearly described</p> <p>Limitations</p> <ul style="list-style-type: none"> Only face validity of questionnaire was evaluated, no other psychometrics assessed Use of single item to assess guilt Retrospective reporting about psychological state in year after child died No matched control or comparison group Did not account for correlated data between mothers and fathers of the same child Did not correct for conduct of multiple statistical tests 	4
Thompson, Miller, Barrera, Davies, Foster, Gilmer, Hogan, Vannatta, & Gerhardt (2011) [43]	<ul style="list-style-type: none"> In-person, semi-structured interviews with bereaved family members Qualitative 	<ul style="list-style-type: none"> Bereaved parents and siblings who lost a child to cancer (n = 99 family members, including mothers [n = 36], fathers [n = 24], and siblings [n = 39], from 40 families) USA Canada 	<ul style="list-style-type: none"> Importance of "talking about it" to others soon after the death Advice to never forget the child who died and maintain a continued bond with the child 	<p>Research question clearly stated</p> <p>Qualitative approach clearly justified</p> <p>Study context clearly described</p> <p>Role of the researcher clearly described</p> <p>Sampling strategy appropriate for research question</p> <p>Method of data collection clearly described</p> <p>Method of data analysis clearly described</p> <p>Analysis appropriate for research question</p> <p>Limitations</p> <ul style="list-style-type: none"> No information about parents who refused participation 	6

(Continued)

SUPPLEMENTAL TABLE II. (Continued)

Study	Design	Sample	Findings*	Study Rigor	Level of evidence
Vega, Rivera, & González (2014) [44]	<ul style="list-style-type: none"> Qualitative phenomenological study Open-ended interviews Analyzed using Streubert's method 	<ul style="list-style-type: none"> Parents bereaved by cancer 2 to 6 years post-loss (n = 8) Chile 	<ul style="list-style-type: none"> Finding meaning in the child's life and death and helping other bereaved parents also played an important part in adaptation 	<p>Strengths</p> <ul style="list-style-type: none"> Research question clearly stated Qualitative approach clearly justified Study context clearly described Role of the researcher clearly described Sampling strategy appropriate for research question <p>Method of data collection clearly described</p> <p>Method of data analysis clearly described</p> <p>Analysis appropriate for research question</p> <p>Limitations</p> <ul style="list-style-type: none"> Convenience sample recruited from foundation 	6
Wiener, Aikin, Gibbons, & Hirschfeld (1996) [45]	<ul style="list-style-type: none"> Cross-sectional Descriptive study Used questionnaire measuring distress (standardized tool) and questions exploring how parents grieve 	<ul style="list-style-type: none"> Parents whose child had died from HIV (n = 48) or cancer (n = 8) USA 	<ul style="list-style-type: none"> The majority of parents were comforted by evocative experiences, which helped them feel connected to their child 	<p>Strengths</p> <ul style="list-style-type: none"> Sample restricted to those not depressed <p>Strengths</p> <ul style="list-style-type: none"> Study context clearly described Sampling strategy appropriate for research question Sufficient sample size <p>Limitations</p> <ul style="list-style-type: none"> Method of data analysis unclear Role of the researcher not stated 	6
Woodgate (2006) [46]	<ul style="list-style-type: none"> Qualitative Interviews focused on parents' lives before, during, and after their child's death Phenomenological qualitative analysis 	<ul style="list-style-type: none"> Parents who lost a child (n = 17 mothers, n = 11 fathers) The cause of the child's death varied with 5 of the 18 children dying of cancer Canada 	<ul style="list-style-type: none"> Parents had experienced a sense of closure and did not want closure because of their desire to continue the bond with their child Highlighted that health professionals should be aware that parents may not see closure as a treatment goal 	<p>Strengths</p> <ul style="list-style-type: none"> Research question clearly stated Qualitative approach clearly justified Study context clearly described Sampling strategy appropriate for research question <p>Analysis appropriate for research question</p> <p>Limitations</p> <ul style="list-style-type: none"> Method of data analysis clearly described but there was a lack of consensus coding as a quality check While the role of the researcher clearly described in that the author conducted the interviews and analysis, it was not made clear what the author's biases might be; this is especially important given the lack of consensus coding 	6
Wu, Bonanno, DuHamel, Redd, Rini, Austin, Nero, Ostroff, Parsons, Martini, Williams, Mee, Sexson, & Manne (2008) [47]	<ul style="list-style-type: none"> Longitudinal Descriptive Prospective face to face or telephone administered questionnaire exploring the association of meaning making with psychological adjustment to distress among mothers of children who had undergone Hematopoietic Stem Cell Transplant (HSCT) 	<ul style="list-style-type: none"> Mothers whose child with cancer had undergone HSCT (n = 35) USA 	<ul style="list-style-type: none"> 37% of mothers whose child had an HSCT scored in the mild to moderate range of distress symptoms postloss, 17% in the moderate to severe range, and 6% in the severe range Searching for meaning from their child's illness at the time of HSCT was associated with postloss distress Finding meaning in their child's illness during the HSCT predicted less postloss distress 	<p>Strengths</p> <ul style="list-style-type: none"> Data collection appropriate to study method Appropriate analysis Reporting comprehensive, clearly described Issues with follow-up or missing data clearly described <p>Limitations</p> <ul style="list-style-type: none"> Small sample size Large number of participants refused to participate in the study 	6

(Continued)

SUPPLEMENTAL TABLE II. (Continued)

Study	Design	Sample	Findings*	Study Rigor	Level of evidence
Bereavement Outreach Efforts and Formal Interventions					
Adams, Green, Towe, & Huett (2013) [48]	<ul style="list-style-type: none"> Qualitative Used in-depth interviews Content analysis 	<ul style="list-style-type: none"> Bereaved parents who participated as educators in a pediatric palliative care education program (n = 9) Health care professionals (n = 11) USA 	<ul style="list-style-type: none"> For families, a sense of purpose emerged from participation, giving additional meaning to their child's lives, helping to assure that their child will not be forgotten, helping other families and staff understand families better and giving back to the hospital for the care they received Recommendation to choose parents who can balance being a parent and educator, share without being overwhelmed, and can consider other perspectives 	<p>Strengths</p> <ul style="list-style-type: none"> Qualitative approach justified Methods (data collection, role of researcher, training, analysis) well described Study completed as planned <p>Limitations</p> <ul style="list-style-type: none"> Having parents present may have limited health care professionals, openness and frankness 	6
Aho, Astedt-Kurki, Tarkka, & Kaunonen (2010) [49]	<ul style="list-style-type: none"> Phases of "action research" include baseline study on fathers grief and social support, survey of existing bereavement support system in Finnish university hospitals, a systematic literature review, and collaboration with experts 	<ul style="list-style-type: none"> University hospitals (n = 25) Systematic literature review (20 studies met inclusion criteria) Finland 	<ul style="list-style-type: none"> Addressed the steps needed in developing a bereavement program Combination data suggests that a follow-up bereavement program should focus on the whole family A wide variation in the bereavement follow-up provided to bereaved parents was found Fathers experienced a lack of support after leaving the hospital Support provided mainly about memorial services Recommendations provided on how to implement a bereavement support intervention within nursing practice 	<p>Strengths</p> <ul style="list-style-type: none"> Important, relevant studies included Appropriately assessed quality of studies Reasonable to combine results in this way Important outcomes that led to the developed intervention considered <p>Limitations</p> <ul style="list-style-type: none"> In the study of current bereavement programs, limited information provided to assess rigor Research with experts: Limited information provided to assess rigor 	6
Aho, Tarkka, Astedt-Kurki, Sorvari, & Kaunonen (2011) [50]	<ul style="list-style-type: none"> Comparison of self-report data from bereaved fathers receiving a bereavement intervention with a control group of bereaved fathers who did not receive the intervention Intervention included support, peer contact, and health care personnel contact Quantitative 	<ul style="list-style-type: none"> Bereaved fathers who lost a child at a hospital (n = 103 fathers, 62 of whom received the intervention and 41 of whom were selected as controls) Finland 	<ul style="list-style-type: none"> Fathers receiving the intervention felt that they received more support from health care personnel and peer supporters Fathers generally reported that this support was helpful Fathers in the intervention group reported more personal growth around their grief, although there were few other differences in grief 	<p>Strengths</p> <ul style="list-style-type: none"> Sufficient sample size Blinding or data collection appropriate to study method Appropriate analysis <p>Limitations</p> <ul style="list-style-type: none"> Limited to descriptive analysis No information provided about recruitment No specific information about services received in the control group Control group and intervention group were from different hospitals, and there were differences between these two groups at baseline 	4

(Continued)

SUPPLEMENTAL TABLE II. (Continued)

