

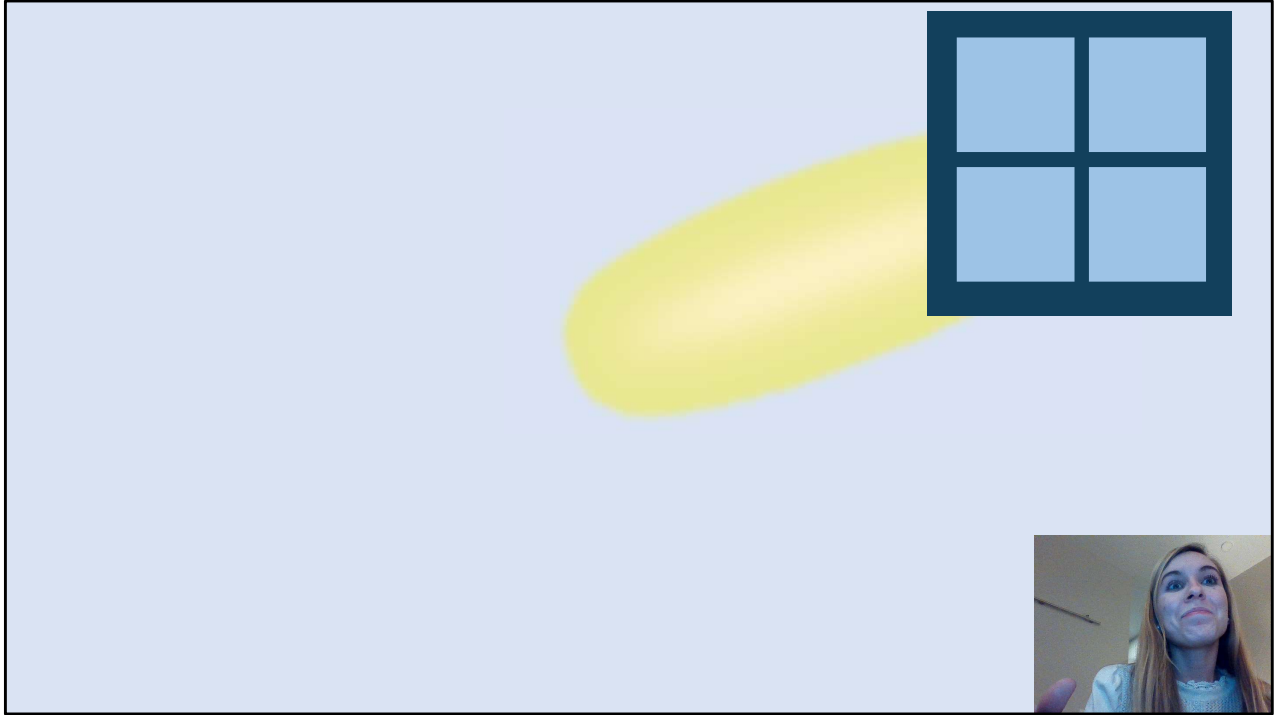
IMPROVING QUALITY OF LIFE PEDIATRIC PALLIATIVE MEDICINE

Morgan Dailey, MSPH, PA-C



1. Discuss the background of hospice and palliative medicine, including: terminology, describing its history, and explaining its structure
2. Evaluate research on quality of life outcomes for pediatric patients enrolled in a palliative care program
3. Recognize the role of a PA in pediatric hospice and palliative medicine

OBJECTIVES



HOSPICE

Patient has been deemed by health care provider to have 6 months or less to live. Cannot pursue other medical treatments.*

PALLIATIVE MEDICINE

Improving a patient's quality of life by managing pain and other distressing symptoms of a serious illness. Can be provided along with other medical treatments.

INTERDISCIPLINARY TEAM



SOCIAL WORK



NURSING



PROVIDER



CHAPLAIN



FAMILY-CENTERED

BACKGROUND DEFINITION



1960s

1967: Cicely Saunders, London

1969: *On Death and Dying*, by Elisabeth Kubler-Ross

Close chest CPR, shock, iron lung, bird ventilators

Adapted from Dr. Joe Rotella's presentation: History of Hospice and Palliative Medicine

BACKGROUND TIMELINE



1975: first hospice in USA in CT

1975: Balfour Mount, Canada "palliative care"

