Palliative Care Medical Home:

Lessons from a Pediatric Palliative Care Practice Serving as a Medical Home for Children with Complex Chronic Conditions

Glen Medellin, MD, FAAP, FAAHPM

Greehey Distinguished Chair of Palliative Care for Children University of Texas Distinguished Teaching Professor Professor, Department of Pediatrics



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→ Webinar:

 The Anatomy of a Palliative Care Home Visit Thursday, January 12, 2016 at 1:30 pm ET Featured Presenter: Barbara Sutton, APN, ACHPN



Virtual Office Hours:

- Billing for Community-Based Palliative Care with Anne Monroe, MHA
 - Monday, December 12 at 12 p.m.ET
- Ask a Program Leader (Open Topics) with Andrew Esch, MD, MBA
 - Monday, December 12 at 2 p.m.ET
- Planning for Community-Based Palliative Care with Jeanne Twohig, MPA
 - Wednesday, December 13 at 11 a.m. ET
- Building Effective Payer-Provider Partnerships with Tom Gualtieri-Reed, MBA and Kristofer Smith, MD, MPP
 - Wednesday, December 13 at 1 p.m. ET



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Faculty Disclosure

- → In the past 12 months, I have no relevant financial relationships with the manufacturer(s) of any commercial product(s) and/or provider(s) of commercial services discussed in this CME activity.
- → I do not intend to discuss an unapproved or investigative use of a commercial product/device in our presentation.





Learning Objectives

At the conclusion of this webinar, the learner will be able to:

- Describe a medical home model that provides primary care for children with palliative needs
- Identify key service capabilities needed for a successful medical home approach
- Describe benefits of a reliable medical home approach for patients and families
- Identify strategies for working with primary care practices to help them manage patients, while improving identification of patients appropriate for more focused management
- Identify 2 financial justifications for investment in medical home design for palliative care patients

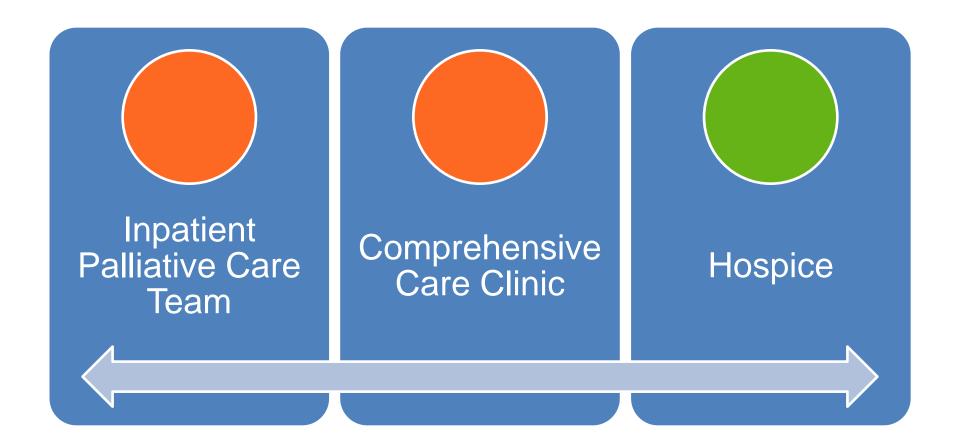


Comprehensive Care Clinic

- → Outpatient service started in 2008
- Medical home for children with palliative care needs and medical complexity
- → Inpatient palliative care team started in 2015
- Inpatient team with average daily census of 12 patients
- Children's Hospital within County Health System