Study	Design	Sample	Findings*	Study Rigor	Level of evidence
Baker, Windham, Hinds, Gattuso, Mandrell, Gajjar, West, Hammarback, & Broniszer (2013) [51]	<ul style="list-style-type: none"> • Cross-sectional • Prospective multicenter mixed methods study • Decisional regret survey • Structured telephone interview • Explored parents' perceptions about participating in autopsy-related research 	<ul style="list-style-type: none"> • Bereaved parents who lost a child to cancer (n = 33) • USA 	<ul style="list-style-type: none"> • 30.3% of parents had been in contact with bereavement resources • 15.2% reported were not in contact with bereavement resources and express a need for bereavement follow-up, suggesting a total of 45.5% had a wish for bereavement support 	<p>Strengths</p> <ul style="list-style-type: none"> • Research question clearly stated • Qualitative approach clearly justified • Study context clearly described • Sampling strategy appropriate for research question • Method of data collection clearly described • Method of data analysis clearly described • Analysis appropriate for research question <p>Limitations</p> <ul style="list-style-type: none"> • Generalizability of findings limited due to study inclusion criteria 	6
Eggle, Meert, Berger, Zimmerman, Anand, Newth, Harrison, Carcillo, Dean, Willson, & Nicholson (2011) [52]	<ul style="list-style-type: none"> • In-depth interviews with parents whose child died in the pediatric intensive care unit (PICU) about their desire to meet their child's physician post-loss, location, and who they would like to be present • Interviews were also conducted with PICU physicians • A thematic analysis was conducted to develop the framework for follow-up • Qualitative interviews with physicians who conducted follow-up meetings with bereaved parents about use of the word, "closure" 	<ul style="list-style-type: none"> • Qualitative interviews conducted with parents whose child died in the PICU (n = 56) and PICU physicians (n = 70) • USA 	<ul style="list-style-type: none"> • A follow-up framework was developed that included invitations, meeting preparation (family preferences, attendees, discussion topics, inviting hospital staff, reviewing patient history), and conducting the meeting • Follow-up instructions for after the meeting were provided for parents and physicians • Closure was described as being facilitated by gaining an understanding of the causes of death, reconnecting in relationships • Physicians' feedback indicated follow-up meetings can be important for closure in bereaved parents 	<p>Strengths</p> <ul style="list-style-type: none"> • The framework was developed based on interviews with two stakeholder groups • Analysis appropriate for research question <p>Limitations</p> <ul style="list-style-type: none"> • Thematic analysis was briefly described as analysis method but details about coders etc. were not provided 	6
Eggle, Meert, Berger, Zimmerman, Anand, Newth, Harrison, Carcillo, Dean, Willson, & Nicholson (2013) [53]	<ul style="list-style-type: none"> • Qualitative interviews with parents who interviewed about their impressions of a bereavement follow-up meeting with physicians • Linguistic Inquiry and Word Count (LIWC) was used to analyze the results looking at positive and negative emotion words 	<ul style="list-style-type: none"> • Pediatric intensive care unit (PICU) physicians (n = 23) and parents (n = 53) whose child died in the PICU participated • Parents were Spanish and English speaking • 74% of children died from chronic conditions • USA 	<ul style="list-style-type: none"> • Parents used more positive emotion words than negative as the meeting progressed, which the authors suggested showed that the meetings were helpful to parents 	<p>Strengths</p> <ul style="list-style-type: none"> • Qualitative approach clearly justified • Study context clearly described • Sampling strategy appropriate for research question • Method of data analysis clearly described • analysis appropriate for research question <p>Limitations</p> <ul style="list-style-type: none"> • While the role of the researcher was described, potential biases could have been defined more clearly 	6
Eggle, Manning, Slatcher, Berg, Wessel, Newth, Shanley, Harrison, Dalton, Dean, Doctor, Jenkins, & Meert (2015) [54]	<ul style="list-style-type: none"> • Qualitative interviews with parents who interviewed about their impressions of a bereavement follow-up meeting with physicians • Linguistic Inquiry and Word Count (LIWC) was used to analyze the results looking at positive and negative emotion words 	<ul style="list-style-type: none"> • Pediatric intensive care unit (PICU) physicians (n = 23) and parents (n = 53) whose child died in the PICU participated • Parents were Spanish and English speaking • 74% of children died from chronic conditions • USA 	<ul style="list-style-type: none"> • Parents used more positive emotion words than negative as the meeting progressed, which the authors suggested showed that the meetings were helpful to parents 	<p>Strengths</p> <ul style="list-style-type: none"> • Research question clearly stated • Sampling strategy appropriate for research question • Method of data analysis clearly described <p>Limitations</p> <ul style="list-style-type: none"> • Insufficient sample size • While LIWC as an analytic approach can be useful, it was not clear why this approach was used rather than a thematic analysis • Role of researcher not clearly stated 	6

(Continued)

SUPPLEMENTAL TABLE II. (Continued)

Study	Design	Sample	Findings*	Study Rigor	Level of evidence
Granek, Barrera, Scheinmann, & Bartels (2015) [55]	<ul style="list-style-type: none"> • Cross-sectional • Qualitative study • Interviews • Grounded theory method of data collection 	<ul style="list-style-type: none"> • Pediatric oncologists (n = 21) • Canada 	<ul style="list-style-type: none"> • Pediatric oncologists engaged in follow-up practices in a number of ways including: making phone calls (n = 13); sending condolence cards or emails ('always' n = 10); attending funerals ('some of the time' n = 13); visitations (n = 5); short-term/long-term meetings with parents (n = 14); and participation in hospital memorials (n = 5) • Primary nurse or social worker made the follow-up phone call on behalf of the team if the oncologist was unable • Barriers to not engaging in follow-up practices included logistical (e.g., time constraints) and emotional 	<p>Strengths</p> <ul style="list-style-type: none"> • Research question clearly stated • Qualitative approach clearly justified • Study context clearly described • Sampling strategy appropriate for research question • Method of data collection clearly described • Method of data analysis clearly described • Analysis appropriate for research question <p>Limitations</p> <ul style="list-style-type: none"> • Method of data collection not clearly described • Small sample size, not generalizable 	6
Hechler, Blankenburg, Friedrichsdorf, Garske, Hubner, Menke, Wamsler, Wolfe, & Zernikow (2008) [56]	<ul style="list-style-type: none"> • Semi-structured interviews done in person or by phone 	<ul style="list-style-type: none"> • Parents who lost a child to cancer (n = 48) • Germany 	<ul style="list-style-type: none"> • 41 parents said the medical team contacted them after the death • The majority of parents were contacted by multiple members of the medical team • 15% of parents were not contacted by anyone 	<p>Strengths</p> <ul style="list-style-type: none"> • Sufficient sample size • Data collection appropriate to study method • Appropriate analysis • Evidence derived from high quality case control or cohort studies • Reporting comprehensive, clearly described <p>Limitations</p> <ul style="list-style-type: none"> • Low response rate • Sample lacked generalizability • Parental attitudes towards the different centers involved may have influenced their participation 	6
Heiney, Ruffin, & Goon-Johnson (1995) [57]	<ul style="list-style-type: none"> • One 7-session group of parents was studied • Participants completed pre- and post-test questionnaires measuring emotional status, family adjustment, social adjustment, utility of and satisfaction with the group • Co-therapists provided qualitative data in a group process log 	<ul style="list-style-type: none"> • Parents who lost a child to cancer (n = 5 parents) • 12 parents began the group but only 5 completed • USA 	<ul style="list-style-type: none"> • Parents described a decrease in depression and mistrustfulness post-intervention • No changes were found in family and social adjustment 	<p>Strengths</p> <ul style="list-style-type: none"> • Descriptive analyses appropriate given the small sample size • Reporting comprehensive, clearly described <p>Limitations</p> <ul style="list-style-type: none"> • Insufficient sample size • Evidence not derived from high quality case control or cohort studies 	3
Jankovic (1999) [58]	<ul style="list-style-type: none"> • Descriptive report of meetings with parents after the death of their child from leukemia 	<ul style="list-style-type: none"> • Bereaved couples were approached after the death of their child (n = 74) 	<ul style="list-style-type: none"> • Parents needed to talk to the physician who cared for their child • Physicians should routinely be available to parents shortly after a child's death 	<p>Strengths</p> <ul style="list-style-type: none"> • Descriptive analyses appropriate given the small sample size • Reporting comprehensive, clearly described <p>Limitations</p> <ul style="list-style-type: none"> • Descriptive findings • No systematic qualitative analysis 	6

(Continued)

SUPPLEMENTAL TABLE II. (Continued)

Study	Design	Sample	Findings*	Study Rigor	Level of evidence
Liisa, Marja-Terttu, Paivi, & Marja (2011) [59]	<ul style="list-style-type: none"> Open-ended questionnaire and subsequent clarifying interviews with health care professionals Qualitative 	<ul style="list-style-type: none"> Health care professionals who participated in providing a bereavement follow-up intervention (n = 29 providers) Finland 	<ul style="list-style-type: none"> Providers had positive impressions of the intervention and its viability Health professionals perceived supporting grieving families as important and rewarding Found parents were willing to receive support Resources for providers were considered important Implementation difficult because of scarce resources but made easier by co-worker support Continuous education about bereavement follow-up care is vital, and inter-organizational cooperation is important and feasible 	<p>Strengths</p> <ul style="list-style-type: none"> Research question clearly stated Qualitative approach clearly justified Study context clearly described Role of the researcher clearly described Method of data collection clearly described <p>Limitations</p> <ul style="list-style-type: none"> Method of data analysis clearly described Analysis appropriate for research question <p>Limitations</p> <ul style="list-style-type: none"> Sample composed entirely of female staff members No systematic recruitment of staff members, all participants volunteered 	6
MacDonald, Liben, Carnevale, Rennick, Wolf, Meloche, & Cohen (2005) [60]	<ul style="list-style-type: none"> Cross-sectional Qualitative study Semi-structured interviews and field observations in family homes regarding the experience of the death of their child 	<ul style="list-style-type: none"> Bereaved parents (n = 12) who lost a child in the pediatric intensive care unit (PICU) Canada 	<ul style="list-style-type: none"> Parents placed great importance on the hospital's memorial service and on staff member's presence at the service Parents found it difficult to return to the hospital after the child's death, however all attended the memorial service and found some closure in the return Parents appreciated receiving cards and valued staff members' efforts to telephone/visit and attend the funeral Parents expressed disappointment when staff members did not engage in these activities 	<p>Strengths</p> <ul style="list-style-type: none"> Adequate sample size Qualitative approach clearly justified Sampling strategy appropriate for research question Method of data collection clearly described <p>Limitations</p> <ul style="list-style-type: none"> Role of the researcher clearly described Method of data analysis clearly described Study completed as planned No selective reporting <p>Limitations</p> <ul style="list-style-type: none"> Lack of blinding 	6
Meert, Eggle, Pollack, Anand, Zimmerman, Carcillo, Newth, Dean, Willson, & Nicholson (2007) [61]	<ul style="list-style-type: none"> Cross-sectional Qualitative study Audio recorded telephone interviews with parents of children who died in the pediatric intensive care unit 	<ul style="list-style-type: none"> Bereaved parents (n = 56) who lost a child in the pediatric intensive care unit (PICU) to a variety of causes USA 	<ul style="list-style-type: none"> 63% of parents had spoken with one or more hospital workers since their child's death 25 parents (45%) had spoken with a nurse or ancillary health provider, and 12 (48%) of these had planned professional contacts for psychosocial support 13% of parents had a scheduled meeting with a physician to discuss their child's death 59% wanted to meet with their child's intensive care physician 82% were willing to return to the hospital to meet Parents wished to discuss the chronology of events leading to PICU admission and death, cause of death, treatment, autopsy, genetic risk, medical documents, withdrawal of life support, ways to help others, bereavement support, and what to tell family Parents described the meeting as a way of seeking reassurance and the opportunity to voice complaints and express gratitude 	<p>Strengths</p> <ul style="list-style-type: none"> Research question clearly stated Qualitative approach clearly justified Study context clearly described Method of data collection clearly described Method of data analysis clearly described Analysis appropriate for research question <p>Limitations</p> <ul style="list-style-type: none"> Issues with large number of parents who could not be contacted and the predominance of mothers among participants 	6