Karen Ann Quinlan case: persistent vegetative state

1960s

1970s

1967: Cicely Saunders, London

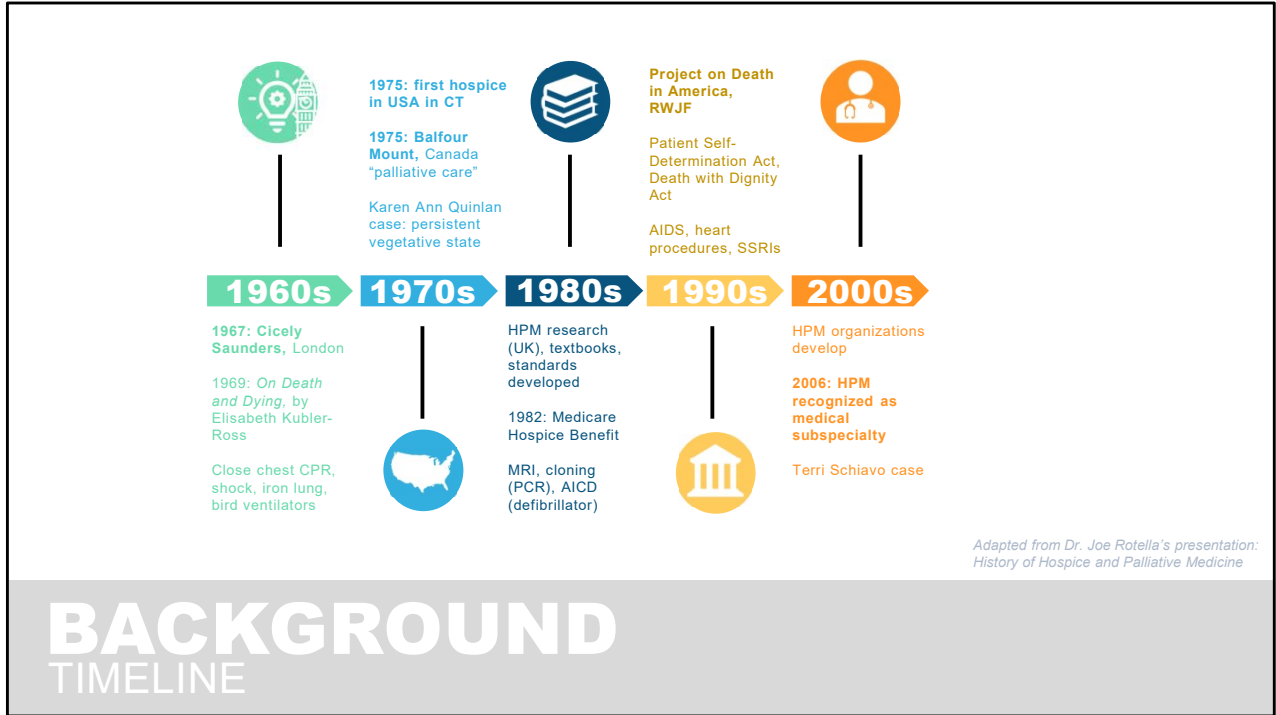
1969: *On Death and Dying*, by Elisabeth Kubler-Ross

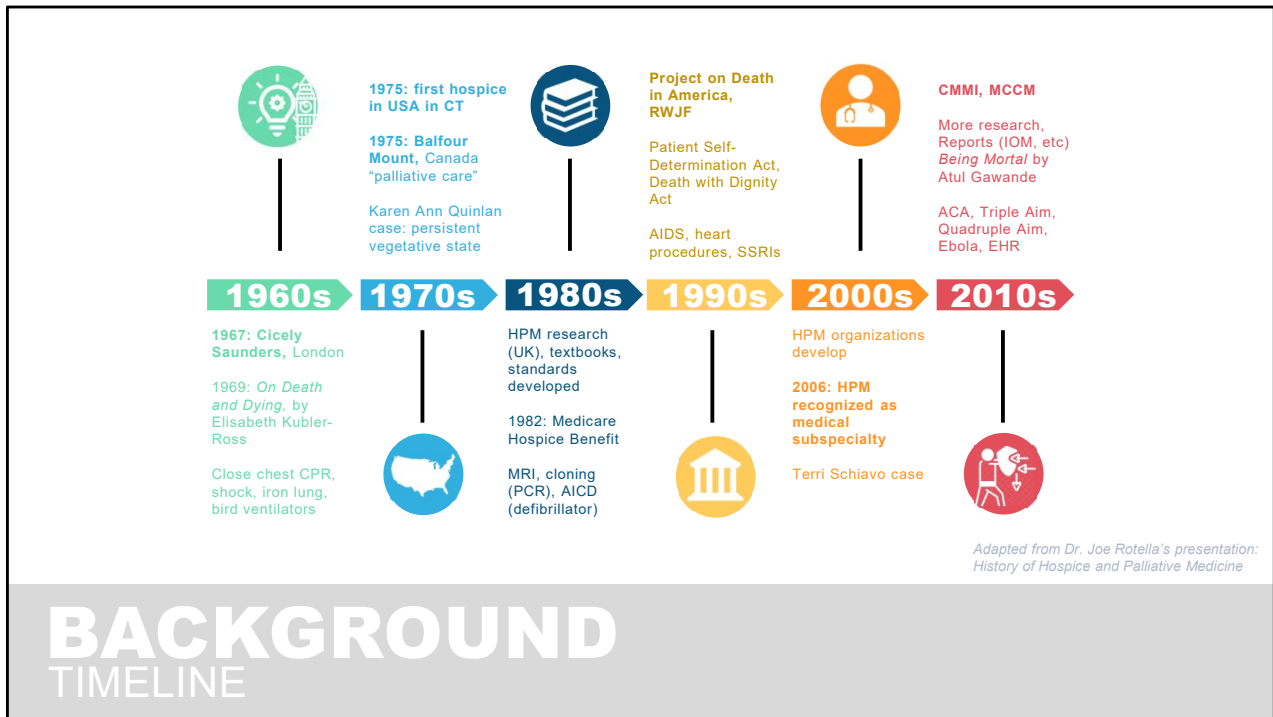
Close chest CPR, shock, iron lung, bird ventilators



Adapted from Dr. Joe Rotella's presentation: *History of Hospice and Palliative Medicine*