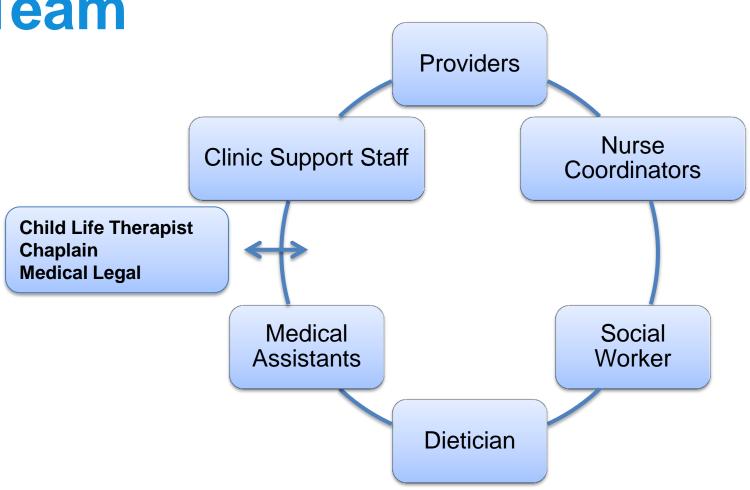


Wrap-around Palliative Care Services





Comprehensive Care Clinic Team





BACKGROUND LITERATURE



Palliative children live a long time

- → Utah
- → Patients who received inpatient PPC
- → Follow-up:
 - 26% died within 10 days of discharge
 - 24% died between 10 and 730 days
 - 50% survived to 730 days after discharge

Smith AG, Andrews S, Bratton SL, Sheetz J, Feudtner C, Zhong W, Maloney CG. Pediatric palliative care and inpatient hospital costs: a longitudinal cohort study. Pediatrics 2015;135(4):694-700.



Children spend most of their last year of life at home

Diagnosis	Hospital Days Last Year Life
Neuromuscular	24
Cardiovascular	29
Congenital / Genetic	31
Malignancy	51
>3 LT-CCC	75

Smith AG, Andrews S, Bratton SL, Sheetz J, Feudtner C, Zhong W, Maloney CG. Pediatric palliative care and inpatient hospital costs: a longitudinal cohort study. Pediatrics 2015;135(4):694-700.



Hospital care is expensive

EXHIBIT 1

Health Care Use And Spending For Children With Medical Complexity And Medicaid, By Health Service, 2011

Health service	Percent of children using the health service	Annual spending per child (\$)	Percent of health care spending for children with medical complexity
Hospital care Outpatient specialty and other care	13.0	5,903	47.2
	66.0	3,136	25.1
Medications Outpatient therapy	89.9	1,677	13.4
	22.4	593	4.7
Emergency care Primary care	32.3	383	3.1
	59.6	275	2.2
Laboratory and radiographic testing	54.9	230	1.8
Home health care	3.2	204	1.6
Medical equipment and supplies	16.7	98	0.8

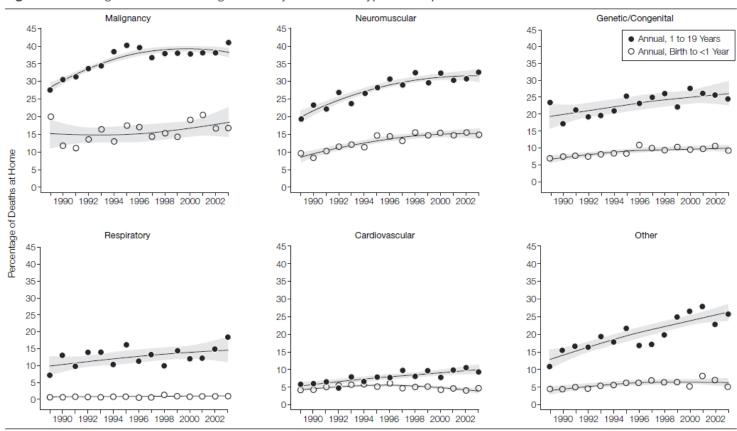
SOURCE Authors' analysis of 2011 data from the Truven Marketscan Medicaid Database.

Berry JG, Hall M, Neff J, Goodman D, Cohen E, Agrawal R, Kuo D, Feudtner C. Children with medical complexity and Medicaid: spending and cost savings. Health affairs (Project Hope) 2014;33(12):2199-2206.