(Continued)

SUPPLEMENTAL TABLE II. (Continued)

Study	Design	Sample	Findings*	Study Rigor	Level of evidence
Meert, Schim, & Brillier (2011) [62]	<ul style="list-style-type: none"> • Cross-sectional • Qualitative • Semi-structured audio recorded telephone interviews of critical care physicians regarding follow up meetings with parents after a child's death in the pediatric intensive care unit (PICU) 	<ul style="list-style-type: none"> • Critical care physicians (n = 70) • USA 	<ul style="list-style-type: none"> • Twenty-three (33%) physicians reported never participating in a follow-up meeting with bereaved parents; 22 (31%) participated in one to five meetings, and 25 (36%) participated in more than five meetings • Of those with prior experience, 44 (94%) met with parents at the hospital and 40 (85%) met within 3 months of the death • Meeting content included discussing autopsy, parent questions, hospital course, cause of death, genetic risk, bereavement services, and legal or administrative issues; providing emotional support; and receiving parent feedback • Forty (85%) physicians perceived the meetings to be beneficial to families, and 35 (74%) to physicians • Physicians suggested that a systematic hospital process for meeting initiation and planning would allow follow-up meetings to be more easily integrated into clinical practice (e.g., having a designated social worker to contact parents, assess parents' preferences, schedule time and place) 	<p>Strengths</p> <ul style="list-style-type: none"> • Research question clearly stated • Qualitative approach clearly justified • Study context clearly described • Method of data collection clearly described • Method of data analysis clearly described • Analysis appropriate for research question <p>Limitations</p> <ul style="list-style-type: none"> • Small sample size 	6
Meert, Eggly, Berg, Wessel, Newth, Shanley, Harrison, Dalton, Clark, Dean, Doctor, & Nicholson (2014) [63]	<ul style="list-style-type: none"> • Cross-sectional • Qualitative (video recorded follow-up meetings between bereaved parents and critical care physician) • Post-meeting survey 	<ul style="list-style-type: none"> • Parents bereaved by a range of causes, including cancer (n = 54; n = 33 mothers, n = 21 fathers), parents' support persons (n = 17), critical care physicians (n = 23), and other health professionals (n = 47) • USA 	<ul style="list-style-type: none"> • 46 of parents (92%) agreed or strongly agreed the meeting was helpful for them • 33 of critical care physicians (92%) agreed or strongly agreed that the meeting was beneficial to parents and 31 (89%) indicated it was beneficial to them • Aspects of the meeting parents perceived most helpful included the opportunity to gain information, receive emotional support, and provide feedback in an honest and non-threatening style of communication • Least helpful aspects were the need for additional information that was not available or communicated clearly and the desire for different support staff at the meeting • Aspects of the meeting physicians described as most helpful included having a system for inviting parents and arranging the meeting and having a structure to guide the meeting • Least useful aspects described by physicians was the need for more structure to the meeting for inexperienced physicians • Physicians benefited by reconnecting with parents, gaining a deeper understanding of parents' perspectives and achieving a sense of closure 	<p>Strengths</p> <ul style="list-style-type: none"> • Research question clearly stated • Qualitative approach clearly justified • Study context clearly described • Role of the researcher clearly described • Sampling strategy appropriate for research question • Method of data collection clearly described • Method of data analysis clearly described • Analysis appropriate for research question <p>Limitations</p> <ul style="list-style-type: none"> • Low parent participation rate limits the generalizability of findings 	6

(Continued)

SUPPLEMENTAL TABLE II. (Continued)

Study	Design	Sample	Findings*	Study Rigor	Level of evidence
Meert, Eggly, Kavanaugh, Berg, Wessel, Newth, Shanley, Harrison, Dalton, Dean, Doctor, Jenkins, & Park (2015) [64]	<ul style="list-style-type: none"> Video recorded parent-physician bereavement meetings 	<ul style="list-style-type: none"> Parents of 35 deceased children who died from a range of causes, including cancer (n = 53) 	<ul style="list-style-type: none"> Sense-making, benefit finding, continuing bonds, and identity reconstruction were observed in bereavement meetings Parent-physician meanings facilitate meaning-making in parents 	<p>Strengths</p> <ul style="list-style-type: none"> Research question clearly stated Qualitative approach clearly justified Study context clearly described Role of the researcher clearly described Sampling strategy appropriate for research question Method of data collection clearly described <p>Method of data analysis clearly described</p> <ul style="list-style-type: none"> Analysis appropriate for research question <p>Limitations</p> <ul style="list-style-type: none"> Self-selection of participants Inability to distinguish between meaning-making efforts and meaning made 	6
Nikkola, Kaunonen, & Aho (2013) [65]	<ul style="list-style-type: none"> Self-report data from bereaved mothers receiving a bereavement intervention Intervention included support, peer contact, and health care personnel contact Quantitative 	<ul style="list-style-type: none"> Bereaved mothers who lost a child at a hospital who received a bereavement intervention (n = 86) Finland 	<ul style="list-style-type: none"> Mothers felt that the support they received was useful and helped them in coping with their loss Most mothers felt that they received helpful support from health professionals and peers with this intervention 	<p>Strengths</p> <ul style="list-style-type: none"> Data collection appropriate to study method Appropriate analysis <p>Limitations</p> <ul style="list-style-type: none"> Limited to descriptive analysis No information provided about recruitment 	4
Welch, Mannix, Boergers, Jelalian, Barbosa, Fujjii-Rios, & Forman (2012) [66]	<ul style="list-style-type: none"> Cross-sectional Qualitative Questionnaire assessing parental interest in and preferences for a pediatric oncology home visit following a child's death from cancer 	<ul style="list-style-type: none"> Bereaved parents (n = 31) who lost a child to cancer USA 	<ul style="list-style-type: none"> 84% of participants agreed that a home-based bereavement program is desirable 64% thought that they would have personally benefited from such a program 22% expressed some perceived psychological risk from the proposed program 'may feel like you're dragging out the bereavement process' 29.3% expressed some unmet need related to their family's bereavement 'you don't have the support you had while your child is sick' 	<p>Strengths</p> <ul style="list-style-type: none"> Research question clearly stated Qualitative approach clearly justified Study context clearly described Method of data collection clearly described Method of data analysis clearly described <p>Limitations</p> <ul style="list-style-type: none"> Small sample size Only 30% of eligible families participated Lack of detailed demographic data 	6
Wilkinson, Croy, King, & Barnes (2007) [67]	<ul style="list-style-type: none"> Qualitative interviews Purposive sampling 	<ul style="list-style-type: none"> A purposive sample of parents whose family had and had not used hospice bereavement services (n = 25) United Kingdom 	<ul style="list-style-type: none"> Parents whose surviving child participated in bereavement services expressed it had been generally helpful for the family, assisting bereaved children at home and school and reducing their sense of isolation Families who had refused support services had done so generally because they felt they did not need professional support 	<p>Strengths</p> <ul style="list-style-type: none"> Research question clearly stated Qualitative approach clearly justified Study context clearly described Sampling strategy appropriate for research question Method of data collection clearly described <p>Limitations</p> <ul style="list-style-type: none"> Method of analysis was not described in detail beyond identifying thematic analysis Role of the researcher was not clearly described 	6

(Continued)

SUPPLEMENTAL TABLE II. (Continued)

Study	Design	Sample	Findings*	Study Rigor	Level of evidence
Need for Bereavement Follow-up and Services					
Bellerutti, Nicholas, Barrera, Beaune, & Blumberg (2014) [68]	<ul style="list-style-type: none"> • Cross-sectional • Qualitative • Interviews • Focus groups 	<ul style="list-style-type: none"> • Fathers of children with cancer (n = 15), and fathers bereaved by cancer (n = 6) • Canada 	<ul style="list-style-type: none"> • Fathers described a need for support (clinical and community based) and potential benefits of engaging in support (e.g., giving and receiving tangible supports) • Fathers described use of technology and peer-based activities as a means of support 	<p>Strengths</p> <ul style="list-style-type: none"> • Research question clearly stated • Study context clearly described • Method of data collection clearly described <p>Limitations</p> <ul style="list-style-type: none"> • Poster abstract – not able to fully assess rigor 	6
Brooten, Youngblut, Seagrave, Caicedo, Hawthorne, Hidalgo, & Roche (2013) [69]	<ul style="list-style-type: none"> • Qualitative data were collected at 7 and 13 months post-death using semi-structured audio-recorded interviews 	<ul style="list-style-type: none"> • Bereaved parents (n = 63) who had lost a child in the neonatal intensive care unit (NICU) or pediatric intensive care unit (PICU) from 4 hospitals • USA 	<ul style="list-style-type: none"> • Compassionate, sensitive, caring staff and understandable explanations helped parents the most • Competent nursing staff, perception that providers did everything to help the child, and parents involvement in care and decisions were all found as helpful • After the child's death, staff that cried and/or prayed with the parents, went to the child's funeral, and telephoned the parents were perceived as caring, sensitive, and compassionate 	<p>Strengths</p> <ul style="list-style-type: none"> • Research question clearly stated • Qualitative approach clearly justified and described • Role of the research team, method of data collection, and data analysis clearly described <p>Limitations</p> <ul style="list-style-type: none"> • Limited information to evaluate the sampling strategy • Study limitations not addressed 	6
Butler, Hall, Willetts, & Copnell (2015) [70]	<ul style="list-style-type: none"> • Integrative review, critique, and synthesis of current research studies that examined parental perceptions of healthcare provider actions during and after the death of a child 	<ul style="list-style-type: none"> • 15 research studies • Countries of studies not specified 	<ul style="list-style-type: none"> • 10 studies made some mention of follow-up care or contact between parents and hospital staff, including actions such as phone calls or cards from staff, funeral attendance, nurse-run bereavement follow-up services that were well received • Lack of follow-up care or a card or phone call was noted as unhelpful in several studies. Lack of follow-up often left families feeling isolated or abandoned • Very few studies addressed the frequency of ongoing contact between hospital staff and parents 	<p>Strengths</p> <ul style="list-style-type: none"> • Appropriate and relevant types of papers included • Studies appropriately assessed for quality • Critical Appraisal Skills Programme (CASP) methodology for literature appraisal reasonable • Interpretation and analyses well documented • Important outcomes considered <p>Limitations</p> <ul style="list-style-type: none"> • Majority of studies reviewed were undertaken in either the United States or Canada; limited diversity noted 	1