BACKGROUND TIMELINE





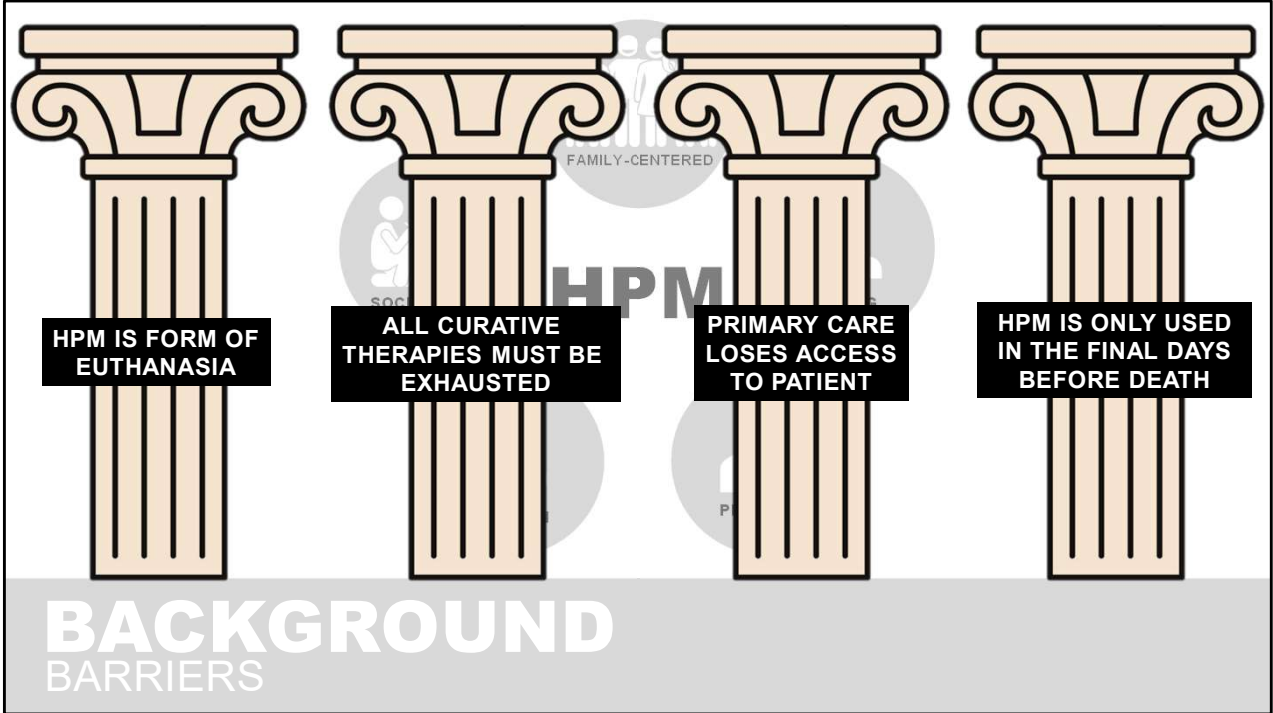


BACKGROUND BARRIERS



BACKGROUND

BARRIERS



*“HPM is an **extra layer of support** for patients and families going through difficult medical situations.”*
– Dr. Dustin Dillon, Pediatric HPM Physician

- Provide expert **pain and symptom management**
- Practice evidenced-based **prognostication**
- **Address suffering** in whole person context
- **Interdisciplinary approach**, including pastoral care
- Crucial conversations, **shared decision making**
- Ensure care is **based on patient and family wishes**

BACKGROUND

DEFINITION



BACKGROUND

DEFINITION



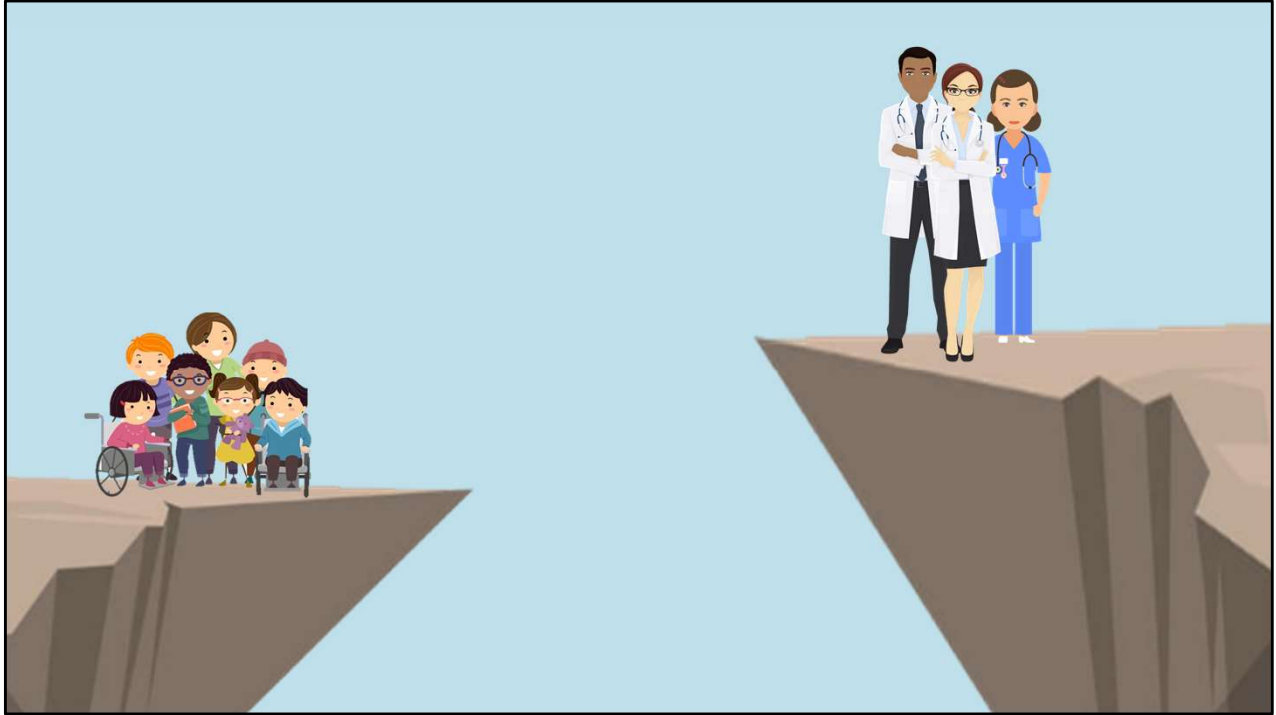
BACKGROUND

DEFINITION



lack of continuity of care
deficiencies in communication
symptom management
lack of coordination