Many children die at home

Figure 3. Percentage of Deaths Occurring at Home by Predominant Types of Complex Chronic Conditions, 1989-2003



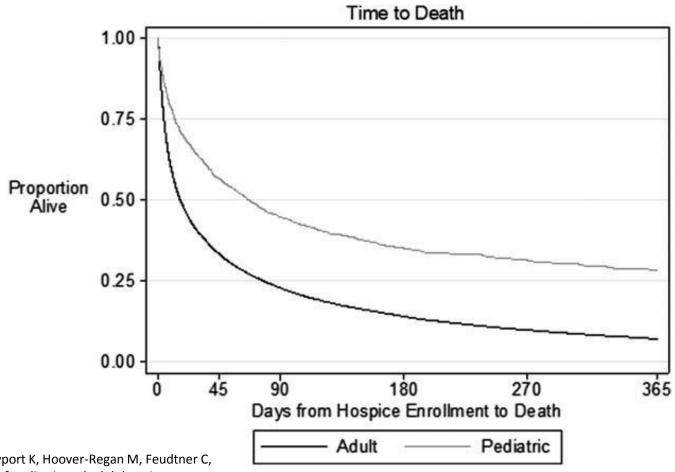
The dots represent the percentage of deaths that occurred at home each year. The curved lines represent the temporal trend in the percentage of deaths that occurred at home as estimated by the best fitting fractional polynomial model, which also estimated the 95% confidence intervals indicated by the shaded areas.

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(Reprinted) JAMA, June 27, 2007—Vol 297, No. 24 2729



Children with terminal diagnoses live a long time



Dingfield L, Bender L, Harris P, Newport K, Hoover-Regan M, Feudtner C, Clifford S, Casarett D. Comparison of pediatric and adult hospice patients using electronic medical record data from nine hospices in the United States, 2008-2012. Journal of palliative medicine 2015;18(2):120-126.

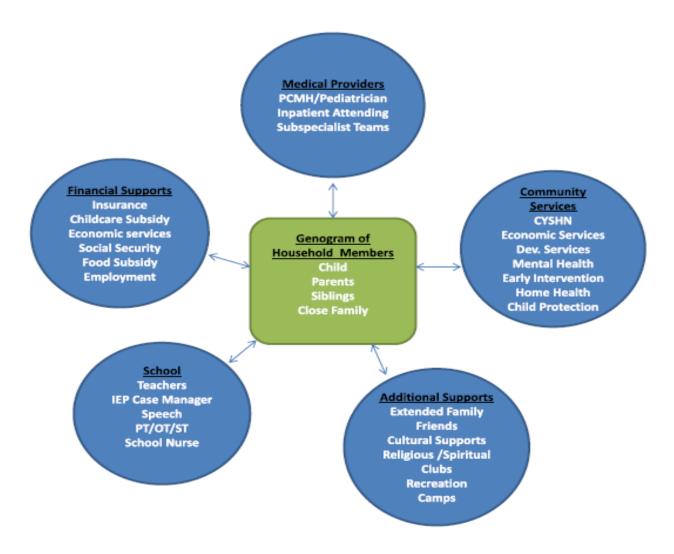


How palliative care teams interface with outpatient services

	#	%
Relationship with 1 or more hospices	81	80.2
Health system has own hospice	13	12.9
Palliative care and hospice function together	7	6.9
Home Visits	33	29.5
Outpatient clinic	21	18.8
Patients seen in other clinics	67	59.8
Outpatient phone support	68	60.7
Home-based palliative care	12	10.7
No outpatient services	24	21.4



Outpatient care is complex





San Antonio Experience

- → Selecting patients for the clinic
- → Stratifying complexity and needs



Medical Criteria

- 1. Hospice, DNR, or life-limiting illness with death probable during childhood
- 2. Chronic illness with 3 or more organ systems involved requiring subspecialty support
- 3. Technology dependence of 2 or more organ systems
- 4. Complex pain and symptom management

Examples:

- Tay Sachs, adrenoleukodystrophy
- Tracheostomy, home ventilator and gastrostomy
- Traumatic brain injury with gastrostomy and spasticity
- Hypoplastic left heart
- Chronic pancreatitis

Financial Criteria

Chronic illness impacting ADL and:

- 1. 3 or more ED visits in 6 months
- 2. 2 or more admissions in 6 months
- 3. Identification by Hospital Administration

Examples:

- Short gut with recurrent line infections
- Renal insufficiency with prolonged hospitalizations
- ECMO with residual impairment