(Continued)

SUPPLEMENTAL TABLE II. (Continued)

Study	Design	Sample	Findings*	Study Rigor	Level of evidence
Clerici, Ferrair, Massimino, Luksch, Cefalo, Terenziani, Casanova, Spreafico, Polastri, Meazza, Poddia, & Fossati-Belami (2006) [71]	<ul style="list-style-type: none"> Retrospectively identified parents who spontaneously contacted medical staff Families contacted by telephone and administered a semi-structured interview to assess bereavement process and needs Literature review 	<ul style="list-style-type: none"> Parents who lost a child to cancer (n = 17) Italy 	<ul style="list-style-type: none"> Half of the families who lost their child during the study period contacted the hospital Families mostly wanted to say hello and express thanks, some wanted to make offers and provide gifts, others wanted medical explanation, many spoke of a need to connect with people familiar with 'how they fought their child's disease for months', and to connect with other patients; no contact was made to complain Most calls well received; some expressed disappointment by the lack of the call until then Having a physician on the phone helped reduce guilty feelings of not having done enough Parents reported feeling more serene and grateful by the end of the call During the call, 'dysfunctional coping mechanisms' were identified and staff offered follow-up interventions Physicians appreciated being in touch with families, helping to support them, and would have otherwise avoided the pain Findings highlighted the strong need, primarily of the families but also of the hospital team to restore contact, to review the cancer treatment experience, provide explanation and to assess the psychological needs of parents who have lost their child to cancer 	<p>Strengths</p> <ul style="list-style-type: none"> Research question clearly stated Qualitative approach clearly justified Study context clearly described <p>Limitations</p> <ul style="list-style-type: none"> No qualitative analyses used Calls were not recorded No analytic measures to review the literature described 	6
Contro, Larson, Scofield, Sourkes, & Cohen (2002) [72]	<ul style="list-style-type: none"> In-person, structured or semi-structured interviews with bereaved parents Qualitative 	<ul style="list-style-type: none"> Bereaved family members, mostly parents, of children who died, (28 due to cancer) (n = 68 family members, including 59 parents and 44 children) USA 	<p>Strengths</p> <ul style="list-style-type: none"> Bereavement follow-up was inconsistently offered, but when it was, it was appreciated 	<p>Strengths</p> <ul style="list-style-type: none"> Research question clearly stated Qualitative approach clearly justified Study context clearly described Role of the researcher clearly described Sampling strategy appropriate for research question Method of data collection clearly described Method of data analysis clearly described <p>Limitations</p> <ul style="list-style-type: none"> Analysis appropriate for research question High rate of refusal and unreachable, no description of these families 	6

(Continued)

SUPPLEMENTAL TABLE II. (Continued)

Study	Design	Sample	Findings*	Study Rigor	Level of evidence
Conrto & Sourkes (2012) [73]	<ul style="list-style-type: none"> In-person, semi-structured interviews with staff members at a children's hospital from multiple different disciplines Qualitative 	<ul style="list-style-type: none"> Interdisciplinary staff members (n = 60) participating in bereavement care at a children's hospital USA 	<p>Findings*</p> <ul style="list-style-type: none"> Bereavement care can depend on the relationship between staff and families Logistical factors (time, space, geography) play a role in offering bereavement services Importance of culture and languages of families Importance of continuity of care in bereavement follow-up Importance of needs of siblings and other family members Importance of staff communication cooperation and care coordination Staff suffering in offering these services Need for education, mentoring, and staff support 	<p>Strengths</p> <ul style="list-style-type: none"> Research question clearly stated Qualitative approach clearly justified Study context clearly described Role of the researcher clearly described Method of data collection clearly described Method of data analysis clearly described Analysis appropriate for research question <p>Limitations</p> <ul style="list-style-type: none"> Sampling strategy may not be appropriate for research question, with services nominating staff members for interviews Interviews potentially conducted by colleagues 	6
Copnel (2005) [74]	<ul style="list-style-type: none"> Literature review of research findings on neonatal intensive care unit (NICU) deaths and suggests future directions for research to improve care 	<ul style="list-style-type: none"> 62 articles addressing modes of death; decision-making; managing the dying process; nurses, clinicians, and parent perceptions; and bereavement follow up 	<p>Findings*</p> <ul style="list-style-type: none"> Highlighted major gaps in research, most reports (2005) were descriptive Support for bereaved parents seen as increasingly the responsibility of the hospital staff, reviewing nurse-managed bereavement programs Programs had similar components – written information at the time of death, cards, letters, telephone calls for 1-2 years after the child's death, remembrance services, referral to other services as required; several programs included a bereavement counselor Bereavement care at time of death was reviewed by nursing staff as beneficial to families and helped their own grief and increased their confidence in caring for parents, which, in turn, increased the parents' confidence in them Nurses less comfortable with reaching out to parents after death and the need for more education on bereavement Limited data on parent perceptions of bereavement outreach The papers reviewed were generally positive with families wanting more contact with their child's physician One study showed beneficial effect on the grieving process 	<p>Strengths</p> <ul style="list-style-type: none"> Appropriate types of papers included Important, relevant studies included Well written, described study limitations Appropriate recommendations provided <p>Limitations</p> <ul style="list-style-type: none"> Methodology not described 	5

(Continued)

SUPPLEMENTAL TABLE II. (Continued)

Study	Design	Sample	Findings*	Study Rigor	Level of evidence
D'Agostino, Berlin-Romalis, Jovcevska, & Barrera (2008) [75]	<ul style="list-style-type: none"> In-person, structured, or semi-structured focus group with bereaved parents Qualitative 	<ul style="list-style-type: none"> Bereaved parents of children who lost a child to cancer at a hospital (n = 7 parents of 6 children) Canada 	<ul style="list-style-type: none"> Importance of flexible and continuous bereavement services from the hospital Helpful to talk to other parents with similar experiences Helpful to maintain contact with staff 	<p>Study Rigor</p> <p>Strengths</p> <ul style="list-style-type: none"> Research question clearly stated Qualitative approach clearly justified Study context clearly described Role of the researcher clearly described Method of data collection clearly described Method of data analysis clearly described Analysis appropriate for research question <p>Limitations</p> <ul style="list-style-type: none"> Small, convenience sample of parents participating in a single focus group 	6
Darbyshire, Cleghorn, Downes, Elford, Gannoni, McCullagh, & Shute (2013) [76]	<ul style="list-style-type: none"> In-person, unstructured, or semi-structured interviews with bereaved parents about a bereavement support program Qualitative Additional, preliminary study involved interviews with bereaved parents prior to the bereavement program, although these were not described in detail 	<ul style="list-style-type: none"> Bereaved parents who lost a child to cancer and who participated in a support program offered in the first year of bereavement (n = 6 parents from 5 families) Additional participants in a preliminary study included bereaved parents from the same hospital prior to the implementation of the bereavement program (n = 7 pairs of parents, not described in detail) Australia 	<ul style="list-style-type: none"> Program offered in the first year of bereavement described as supportive Appreciated ongoing contact with nurses who knew them Telephone contact preferred because of painful memories associated with returning to the hospital Calls are important in creating meaning and memory around the child Preliminary study found that prior to this program, support was offered erratically and that more contact would have been appreciated 	<p>Study Rigor</p> <p>Strengths</p> <ul style="list-style-type: none"> Research question clearly stated Study context clearly described Role of the researcher clearly described Method of data collection clearly described Method of data analysis clearly described Analysis appropriate for research question <p>Limitations</p> <ul style="list-style-type: none"> Small sample with limited description of parents or children Very few participating fathers Lack of quantitative data evaluating this program Method not clearly described for preliminary study 	6
Davies (2005) [77]	<ul style="list-style-type: none"> In-person, unstructured or semi-structured interviews with bereaved mothers Qualitative 	<ul style="list-style-type: none"> Bereaved mothers who lost a child to a life-limiting condition in the last three years (n = 10 parents, 5 of whom had access to a children's hospice, 5 of whom did not) United Kingdom 	<ul style="list-style-type: none"> Mothers' need for time, space, and privacy with their dying child and their child's body after death Mothers' memories of these events have an impact during bereavement 	<p>Study Rigor</p> <p>Strengths</p> <ul style="list-style-type: none"> Research question clearly stated Qualitative approach clearly justified Study context clearly described Role of the researcher clearly described Sampling strategy appropriate for research question Method of data collection clearly described Method of data analysis clearly described Analysis appropriate for research question <p>Limitations</p> <ul style="list-style-type: none"> Small sample size, especially when divided up into mothers who had access to hospice care and mothers who did not 	6

(Continued)

SUPPLEMENTAL TABLE II. (Continued)