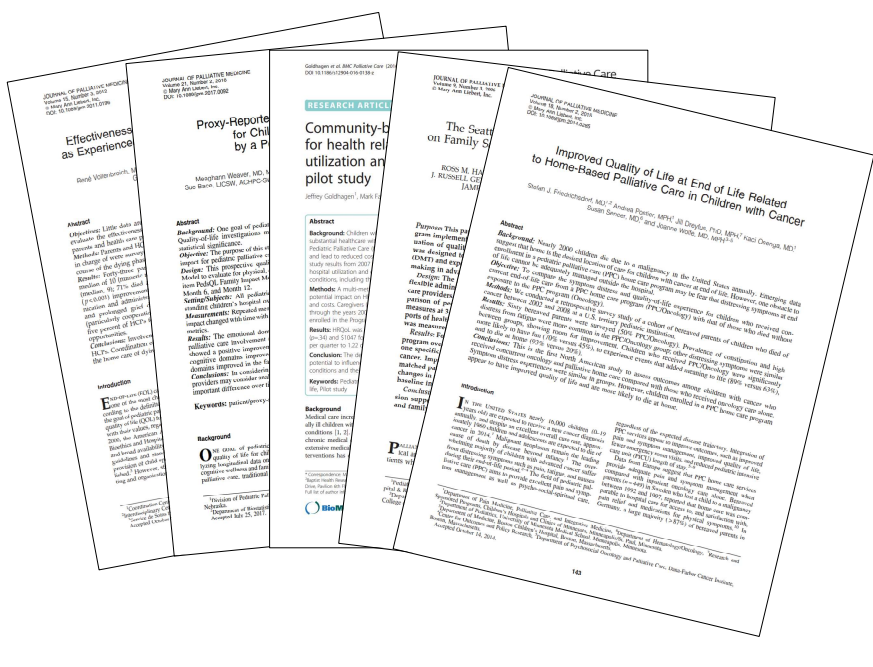
Does integration of pediatric palliative medicine improve quality of life for pediatric patients facing life-threatening and life-limiting conditions?


CLINICAL QUESTION




treatment toxicities

disease progression







Improve QoL?



Time to improve?



Emotional QoL?



Physical QoL?

Effectiveness of a Pediatric Palliative Home Care Team as Experienced by Parents and Health Care Professionals

Rene Vollebregt, M.D.,¹ Ayda Duran, M.D.,¹ Mirka Grasser, M.D.,¹ Mirka Brandstetter, M.A.,² Gian Domenico Biondo, M.D.,^{1*} and Mirka Fisher, M.D.¹

Abstract

Objective: Little data are available on palliative home care for children. The objective of this study was to evaluate the effectiveness of a specialized palliative home care team (PPHCT) as experienced by parents and health care professionals (HCPs).
Methods: Parents and HCPs involved in the care of terminally ill children who died and when the PPHCT was in charge of care surveyed with questionnaires focusing on satisfaction with the PPHCT, satisfaction with the course of the dying phase, and the development of anxiety, depression, and prolonged grief disorder.
Results: Forty-three parent dyads participated (primary care, 18%). Satisfaction with the PPHCT scored a median of 89 (interquartile range, 80–100). The child's death was predominantly experienced as very peaceful (median, 75%; died at home). According to parents, involvement of the PPHCT led to highly significant ($p < 0.001$) improvements in the children's symptoms and quality of life, as well as in aspects of communication and administrative barrier reduction. Anxiety was decreased in 25% of parents, depression in 19%, and prolonged grief disorder in 37%. HCPs' return rates (87%) evaluated all investigated core domains (particularly cooperation, communication, family support) as being significantly improved ($p < 0.001$). Thirty-five percent of HCPs still advocate covering palliative care; 79% would welcome specific training opportunities.
Conclusions: Involvement of a PPHCT is experienced as a substantial improvement of care by parents and HCPs. Coordination of palliative care during the last phase of life appears to be an important quality factor for the home care of dying children and their families.

Introduction

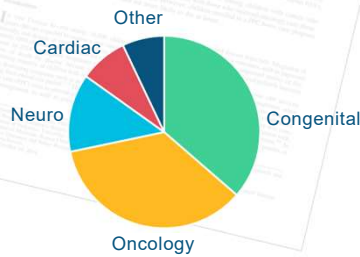
There is an increasing rate of severely ill and dying children in large parts of the world (including children in pediatric oncology), according to the definition of the World Health Organization, the global pediatric palliative care (PPC) is to ensure the best quality of life (QoL) for patients and their families, consistent with their wishes, regardless of the location of the patient.¹ In 2010, the American Academy of Pediatrics, European Society of Pediatric Oncology, and Hospital Care recommended the development and broad availability of PPC services based on child-specific guidelines and standards.² In addition, guidelines for the provision of child-specific palliative care services were published. However, still little is known about the optimal setting and organizational context in which to provide PPC.³

Major barriers according to parents and health care professionals (HCPs) to lack of continuity of care, difficulties in communication, ineffective symptom management, insufficient education, and "no particular lack of coordination."⁴ Coordination in other areas is the gateway for problems and solutions.⁵ It has been suggested that specialized pediatric palliative home care teams (PPHCT) could help in coordinating palliative care and supporting communication between the patient, institutions and professionals involved.^{6,7} The goal of this study was to evaluate whether pediatric palliative home care can be improved by involving a PPHCT. Successful implementation of a new structure in the health care system requires that both the needs of HCPs and those of patients and their families are adequately addressed. Thus, assessment of

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Home-based palliative care


Overall quality of life improved ($p < 0.0017$)



 Improve QoL?

 Time to improve?

 Emotional QoL?

 Physical QoL?