Social Criteria

Chronic illness impacting ADL and:

- 1. Inability to be supported in current UHS primary or subspecialty clinic due to medical illiteracy or family psychosocial limitations
- 2. Foster care
- 3. Child Protective Services

Examples:

- Cerebral palsy removed by CPS in medical foster home
- Brain tumor with family having difficulty coordinating care

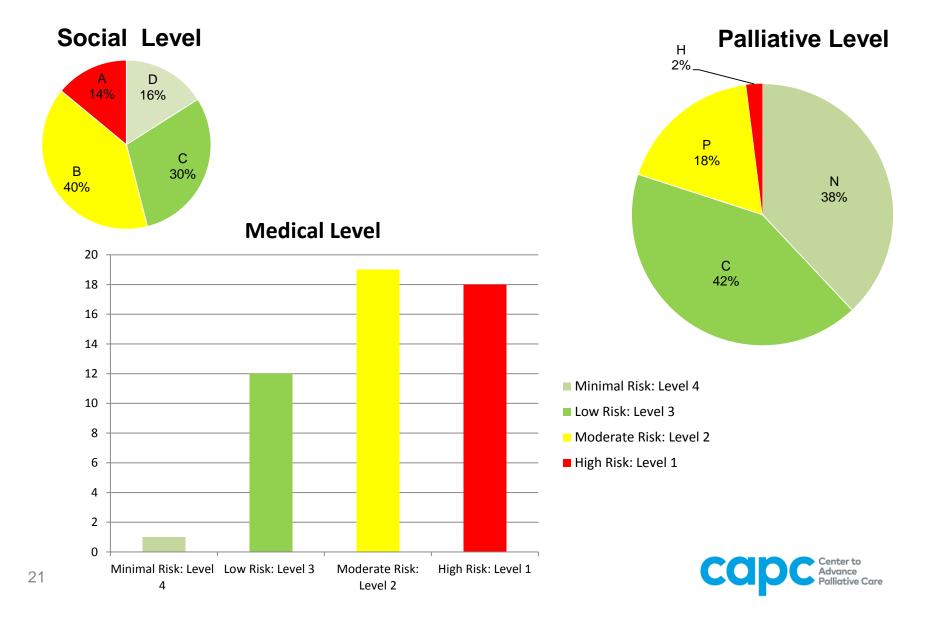
Risk category	Medical		
	Healthcare utilization (in last 6 months)	Medical complexity	Functional
Minimal risk (Level 4)	No ED visitsNo inpatient hospitalization	No chronic medical conditions	Appropriate motor, speech, feeding functions
Low risk (Level 3)	1 ED visits for emergent needs2 sick visits	 1 active chronic diagnoses, well controlled Less than 5 medications 	Assistance in 1 domain of motor, speech or feeding
Moderate risk (Level 2)	 2 ED visits for emergent 1 ED visit for non-emergent 1 inpatient hospitalization 3 sick visits 4+ specialists visits 	 2 active chronic diagnoses or 3 chronic diagnoses well controlled 5 to 9 medications 	Wheelchair dependent, home nursing
High risk (Level 1)	 More than 2 ED visits for emergent or nonemergent needs 2+ inpatient hospitalizations 1 prolonged hospitalization (>2 weeks) Subspecialty management requiring CCC coordination 	 10+ medications 3+ active chronic diagnoses Complex pain and symptom management Life-threatening illness 	Bed-bound or restricted to home

Risk category	Social	
D	Compliant with appointmentsNo social concerns	
С	 Few missed appointments Needs assistance to follow medical plan No social concerns 	
В	 Multiple missed appointments Needs social or coordination assistance at least monthly Social concerns 	
Α	 Many missed appointments Intense coordination needs Intense social worker support CPS involvement 	

Risk category	Palliative	
N	- Stable illness	
С	 Complex chronic illness, life- altering but not life- threatening 	
P	 Palliative Life-threatening but not actively dying Complex pain and symptom management 	
Н	HospiceHospice-qualifiableOOH DNR	