Study	Design	Sample	Findings*	Study Rigor	Level of evidence
deCinque, Monterosso, Dadd, Sidhu, MacPherson, & Aoun (2006) [78]	<ul style="list-style-type: none"> In-person, unstructured interviews with bereaved parents Qualitative 	<ul style="list-style-type: none"> Bereaved parents who lost a child to cancer (n = 9 parents of 6 children) Australia 	<ul style="list-style-type: none"> Parents experience intense grief, even far out from the loss Need for supportive contact from hospital staff following the child's death Need for contact with other bereaved parents Need for formal grief support for siblings 	<p>Strengths</p> <ul style="list-style-type: none"> Research question clearly stated Qualitative approach clearly justified Study context clearly described Role of the researcher clearly described Sampling strategy appropriate for research question Method of data collection clearly described Method of data analysis clearly described Analysis appropriate for research question <p>Limitations</p> <ul style="list-style-type: none"> High refusal rate among contacted parents 	6
Dent, Condon, Blair, & Fleming (1996) [79]	<ul style="list-style-type: none"> 2-year qualitative, retrospective study carried out in 11 health districts Postal questionnaires developed by the study team 	<ul style="list-style-type: none"> Bereaved parents who lost children to accident or illness (n = 42) returned questionnaires (58% response rate) United Kingdom 	<ul style="list-style-type: none"> More than half the parents were not offered follow-up care at the hospital to talk of the death with a pediatrician Of those that were, 88% thought the meeting was helpful Only 13% of families received formal support from their general practitioners and 12% from health visitors Those who had been helped by their general practitioner and/or health visitor commented how helpful this had been Only 36% made contact with a local support group A further 18% said they would have liked to 55% reported they had experienced a serious strain in their relationship with their partner Two-thirds of parents turned to other bereaved parents Three-quarters of families spoke of difficulties with their surviving children Only 27% of these families received advice from health professionals about the needs of grieving siblings and only two of the children were receiving professional support Two-thirds of the parents thought the health professionals could have been more helpful in dealing with bereaved siblings Many parents advocated the need for professionals to conduct home visits and to make regular contact 	<p>Strengths</p> <ul style="list-style-type: none"> Research question clearly stated Qualitative approach justified Sampling strategy appropriate for the research question Challenges well described <p>Limitations</p> <ul style="list-style-type: none"> Data analyses appear purely descriptive, not well described Number of families that could be included was small in comparison to those that were identified 	6

(Continued)

SUPPLEMENTAL TABLE II. (Continued)

Study	Design	Sample	Findings*	Study Rigor	Level of evidence
Donovan, Wakefield, Russell, & Cohn (2015) [80]	<ul style="list-style-type: none"> Systematic review of descriptive and qualitative studies of hospital based bereavement services following the death of a child 	<ul style="list-style-type: none"> Qualitative (n = 14); quantitative (n = 6); mixed method (n = 10) studies International review 	<ul style="list-style-type: none"> Qualitatively, parents, grandparents, and siblings who accessed hospital based bereavement care reported feeling cared for and supported by staff, a reduction in sense of isolation, and improved coping and personal growth Quantitatively, little or no change in grief, adjustment, or coping generally was found for parents, grandparents, and siblings who accessed hospital based bereavement care Bereavement services had most effect for those with more complex mourning Bereaved family members and health care professionals recommended bereavement services be theoretically driven and evidence based, offer continuity of care prior to and follow the death of a child, and provide a range of interventions for the whole family and flexibility in service delivery 	<p>Strengths</p> <ul style="list-style-type: none"> Important, relevant studies included Appropriately assessed for quality of studies Reasonable to combine results in this way Important outcomes considered <p>Limitations</p> <ul style="list-style-type: none"> Dearth of rigorous quantitative and qualitative studies and difficult to draw conclusions that are truly representative and based on sound methodology Lack of demographic diversity 	5
Flahault, Seigneur, Laurence, Paqueument, & Montel (2015) [81]	<ul style="list-style-type: none"> In-person, semi-structured interviews Qualitative 	<ul style="list-style-type: none"> Bereaved parents of adolescents/young adults with cancer (n = 21) France 	<ul style="list-style-type: none"> Prominent themes included the importance of psychological care during the terminal phase of the child's illness and after child's death, the need to be listened to and understood by the medical team, and the need for information from the medical team Found discrepancy between emphasis on the importance of psychological support and the proportion of parents who actually consulted a mental health provider or participated in bereavement groups 	<p>Strengths</p> <ul style="list-style-type: none"> Research question clearly stated Qualitative approach clearly justified Study context clearly described Role of the researcher clearly described Sampling strategy appropriate for research question Method of data collection clearly described Method of data analysis clearly described Analysis appropriate for research question <p>Limitations</p> <ul style="list-style-type: none"> Lack of diversity in sample (almost all Caucasian) Inter-rater reliability for coding not reported 	6
Foster, Thompson, Miller, Barrera, Davies, Fairclough, Gilmer, Vannata, & Gerhardt (2010) [82]	<ul style="list-style-type: none"> This was a qualitative study exploring bereaved parents' and siblings' advice to other families after losing a child to cancer Semi-structured interviews were conducted with the parents and siblings at their homes 	<ul style="list-style-type: none"> Parents (n = 36 mothers and n = 24 fathers) and siblings (n = 39) were interviewed 3-12 months post-loss USA 	<ul style="list-style-type: none"> Advice included noting the individual nature of grief, addressing different time periods of the illness experience, seeking social support, continuing bonds, and seeking religion Advice for the future included seeking acceptance and living for the moment 	<p>Strengths</p> <ul style="list-style-type: none"> Research question clearly stated Qualitative approach clearly justified Sampling strategy appropriate for research question <p>Limitations</p> <ul style="list-style-type: none"> Method of data analysis not clearly described Role of researcher not clearly described 	6

(Continued)

SUPPLEMENTAL TABLE II. (Continued)

Study	Design	Sample	Findings*	Study Rigor	Level of evidence
Fujii, Watanabe, & Okada (2003) [83]	<ul style="list-style-type: none"> Retrospective medical record review Semi-structured interview 	<ul style="list-style-type: none"> Medical records of children who died from cancer (n = 28) and sets of bereaved parents (n = 8 sets) Japan 	<ul style="list-style-type: none"> Some parents wanted to maintain a relationship with medical staff following their child's death 2 sets of parents were pleased with visits by medical staff after child's death 	<p>Strengths</p> <ul style="list-style-type: none"> Qualitative approach clearly justified Method of data collection clearly described <p>Limitations</p> <ul style="list-style-type: none"> Coding strategy/ analysis not described 	6
Goldstein & Rimer (2013) [84]	<ul style="list-style-type: none"> Mostly in-person, semi-structured interviews with bereaved parents Qualitative 	<ul style="list-style-type: none"> Bereaved parents who lost a child to a medical illness in the year 2005 (n = 16) 	<ul style="list-style-type: none"> Some primary care providers attend funerals, extend sympathy, or prescribe medication to parents Few primary care providers ask about sibling coping, which is disappointing to parents Few primary care providers checked in throughout bereavement 	<p>Strengths</p> <ul style="list-style-type: none"> Qualitative approach clearly justified Study context clearly described Method of data collection clearly described <p>Limitations</p> <ul style="list-style-type: none"> Method of data analysis clearly described Analysis appropriate for research question <p>Limitations</p> <ul style="list-style-type: none"> Limited description of participating parents Details of recruitment unclear Role of researcher in interviews unclear 	6
Kreibergs, Lannen, Onelov, & Wolfe (2007) [85]	<ul style="list-style-type: none"> The purpose of this study was to examine pediatric end-of-life interventions' impact on parental grief and possible influence of social support on grief 4-9 years post-loss Parents who lost a child to cancer were recruited through a population registry Parents were mailed a questionnaire that had been developed using bereaved parent input and asked about the child's medical care and parents' mental health Parents were specifically asked if they felt they had "worked through their grief" 	<ul style="list-style-type: none"> Parents of a child who died of cancer between 4 and 9 years prior to the time of the study (n = 449) Fathers (n = 191), mothers (n = 251), 7 unreported gender Sweden 	<ul style="list-style-type: none"> Analyses demonstrated social support was beneficial for parents who expressed a desire to communicate about their grief Parents who had access to professional support were also more likely to report having worked through their grief Social support outside of professional settings was also beneficial 	<p>Strengths</p> <ul style="list-style-type: none"> Sufficient sample size Appropriate analysis Data collection appropriate to study method Reporting comprehensive, clearly described <p>Limitations</p> <ul style="list-style-type: none"> Cross-sectional The questionnaire item on "working through grief" may have been interpreted in different ways by participants Evidence not derived from high quality case control or cohort studies 	6
Laakso & Paunonen-Ilmonen (2001) [86]	<ul style="list-style-type: none"> Mailed surveys and in-person, semi-structured interviews with bereaved mothers who lost a child, typically to an illness; only qualitative results were discussed 	<ul style="list-style-type: none"> Bereaved mothers who lost a child under the age of 7 years in a hospital (n = 91) mothers for the survey, 50 for the interview; about three-quarters of mothers lost a child to illness) Finland 	<ul style="list-style-type: none"> Feelings of grief had physical, psychological, and social manifestations and were highly individualized Mothers expected contact from health care personnel even after the child's death 	<p>Strengths</p> <ul style="list-style-type: none"> Research question clearly stated Qualitative approach clearly justified Study context clearly described Method of data collection clearly described <p>Limitations</p> <ul style="list-style-type: none"> Method of data analysis clearly described Analysis appropriate for research question <p>Limitations</p> <ul style="list-style-type: none"> Limited description of participating parents No use of quantitative data despite the survey Role of researcher in interviews unclear 	6

(Continued)

SUPPLEMENTAL TABLE II. (Continued)