Community-based pediatric palliative care for health related quality of life, hospital utilization and costs: lessons learned from a pilot study

Jeffrey Goldbogen¹, Mark Kafar², Kelly Komarz¹, Terry Eason¹ and William C. Linggood^{3*}

Abstract
Background: Children with chronic complex medical conditions comprise a small minority of children who require substantial palliative care with major implications for hospital utilization and costs in pediatrics. Community-Based Pediatric Palliative Care (CBPPC) provides a holistic approach to patient care that can improve their quality of life and help to reduce costs of hospital care. This study's objective was to evaluate the impact of CBPPC on hospital utilization and costs in light of the necessary national focus on the care of children with complex medical conditions, including the Affordable Care Act's emphasis on patient-centered outcomes.
Methods: A multi-method research design used primary data collected from caregivers to determine the program's potential impact on HRQL, and administrative data to assess the program's potential impact on hospital utilization and costs. Categories (n) of children enrolled in the Florida-based CBPPC program (Community Palliative Care) through the years 2010-2017 were recruited for the Health Related Quality of Life (HRQL) study. Children (n=40) enrolled in the Program through years 2005-2008 were included in the utilization and cost study.
Results: HRQL was generally high, and hospital charges per child declined by \$1,203 for total hospital services (p=.34) and \$1,047 for diagnostic charges per quarter (p=0.18). Hospital length of stay decreased from 292 days per quarter to 122 days per quarter (p=0.03).
Conclusions: The decrease in hospital utilization and costs and the high HRQL results indicate that CBPPC has the potential to influence important outcomes for the quality of care available for children with complex medical conditions and their caregivers.
Keywords: Pediatric palliative care, Chronic disease, Cost effectiveness, Hospital utilization, Health related quality of life, Pilot study

Background
Medical care increasingly exceeds the lifespan of chronically ill children without curing their underlying disease or conditions [1, 2]. The high possibility that children with chronic medical conditions will endure life necessitating extensive medical care parallel prevention and hospitalization treatments has created a growing consensus that quality of life for these children and families should be a priority [3-7]. Although children with chronic complex medical conditions comprise less than 5% of the overall child population, their impact on the healthcare system is substantial [8]. In most European countries, these children's illnesses are characterized by periods of frequent and prolonged hospitalizations [9]. In the United States, these children constitute 10% of admissions to children's hospitals [10] and 25% of all hospital bed days, [11] and account for approximately 46% of total Medicaid spending on children, [12-15] of pediatric health care costs [11, 12].

Community-Based Pediatric Palliative Care
Community-Based Pediatric Palliative Care (CBPPC) is a patient-centered approach to care that focuses on the child's and family's needs, preferences, and goals. CBPPC provides a holistic approach to patient care that can improve their quality of life and help to reduce costs of hospital care. This study's objective was to evaluate the impact of CBPPC on hospital utilization and costs in light of the necessary national focus on the care of children with complex medical conditions, including the Affordable Care Act's emphasis on patient-centered outcomes.

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Home-based study (Florida)

↓ Days impaired (p=0.01)

↓ Activity limitation due to fear (p=0.01)

? Improve QoL?

⌚ Time to improve?

🧠 Emotional QoL?

💪 Physical QoL?

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The Seattle Pediatric Palliative Care Project: Effects on Family Satisfaction and Health-Related Quality of Life

ROSS M. HAYS, MD,¹ JEANETTE VALENTINE, PhD,² GERRI HAYNES, RN,² J. ROSSSELL GEYER, MD,³ FRANCIS VILLARREAL, RN,⁴ MARNY BETH MCKENNEY,¹ JAMES W. VARNI, PhD,⁵ and SHERVIN S. CHURCHILL, M.D.^{1*}

ABSTRACT

Purpose: This paper presents the components of a pediatric palliative care demonstration program implemented in Seattle during the period 1998-2001. It reports findings from the evaluation of quality of life and family satisfaction among enrolled participants. The program was designed to enhance patient-provider communication using the Decision-making Tool (DMT) and experimented with costmanagement by clinicians and insurers to support decision-making in advanced serious pediatric illness.

Design: The project design consisted of ethical decision-making, provider education, and flexible administration of health benefits through cost management between insurers and care providers. The evaluation study design is a nonexperimental pretest, posttest design comparing pediatric quality of life and family satisfaction at program entry with repeated measures at 3 months postprogram entry. Quality of life was measured with parent proxy reports of health-related quality of life using the PedsQL[®] Version 4.0, and family satisfaction was measured with a 33-item self-administered questionnaire designed by project staff.

Results: Forty-one patients ranging in age from infancy to 22 years old were enrolled in the program over a 2-year period. Parents consented to participate in the evaluation study. Thirty-one specific diagnoses were represented in the patient population; 34% were some form of cancer. Improvements in health-related quality of life over baseline were observed for 21 matched pairs available for analysis in each domain of health-related quality of life; positive changes in reports of emotional well-being were statistically significant. Improvements over baseline in 14 of 31 family satisfaction items were statistically significant.

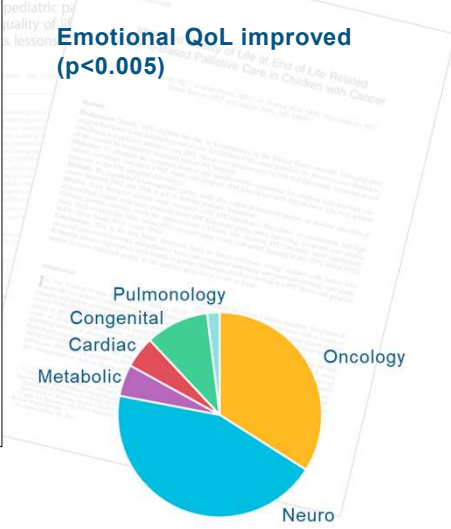
Conclusions: Pediatric palliative care services that focus on effective communication, decision support, and cost management with insurers can improve aspects of quality of life and family satisfaction.

INTRODUCTION

Pediatric care involves a complex set of clinical and psychosocial tasks in the care of patients who may be simultaneously pursuing curative therapeutic goals and comfort measures more typical of end-of-life care.¹ The Institute of Medicine's recent study, which investigated care for children who die and their families, draws an important distinction between palliative care and

Hospital-based study (Seattle, Washington)


Emotional QoL improved (p<0.005)



 **Improve QoL?**

 **Time to improve?**

 **Emotional QoL?**

 **Physical QoL?**

*Pediatric Palliative Care Consultation Program and the Center for Children with Special Needs, Children's Hospital & Regional Medical Center, Seattle, Washington; Departments of Landscape Architecture and Urban Planning, College of Architecture, Department of Pediatrics, College of Medicine, Texas A&M University, College Station, Texas.

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Improved Quality of Life at End of Life Related to Home-Based Palliative Care in Children with Cancer

Shafiq J. Fradette, MD¹, Armina Probst, MPH¹, Jil Dwyka, PhD, MPH¹, Kaci Oerga, MD¹, Susan Sencer, MD², and Joanne Kirke, MD, MPH^{3,4}

Abstract
Background: Nearly 2000 children die due to a malignancy in the United States annually. Emerging data suggest that home is the desired location of care for children with cancer at end of life. However, one obstacle to continuation in pediatric palliative care (PPC) home care programs may be fear that distressing symptoms at end of life cannot be adequately managed outside the hospital.
Objective: To compare the symptom distress and quality-of-life experience for children who received concurrent end-of-life care from a PPC home care program (PPC/Oncology) with that of those who died without exposure to the PPC program (Oncology) at a tertiary pediatric institution.
Methods: We conducted a retrospective survey study of a cohort of bereaved parents of children who died of cancer between 2002 and 2008 at a U.S. tertiary pediatric institution.
Results: Sixty bereaved parents were surveyed (50% PPC/Oncology). Prevalence of constipation and high distress from fatigue were more common in the PPC/Oncology group; other distressing symptoms were similar between groups, showing trends for improvement. Children who received PPC/Oncology were significantly more likely to have fun (70% versus 45%), to experience events that added meaning to life (69% versus 63%), and to die at home (85% versus 28%).
Conclusions: This is the first North American study to assess outcomes among children with cancer who received concurrent oncology and palliative home care compared with those who received oncology care alone. Symptom distress experiences were similar in groups. However, children enrolled in a PPC home care program appear to have improved quality of life and are more likely to die at home.

Introduction
 In the United States, nearly 10,000 children (0-19 years old) are expected to receive a new cancer diagnosis annually, and despite an excellent overall care rate, approximately 1000 children and adolescents are expected to die of cancer in 2014.¹ Malignant neoplasms remain the leading cause of death by disease beyond infancy. The area of pediatric palliative care has advanced significantly in children with advanced cancer, with attention to children with distressing symptoms such as pain, fatigue, and nausea. Home care (PPC) aims to provide excellent pain and symptom management, as well as psychosocial, spiritual, and bereavement care.² Data from Europe suggest that PPC home care services provide adequate pain and symptom management when compared with inpatient oncology care alone. Bereaved parents in the United States have also expressed a preference for home care at end of life.³ The study by Probst and colleagues⁴ in 1992 and 1995 reported that home care was comparable to hospital care for services, and satisfaction with pain relief and medication for physical symptoms.⁴ In contrast, a large majority (73%) of bereaved parents

Home-based study (Minnesota)

Increased fun (p=0.03)


Increased participation in meaningful event (p=0.02)

No significant difference in symptom burden, pain management.

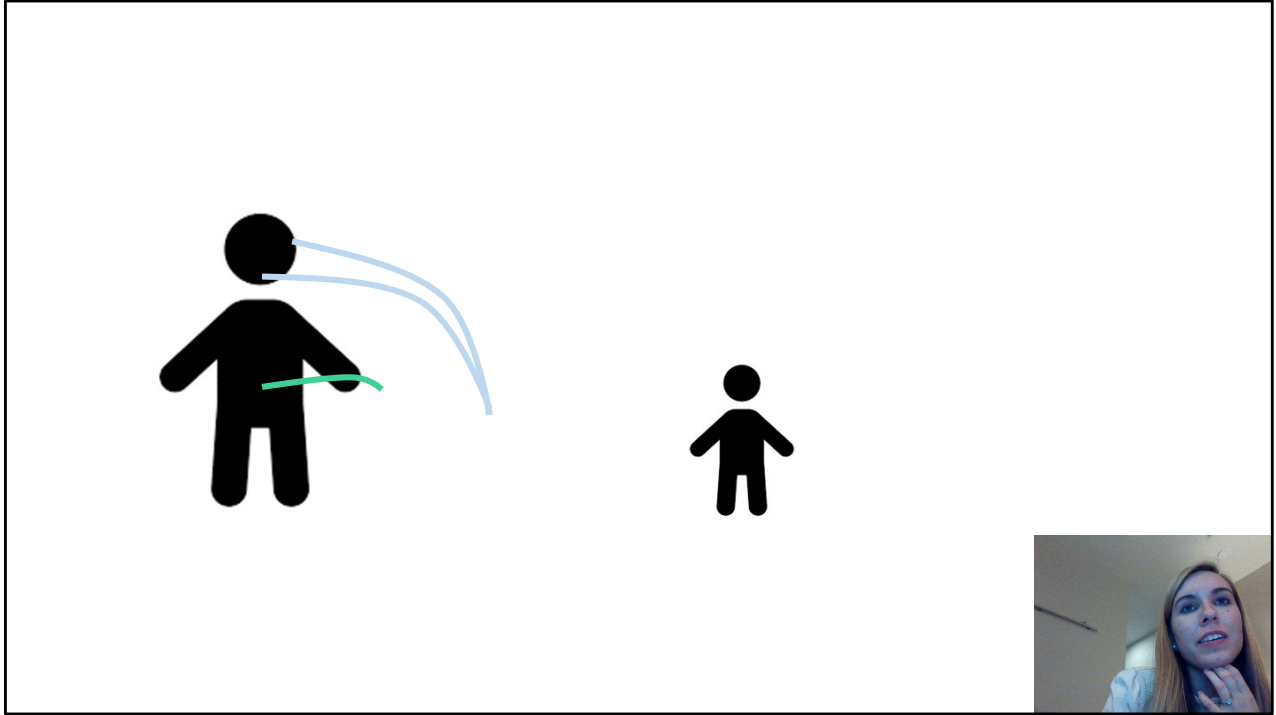
Higher degree of fatigue *not prevalence (p=0.007)