Study	Design	Sample	Findings*	Study Rigor	Level of evidence
Laaakso & Paunonen-Ilmonen (2002) [87]	<ul style="list-style-type: none"> Mailed surveys and in-person, semi-structured interviews with bereaved mothers who lost a child, typically to an illness Mixed methods 	<ul style="list-style-type: none"> Bereaved mothers who lost a child under the age of seven in a Finnish hospital district (n = 91 mothers for the survey, 50 for the interview, and about three-quarters of mothers lost a child to illness) Finland 	<ul style="list-style-type: none"> Spouses, children, grandparents, next of kin, friends, and colleagues are the main sources of support for bereaved mothers Support groups with other parents can be helpful or anxiety-inducing Public health nurses' contact after the death was considered to be a positive gesture and included sending flowers or postcards or making a phone call or visit Mothers wanted communication, advice on practical matters, information on crisis groups, and a genuine interest in their grief from professional practitioners 	<p>Strengths</p> <ul style="list-style-type: none"> Research question clearly stated Qualitative approach clearly justified Study context clearly described Method of data collection clearly described Method of data analysis clearly described Analysis appropriate for research question Sufficient sample size Appropriate quantitative analysis mentioned (although not reported) Issues with non-response clearly described <p>Limitations</p> <ul style="list-style-type: none"> Limited description of participating parents Role of researcher in interviews unclear Most specific quantitative analyses and results were not included Unclear when results are from qualitative or quantitative data 	4
Lichtenhal, Nilsson, Kissane, Breitbart, Kacel, Jones, & Prigerson (2011) [88]	<ul style="list-style-type: none"> Diagnostic interviews and questionnaires 	<ul style="list-style-type: none"> Bereaved caregivers (n = 86) 	<ul style="list-style-type: none"> Majority of caregivers with prolonged grief disorder did not access mental health services 	<p>Strengths</p> <ul style="list-style-type: none"> Research question clearly stated Study context clearly described Method of data collection clearly described Method of data analysis clearly described Analysis appropriate for research question <p>Limitations</p> <ul style="list-style-type: none"> Participants who declined were more distressed than those participating- may underestimate underutilization Retrospective reporting Cross-sectional design 	3
Lichtenhal, Roberts, Bohn, & Farberov (2011) [89]	<ul style="list-style-type: none"> Cross-sectional Questionnaires 	<ul style="list-style-type: none"> Bereaved mothers (n = 19) and bereaved fathers (n = 13) 	<ul style="list-style-type: none"> Majority of parents accessed at least one service Parents with higher levels of grief are under-utilizing services 	<p>Strengths</p> <ul style="list-style-type: none"> Reporting comprehensive, clearly described Research question clearly stated <p>Limitations</p> <ul style="list-style-type: none"> Retrospective reporting Cross-sectional design 	4
Meert, Eggly, Berger, Zimmerman, Anand, Newth, Harrison, Carrillo, Dean, Willison, & Nicholson (2011) [90]	<ul style="list-style-type: none"> Systematic review of descriptive and qualitative studies to identify instruments useful for assessing the needs of parents bereaved in the pediatric intensive care unit (PICU) 	<ul style="list-style-type: none"> Articles from 357 abstracts that described 31 instruments (n = 96 articles) USA 	<ul style="list-style-type: none"> 15 instruments were selected based on their: 1) use with parents/and or the bereaved; 2) use in PICU; neonatal intensive care, or pediatric wards; 3) measurement of family needs or related constructs; and 4) published psychometrics Validity and reliability were not established for parents bereaved in the PICU No tools addressed the full range of needs for parents bereaved in the PICU 	<p>Strengths</p> <ul style="list-style-type: none"> Important, relevant studies included Appropriately assessed for quality of studies Reasonable to combine results in this way Important outcomes considered <p>Limitations</p> <ul style="list-style-type: none"> Self-selection of participants Inability to distinguish between meaningful attempts and meanings made 	5

(Continued)

SUPPLEMENTAL TABLE II. (Continued)

Study	Design	Sample	Findings*	Study Rigor	Level of evidence
Lichtenthal, Corner, Sweeney, Wiener, Roberts, Baser, Li, Kissane, Breitbart, & Prigerson (2015)[91]	<ul style="list-style-type: none"> • Cross-sectional • Multi-site • Self-report questionnaire assessing mental health service use and barriers, prolonged grief, depression, anxiety, attachment styles, and sense of meaning 	<ul style="list-style-type: none"> • Bereaved parents who lost a child to cancer (n = 120) • USA 	<ul style="list-style-type: none"> • 41% of parents between 6 months and 6 years bereaved were using mental health services • Talk therapy was the most commonly used service (included psychotropic medication and/or a support group) • 40% of parents who wanted bereavement support reported not receiving services • Barriers to service use included 'too painful to speak about the loss (64%) and 'too difficult to find help' (60%) • Nearly half of parents 1 year after loss were currently using services, with 58% using services in the second year • Minority parents expressed greater unmet needs than non-minority parents 	<p><u>Strengths</u></p> <ul style="list-style-type: none"> • Sufficient sample size • Appropriate analysis • Study completed as planned • Missing data reported clearly • Limitations clearly noted in the manuscript <p><u>Limitations</u></p> <ul style="list-style-type: none"> • Reduced power due to large number of predictors in multivariable models • Selection bias noted due to exclusion of potentially more distressed parents • Limited representation from minority groups 	6
Schwab (1995-96) [92]	<ul style="list-style-type: none"> • Parents were interviewed using a questionnaire over the phone about why they did or did not participate in a support group 	<ul style="list-style-type: none"> • Bereaved parents who participated in a support group offered by the author (n = 43) and bereaved parents who did not participate in the group (n = 42) • Over half of the parents experienced the death of their child due to illness (76%) 	<ul style="list-style-type: none"> • Parents reported a number of reasons for not joining a support group, with the most common reason being they already had sufficient social support • Reasons for joining a support group were to connect with other bereaved parents 	<p><u>Strengths</u></p> <ul style="list-style-type: none"> • Appropriate analysis • Reporting comprehensive <p><u>Limitations</u></p> <ul style="list-style-type: none"> • Sample size insufficient to conduct strong group comparisons • Evidence was derived from a highly variable sample and findings may be strengthened if parents experienced the same cause of death of their child • Parents were not randomly assigned to be in the support group or not 	3
Steele, Kaal, Thompson, Barrera, Compas, Davies, Fairclough, Foster, Gilmer, Hogan, Vannatta, & Gerhardt (2013) [93]	<ul style="list-style-type: none"> • In-person, semi-structured interviews with bereaved family members • Qualitative 	<ul style="list-style-type: none"> • Bereaved parents and siblings who lost a child to cancer (n = 99 family members, including mothers [n = 36], fathers [n = 24], and siblings [n = 39], from 40 families) • USA • Canada 	<ul style="list-style-type: none"> • Bereaved family members expressed a desire for continuity of care and to remain connected with hospital staff after the death of their child or sibling 	<p><u>Strengths</u></p> <ul style="list-style-type: none"> • Research question clearly stated • Qualitative approach clearly justified • Study context clearly described • Role of the researcher clearly described • Sampling strategy appropriate for research question • Method of data collection clearly described • Method of data analysis clearly described • Analysis appropriate for research question <p><u>Limitations</u></p> <ul style="list-style-type: none"> • No information about parents who refused participation 	6

(Continued)

SUPPLEMENTAL TABLE II. (Continued)

Study	Design	Sample	Findings*	Study Rigor	Level of evidence
van der Geest, Darlington, Strengh, Michiels, Pieters, & van den Heuvel-Eibrink (2014) [94]	<ul style="list-style-type: none"> Questionnaire about grief experiences and perceptions of interactions with health care professionals administered to bereaved parents Quantitative 	<ul style="list-style-type: none"> Bereaved parents who lost a child to cancer (n = 89 parents from 57 families) Netherlands 	<ul style="list-style-type: none"> Parents highly rated the frequency of consultations with health care professionals after their child's death Higher levels of continuity of care and communication with hospital staff were associated lower levels of long-term grief, although this includes care and communication prior to the death 	<p>Strengths</p> <ul style="list-style-type: none"> Sufficient sample size Data collection appropriate to study method Evidence derived from high quality case control or cohort studies Reporting comprehensive, clearly described <p>Limitations</p> <ul style="list-style-type: none"> Analyses do not appear to account for participating couples No information about parents who refused participation and a high refusal rate Cross-sectional study that includes retrospective reporting of continuity of care and communication with hospital staff 	4

***Note.** Only findings relevant to the bereavement follow-up standard are presented. **Levels of evidence:** 1 = Systematic review or meta-analysis of controlled studies, or evidence-based clinical practice guidelines; 2 = Individual experimental studies (RCT); 3 = Quasi-experimental studies (no randomized); 4 = Non-experimental studies (Case-control, cohort); 5 = Systematic reviews of descriptive or qualitative study; 6 = Individual descriptive or qualitative study; 7 = Opinions of respected authorities and expert committees.