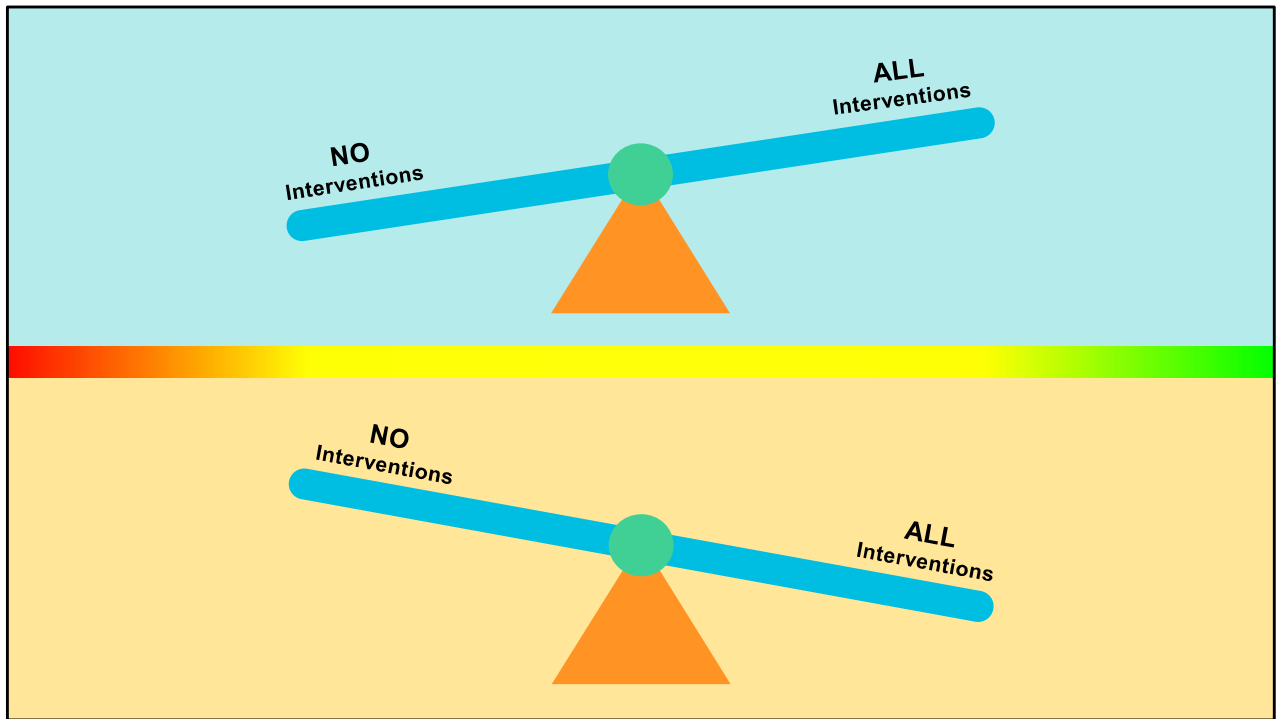
 **Improve QoL?**

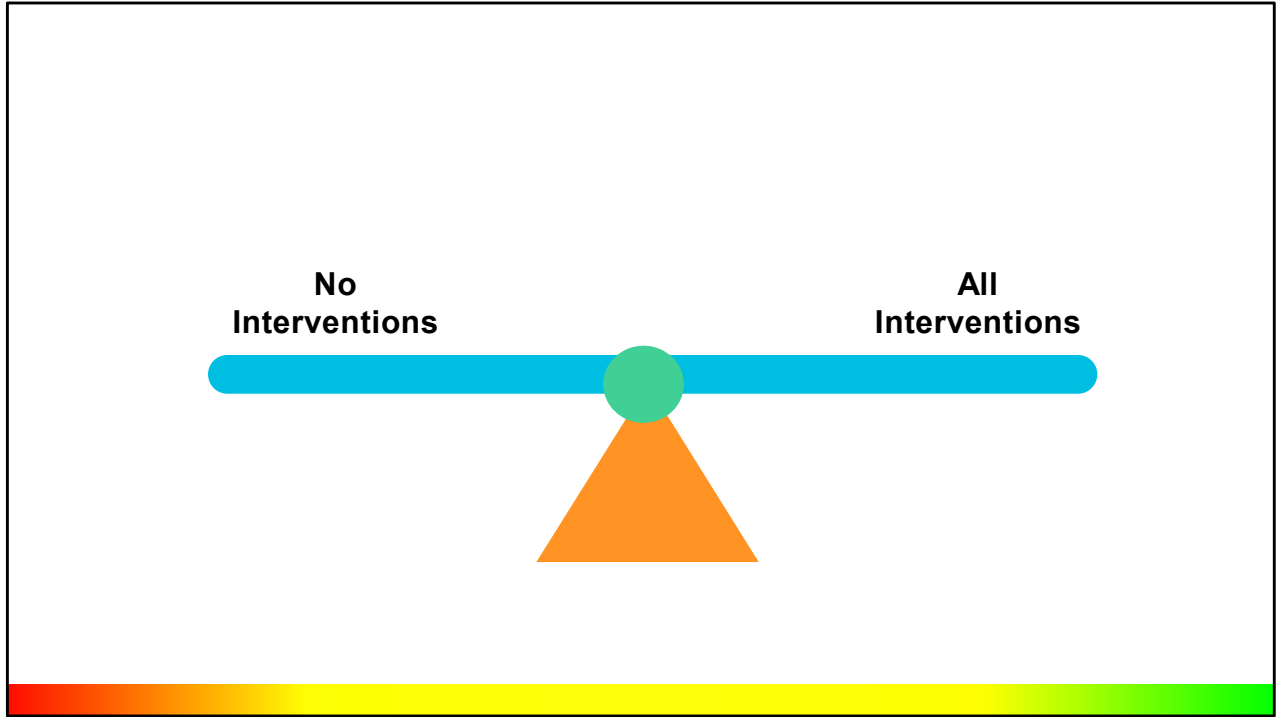
 **Time to improve?**

 **Emotional QoL?**

 **Physical QoL?**









Parent perceptions

Recall bias



Small sample sizes

Non-validated surveys



Single center or few centers

Native language only



LIMITATIONS



QoL: Quality of Life
EOL: End of Life

STRENGTHS

“ *When data sets do not capture statistically significant changes in quality of life using validated scales; patients, family members, and clinicians often still bear witness to changes, which significantly impact a child’s daily wellness and warrant attentiveness in patient care.* **”**

Weaver, et. Al “Proxy-Reported Quality of Life and Family Impact for Children Followed Longitudinally by a Pediatric Palliative Care Team”

DATA CONSIDERATIONS

- **Settings**