REFERENCES-SUPPLEMENTARY TABLE II

1. Alam R, Barrera M, D'Agostino N, Nicholas DB, Schneiderman G. Bereavement experiences of mothers and fathers over time after the death of a child due to cancer. *Death studies* 2012;36(1):1-22.
2. Barrera M, D'Agostino NM, Schneiderman G, Tallett S, Spencer L, Jovcevska V. Patterns of parental bereavement following the loss of a child and related factors. *Omega: Journal of Death and Dying* 2007;55(2):145-167.
3. Barrera M, O'Connor K, D'Agostino NM, Spencer L, Nicholas D, Jovcevska V, Tallett S, Schneiderman G. Early parental adjustment and bereavement after childhood cancer death. *Death studies* 2009;33(6):497-520.
4. Barrera ME, Alam R, D'Agostino N, Nicholas D, Schneiderman G. Parental report of developmental differences in siblings' grieving and coping experiences after childhood cancer death. *Psycho-Oncology* 2010;19:S22-S23.
5. Birenbaum LK, Stewart BJ, Phillips DS. Health status of bereaved parents. *Nursing research* 1996;45(2):105-109.
6. Davies B. Family Responses to the Death of a Child: The Meaning of Memories. *Journal of Palliative Care* 1987;3(1):9-15.
7. Davies B, Deveau E, deVeber B, Howell D, Martinson I, Papadatou D, Pask E, Stevens M. Experiences of mothers in five countries whose child died of cancer. *Cancer nursing* 1998;21(5):301-311.
8. Domingue P. An examination of attachment styles, distress, and oscillation among parents who have lost a child to cancer. Description and findings of the study. *Psycho-Oncology* 2010;19:S157.
9. Drew D, Goodenough B, Maurice L, Foreman T, Willis L. Parental grieving after a child dies from cancer: is stress from stem cell transplant a factor? *International journal of palliative nursing* 2005;11(6):266-273.
10. Dussel V, Bona K, Heath JA, Hilden JM, Weeks JC, Wolfe J. Unmeasured costs of a child's death: perceived financial burden, work disruptions, and economic coping strategies used by American and Australian families who lost children to cancer. *Journal of clinical oncology: official journal of the American Society of Clinical Oncology* 2011;29(8):1007-1013.
11. Eilegård A, Kreicbergs U. Risk of parental dissolution of partnership following the loss of a child to cancer: A population-based long-term follow-up: Commentary. *Archives of Pediatrics and Adolescent Medicine* 2010;164(1):100-101.
12. Eilertsen ME, Eilegård A, Steineck G, Nyberg T, Kreicbergs U. Impact of social support on bereaved siblings' anxiety: a nationwide follow-up. *Journal of pediatric oncology nursing: official journal of the Association of Pediatric Oncology Nurses* 2013;30(6):301-310.
13. Foster TL, Gilmer MJ, Davies B, Barrera M, Fairclough D, Vannatta K, Gerhardt CA. Bereaved parents' and siblings' reports of legacies created by children with cancer. *Journal of pediatric oncology nursing: official journal of the Association of Pediatric Oncology Nurses* 2009;26(6):369-376.
14. Foster TL, Gilmer MJ, Davies B, Dietrich MS, Barrera M, Fairclough DL, Vannatta K, Gerhardt CA. Comparison of continuing bonds reported by parents and siblings after a child's death from cancer. *Death studies* 2011;35(5):420-440.
15. Foster TL, Gilmer MJ, Vannatta K, Barrera M, Davies B, Dietrich MS, Fairclough DL, Gerhardt CA. Changes in siblings after the death of a child from cancer. *Cancer nursing* 2012;35(5):347-354.
16. Gerhardt CA, Fairclough DL, Grossenbacher JC, Barrera M, Gilmer MJ, Foster TL, Compas BE, Davies B, Hogan NS, Vannatta K. Peer relationships of bereaved siblings and comparison classmates after a child's death from cancer. *J Pediatr Psychol* 2012;37(2):209-219.
17. Gerrish NJ, Neimeyer RA, Bailey S. Exploring maternal grief: A mixed-methods investigation of mothers' responses to the death of a child from cancer. *Journal of Constructivist Psychology* 2014;27(3):151-173.
18. Gilmer MJ, Foster TL, Vannatta K, Barrera M, Davies B, Dietrich MS, Fairclough DL, Grollman J, Gerhardt CA. Changes in parents after the death of a child from cancer. *Journal of pain and symptom management* 2012;44(4):572-582.
19. Gilrane-McGarry U, O'Grady T. Forgotten grievers: An exploration of the grief experiences of bereaved grandparents. *International Journal of Palliative Nursing* 2011;17(4):170-176.
20. Gilrane-McGarry U, O'Grady T. Forgotten grievers: An exploration of the grief experiences of bereaved grandparents (part 2). *International Journal of Palliative Nursing* 2012;18(4):179-187.
21. Jalmell L, Kreicbergs U, Onelov E, Steineck G, Henter JI. Anxiety is contagious-symptoms of anxiety in the terminally ill child affect long-term psychological well-being in bereaved parents. *Pediatric blood & cancer* 2010;54(5):751-757.
22. Jalmell L, Onelov E, Steineck G, Henter JI, Kreicbergs U. Hematopoietic stem cell transplantation in children with cancer and the risk of long-term psychological morbidity in the bereaved parents. *Bone marrow transplantation* 2011;46(8):1063-1070.
23. Kim Y, Lucette A, Loscalzo M. Bereavement needs of adults, children, and families after cancer. *Cancer J* 2013;19(5):444-457.
24. Kreicbergs U, Valdimarsdottir U, Onelov E, Henter JI, Steineck G. Anxiety and depression in parents 4-9 years after the loss of a child owing to a malignancy: A population-based follow-up. *Psychological Medicine* 2004;34(8):1431-1441.
25. Kreicbergs U, Valdimarsdottir U, Onelov E, Bjork O, Steineck G, Henter JI. Care-related distress: a nationwide study of parents who lost their child to cancer. *Journal of clinical oncology: official journal of the American Society of Clinical Oncology* 2005;23(36):9162-9171.
26. Lannen PK, Wolfe J, Prigerson HG, Onelov E, Kreicbergs UC. Unresolved grief in a national sample of bereaved parents: impaired mental and physical health 4 to 9 years later. *Journal of clinical oncology: official journal of the American Society of Clinical Oncology* 2008;26(36):5870-5876.
27. Lichtenthal WG, Currier JM, Neimeyer RA, Keesee NJ. Sense and significance: a mixed methods examination of meaning making after the loss of one's child. *Journal of clinical psychology* 2010;66(7):791-812.
28. Lichtenthal W, Wiener L, Sweeney C, Roberts K, Farberov M. Disparities in prolonged grief, mental health service use, and barriers to use in racial/ethnic minority parents bereaved by cancer. *Psycho-Oncology* 2012;21:40.
29. Lichtenthal WG, Neimeyer RA, Currier JM, Roberts K, Jordan N. Cause of death and the quest for meaning after the loss of a child. *Death studies* 2013;37(4):311-342.
30. Lichtenthal WG, Breitbart W. The central role of meaning in adjustment to the loss of a child to cancer: implications for the development of meaning-centered grief therapy. *Current opinion in supportive and palliative care* 2015;9(1):46-51.
31. Ljungman L, Hoven E, Ljungman G, Cernvall M, Essen L. Does time heal all wounds? A longitudinal study of development of posttraumatic stress symptoms in parents of children with cancer. *Psycho-Oncology* 2014;23:323.
32. Lyngstad TH. Bereavement and divorce: Does the death of a child affect parents' marital stability? *Fam Sci* 2013;4(1):79-86.
33. McCarthy MC, Clarke NE, Ting CL, Conroy R, Anderson VA, Heath JA. Prevalence and predictors of parental grief and depression after the death of a child from cancer. *Journal of palliative medicine* 2010;13(11):1321-1326.
34. McClowry SG, Davies EB, May KA, Kulenkamp EJ, Martinson IM. The empty space phenomenon: The process of grief in the bereaved family. *Children mourning, mourning children*. Washington, DC: Hospice Foundation of America; US; 1995. p 149-162.
35. Middleton W, Raphael B, Burnett P, Martinek N. A longitudinal study comparing bereavement phenomena in recently bereaved spouses, adult children and parents. *Aust New Zealand J Psychiatry* 1998;32(2):235-241.
36. O'Connor K, Barrera M. Changes in parental self-identity following the death of a child to cancer. *Death studies* 2014;38(6-10):404-411.
37. Saiki-Craighill S. The grieving process of Japanese mothers who have lost a child to cancer, part I: adjusting to life after losing a child. *Journal of pediatric oncology nursing: official journal of the Association of Pediatric Oncology Nurses* 2001;18(6):260-267.
38. Saiki-Craighill S. The personal development of mothers of terminal cancer patients: how Japanese women change through the experience of caring for and losing their children to cancer. *Qualitative health research* 2002;12(6):769-779.
39. Schwartz L, Manning S, Misiti B, Eversole M, Barrera M, Compas B, Fairclough D, Foster T, Gilmer MJ, Vannatta K, Gerhardt C. The role of dyadic interactions in parent and sibling distress after a child's death from cancer. *Psycho-Oncology* 2013;22:82.
40. Sirka K, Saarinen-Pihkala UM, Hovi L. Coping of parents and siblings with the death of a child with cancer: Death after terminal care compared with death during active anticancer therapy. *Acta Paediatrica, International Journal of Paediatrics* 2000;89(6):717-721.
41. Sormanti M, August J. Parental bereavement: spiritual connections with deceased children. *The American journal of orthopsychiatry* 1997;67(3):460-469.
42. Surkan PJ, Kreicbergs U, Valdimarsdottir U, Nyberg U, Onelov E, Dickman PW, Steineck G. Perceptions of inadequate health care and feelings of guilt in parents after the death of a child to a malignancy: a population-based long-term follow-up. *Journal of palliative medicine* 2006;9(2):317-331.
43. Thompson AL, Miller KS, Barrera M, Davies B, Foster TL, Gilmer MJ, Hogan N, Vannatta K, Gerhardt CA. A qualitative study of advice from bereaved parents and siblings. *Journal of social work in end-of-life & palliative care* 2011;7(2-3):153-172.
44. Vega P, Rivera MS, Gonzalez R. When grief turns into love: understanding the experience of parents who have revived after losing a child due to cancer. *Journal of pediatric oncology nursing: official journal of the Association of Pediatric Oncology Nurses* 2014;31(3):166-176.
45. Wiener L, Aikin A, Gibbons MB, Hirschfeld S. Visions of those who left too soon. *The American journal of nursing* 1996;96(9):57-61.
46. Woodgate RL. Living in a world without closure: Reality for parents who have experienced the death of a child. *Journal of Palliative Care* 2006;22(2):75-82.
47. Wu L, Bonanno G, Duhamel K, Redd WH, Rini C, Austin J, Nereo N, Ostroff J, Parsons S, Martini R, Williams S, Mee L, Sexson S, Manne S. Pre-bereavement meaning and post-bereavement distress in mothers of children who underwent haematopoietic stem cell transplantation. *British journal of health psychology* 2008;13(Pt 3):419-433.
48. Adams G, Green A, Towe S, Huett A. Bereaved caregivers as educators in pediatric palliative care: Their experiences and impact. *Journal of Palliative Medicine* 2013;16(6):609-615.
49. Aho AL, Astedt-Kurki P, Tarkka M, Kaunonen M. Development and implementation of a bereavement follow-up intervention for grieving fathers: An action research. *Journal of Clinical Nursing* 2011;20(3-4):408-419.
50. Aho AL, Tarkka MT, Astedt-Kurki P, Sorvari L, Kaunonen M. Evaluating a bereavement follow-up intervention for grieving fathers and their experiences of support after the death of a child-a pilot study. *Death Studies* 2011;35(10):879-904.
51. Baker JN, Windham JA, Hinds PS, Gattuso JS, Mandrell B, Gajjar P, West NK, Hammarback T, Broniscer A. Bereaved parents' intentions and suggestions about research autopsies in children with lethal brain tumors. *The Journal of pediatrics* 2013;163(2):581-586.
52. Eggle S, Meert KL, Berger J, Zimmerman J, Anand KJ, Newth CJ, Harrison R, Carcillo J, Dean JM, Willson DF, Nicholson C. A framework for conducting follow-up meetings with parents after a child's death in the pediatric intensive care unit. *Pediatric critical care medicine: a journal of the Society of Critical Care Medicine and the World Federation of Pediatric Intensive and Critical Care Societies* 2011;12(2):147-152.
53. Eggle S, Meert KL, Berger J, Zimmerman J, Anand KJS, Newth CJL, Harrison R, Carcillo J, Michael Dean J, Willson DF, Nicholson C. Physicians' conceptualization of "closure" as a benefit of physician-parent follow-up meetings after a child's death in the pediatric intensive care unit. *Journal of Palliative Care* 2013;29(2):69-75.
54. Eggle S, Manning MA, Slatcher RB, Berg RA, Wessel DL, Newth CJL, Shanley TP, Harrison R, Dalton H, Dean JM, Doctor A, Jenkins T, Meert KL. Language Analysis as a Window to Bereaved Parents' Emotions During a Parent-Physician Bereavement Meeting. *J Lang Soc Psychol* 2015;34(2):181-199.
55. Granek L, Barrera M, Scheinmann K, Bartels U. When a child dies: pediatric oncologists' follow-up practices with families after the death of their child. *Psycho-oncology* 2015.
56. Hechler T, Blankenburg M, Friedrichsdorf SJ, Garske D, Hubner B, Menke A, Wamsler C, Wolfe J, Zemikow B. Parents' perspective on symptoms, quality of life, characteristics of death and end-of-life decisions for children dying from cancer. *Klinische Padiatrie* 2008;220(3):166-174.
57. Heiney SP, Ruffin J, Goon-Johnson K. The effects of a support group on selected psychosocial outcomes of bereaved parents whose child died from cancer. *Journal of pediatric oncology nursing: official journal of the Association of Pediatric Oncology Nurses* 1995;12(2):51-58; discussion 59-61.
58. Janković M, Rizzari C, Colombini A, Reciputo A, Milani M, Gavazzi L, Biagi E, Masera G. How to practically assist a child dying of leukemia: A "winning approach"! *Paediatrica Croatica, Supplement* 1999;43(1):25-28.
59. Liisa AA, Marja-Terttu T, Päivi AK, Marja K. Health care personnel's experiences of a bereavement follow-up intervention for grieving parents. *Scandinavian Journal of Caring Sciences* 2011;25(2):373-382.
60. Macdonald ME, Liben S, Carnevale FA, Rennick JE, Wolf SL, Meloche D, Cohen SR. Parental perspectives on hospital staff members' acts of kindness and commemoration after a child's death. *Pediatrics* 2005;116(4):884-890.
61. Meert KL, Eggle S, Pollack M, Anand KJS, Zimmerman J, Carcillo J, Newth CJL, Dean JM, Willson DF, Nicholson C. Parents' Perspectives Regarding a Physician-Parent Conference after Their Child's Death in the Pediatric Intensive Care Unit. *Journal of Pediatrics* 2007;151(1):50-55.e52.
62. Meert KL, Schim SM, Briller SH. Parental bereavement needs in the pediatric intensive care unit: Review of available measures. *Journal of Palliative Medicine* 2011;14(8):951-964.
63. Meert KL, Eggle S, Berg RA, Wessel DL, Newth CJ, Shanley TP, Harrison R, Dalton H, Clark AE, Dean JM, Doctor A, Nicholson CE. Feasibility and perceived benefits of a framework for physician-parent follow-up meetings after a child's death in the PICU. *Critical care medicine* 2014;42(1):148-157.
64. Meert KE, S.; Kavanaugh, K; Berg, RA; Wessel, DL; Newth, CJ; Shanley, TP; Harrison, R; Dalton, H; Dean, JM; Doctor, A; Jenkins, T; Park, CL. Meaning making during parent-physician bereavement meetings after a child's death. *Health Psychology* 2015;34(4):453-461.
65. Nikkila I, Kaunonen M, Aho AL. Mother's experience of the support from a bereavement follow-up intervention after the death of a child. *Journal of Clinical Nursing* 2013;22(7-8):1151-1162.
66. Welch JG, Mannix MM, Boergers J, Jelaian E, Barbosa F, Fujii-Rios H, Forman EN. Parental interest in a bereavement support visit when a child dies from cancer. *Omega* 2012;65(4):335-346.
67. Wilkinson S, Croy P, King M, Barnes J. Are we getting it right? Parents' perceptions of hospice child bereavement support services. *Palliative medicine* 2007;21(5):401-407.

68. Belletrutti M, Nicholas D, Barrera M, Beaune L, Blumberg J. Understanding the experiences and support needs of fathers of children with life-limiting illnesses. *Pediatric Blood and Cancer* 2014;61: S86.
69. Brooten D, Youngblut JM, Seagrave L, Caicedo C, Hawthorne D, Hidalgo I, Roche R. Parent's Perceptions of Health Care Providers Actions Around Child ICU Death: What Helped, What Did Not. *American Journal of Hospice & Palliative Medicine* 2013;30(1):40-49.
70. Butler A, Hall H, Willetts G, Copnell B. Parents' experiences of healthcare provider actions when their child dies: An integrative review of the literature. *Journal for Specialists in Pediatric Nursing* 2015; 20(1):5-20.
71. Clerici CA, Ferrari A, Massimo M, Luksch R, Cefalo G, Terenziani M, Casanova M, Spreafico F, Polastri D, Meazza C, Podda M, Fossati-Bellani F. Assistance to parents who have lost their child with cancer. *Tumori* 2006;92(4):306-310.
72. Contro N, Larson J, Scofield S, Sourkes B, Cohen H. Family perspectives on the quality of Pediatric Palliative Care. *Archives of Pediatrics and Adolescent Medicine* 2002;156(1):14-19.
73. Contro N, Sourkes BM. Opportunities for Quality Improvement in Bereavement Care at a Children's Hospital: Assessment of interdisciplinary staff perspectives. *Journal of Palliative Care* 2012;28(1):28-35.
74. Copnell B. Death in the pediatric ICU: Caring for children and families at the end of life. *Critical Care Nursing Clinics of North America* 2005;17(4):349-360.
75. D'Agostino NM, Berlin-Romalis D, Jovcevska V, Barrera M. Bereaved parents' perspectives on their needs. *Palliative & supportive care* 2008;6(1):33-41.
76. Darbyshire P, Cleghorn A, Downes M, Elford J, Gannoni A, McCullagh C, Shute R. Supporting bereaved parents: a phenomenological study of a telephone intervention programme in a paediatric oncology unit. *Journal of clinical nursing* 2013;22(3-4):540-549.
77. Davies R. Mothers' stories of loss: Their need to be with their dying child and their child's body after death. *Journal of Child Health Care* 2005;9(4):288-300.
78. deCinque N, Monterosso L, Dadd G, Sidhu R, Macpherson R, Aoun S. Bereavement support for families following the death of a child from cancer: experience of bereaved parents. *Journal of psychosocial oncology* 2006;24(2):65-83.
79. Dent A, Condon L, Blair P, Fleming P. A study of bereavement care after a sudden and unexpected death. *Archives of Disease in Childhood* 1996;74(6):522-526.
80. Donovan LA, Wakefield CE, Russell V, Cohn RJ. Hospital-based bereavement services following the death of a child: A mixed study review. *Palliative medicine* 2015;29(3):193-210.
81. Flahault CS, E: Laurence, V; Pacquement, H; Montel, S. Parents who have lost a child to cancer: What do they really need? *Psychology* 2015;6:665-671.
82. Foster T, Thompson A, Miller K, Barrera M, Davies B, Fairclough D, Gilmer MJ, Vannatta K, Gerhardt C. A qualitative study of bereaved parents' and siblings' advice to other families... 18th International Congress on Palliative Care, October 5-8, 2010 - Palais Des Congress, Montreal, Canada. *Journal of Palliative Care* 2010;26(3):212-212.
83. Fujii Y, Watanabe C, Okada S, Inoue N, Endoh A, Yajima S, Hongo T, Ohzeki T, Suzuki E. Analysis of the circumstances at the end of life in children with cancer: a single institution's experience in Japan. *Pediatrics international: official journal of the Japan Pediatric Society* 2003;45(1):54-59.
84. Goldstein R, Rimer KP. Parents' views of their child's end-of-life care: subanalysis of primary care involvement. *Journal of palliative medicine* 2013;16(2):198-202.
85. Kreicbergs U, Lannen P, Onelov E, Wolfe J. Parental grief following the loss of a child to cancer. *Pediatric Blood & Cancer* 2007;49(4):568-569.
86. Laakso H, Paunonen-Ilmonen M. Mothers' grief following the death of a child. *Journal of Advanced Nursing* 2001;36(1):69-77.
87. Laakso H, Paunonen-Ilmonen M. Mothers' experience of social support following the death of a child. *Journal of Clinical Nursing* 2002;11(2):176-185.
88. Lichtenthal WG, Nilsson M, Kissane DW, Breitbart W, Kacel E, Jones EC, Prigerson HG. Underutilization of mental health services among bereaved caregivers with prolonged grief disorder. *Psychiatric Services* 2011;62(10):1225-1229.
89. Lichtenthal W, Roberts K, Bohn T, Farberov M. Barriers to mental health service use among parents who lost a child to cancer. *Psycho-Oncology* 2011;20(1):20.
90. Meert KL, Eggly S, Berger J, Zimmerman J, Anand KJS, Newth CJL, Harrison R, Carcillo J, Dean JM, Willson DF, Nicholson C, Eunice Kennedy Shriver Natl I. Physicians' experiences and perspectives regarding follow-up meetings with parents after a child's death in the pediatric intensive care unit. *Pediatric Critical Care Medicine* 2011;12(2):E64-E68.
91. Lichtenthal WC, GW.; Sweeney, CR.; Wiener, L.; Roberts, K.; Baser, R.; Li, Y.; Breitbart, W.; Kissane, DW.; Prigerson, H. Mental health services for parents who lost a child to cancer: If we build it, will they come? *Journal of Clinical Oncology* 2015;33(20):2246-2253.
92. Schwab R. Bereaved parents and support group participation. *Omega* 1996;32(1):49-61.
93. Steele AC, Kaal J, Thompson AL, Barrera M, Compas BE, Davies B, Fairclough DL, Foster TL, Jo Gilmer M, Hogan N, Vannatta K, Gerhardt CA. Bereaved parents and siblings offer advice to health care providers and researchers. *Journal of pediatric hematology/oncology* 2013;35(4):253-259.
94. van der Geest IM, Darlington AS, Streng IC, Michiels EM, Pieters R, van den Heuvel-Eibrink MM. Parents' experiences of pediatric palliative care and the impact on long-term parental grief. *Journal of pain and symptom management* 2014;47(6):1043-1053.