 - Inpatient
 - Outpatient
 - Home
- Refer patients to hospice
- Attending hospice provider

ROLE OF A PA

PEDIATRIC HOSPICE AND PALLIATIVE CARE

- **Role**

- Provide care individually and as a team
 - Symptom management
 - Pain management
 - Counseling and education
 - Develop goals of care
 - Care coordination
- Submit orders
- Bill for services and reimbursement

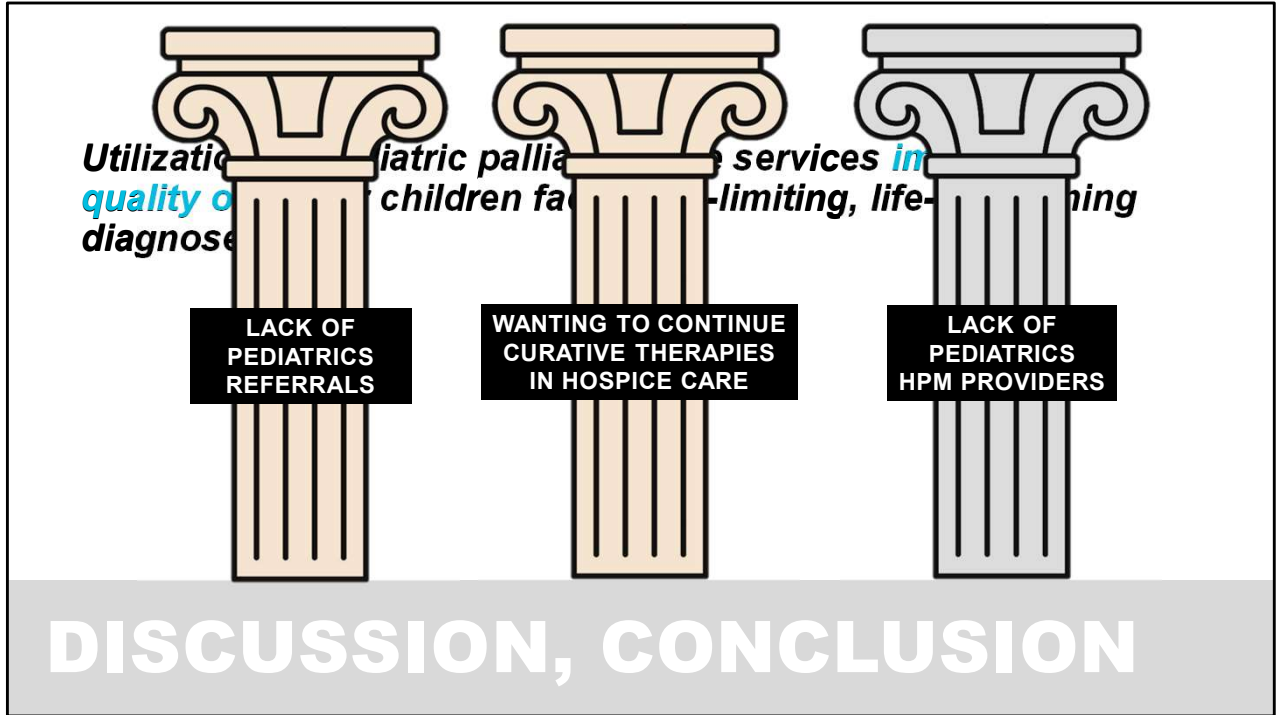
- **Limitation: cannot certify terminal illness, cannot recertify**



Medicare Patient Access to Hospice Act:
Effective January 1, 2019

ROLE OF A PA

PEDIATRIC HOSPICE AND PALLIATIVE CARE



- Lack of referrals may be due to:
 - Misconceptions about pediatrics palliative care
 - Lack of financial coverage
- Availability of providers

FUTURE DIRECTIONS

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THANK YOU