Most Recent 50 Clinic Visits



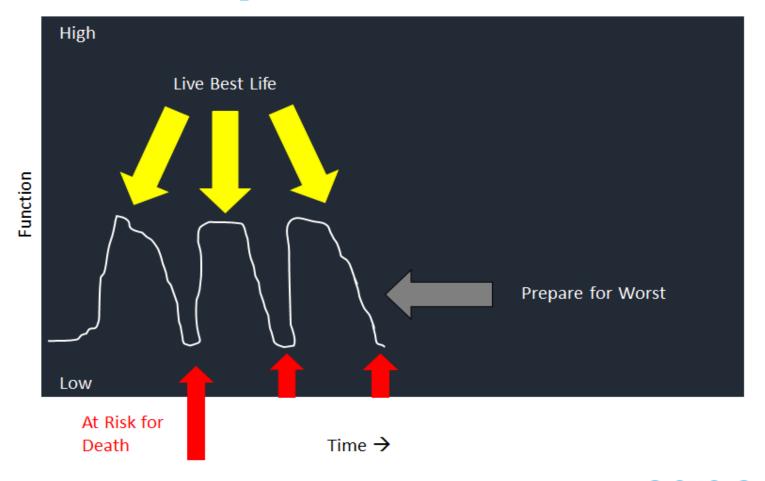
Staffing

- → Per 1.5 FTE Provider (9 clinic sessions per week)
 - 2 Nurse Coordinators
 - 2 medical Assistants
 - 1 Social Worker
 - 1 Dietician

- → Access to
 - Chaplain
 - Child Life Therapist
- → Clinical Operations



Inpatient vs. Outpatient Illness Experience





Comprehensive Care Clinic 2015

- →359 enrolled children
- →2,338 visits
- → Average 4.3 visits per patient per year
- → Death rate 4.3:100 patients per year
- → 4.8% enrolled in concurrent hospice

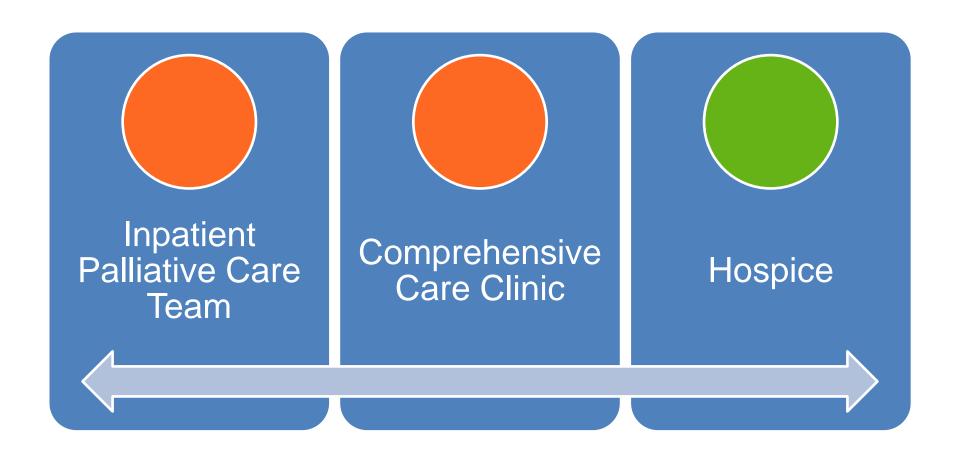


Children who died in CCC panel

- → Median age 6 years
- → Median time on service 11 months
- → Enrolled in hospice 30.7%
- → Died at home 71.8%
- → Died suddenly 56.4%



24/7 Coverage





Financials for clinic operations

- → Salary for dedicated staff \$443,445
- → Supplies \$12,801
- → Hospital-based clinic revenue about 30% costs
- → Average PMPY \$13,013



Need Arguments

- → Patients
- → Specialists
- → Hospitalists
- → Neonatologists



Stratifying expensive patients

- →315 patients
- → 15 patients incurred > \$3M direct costs to healthcare system
- →Other 300 patients incurred an additional \$3M direct costs



Financial Arguments

- → Cost avoidance is the best argument.
- → These children are expensive high risk group.
- Cohorting these children can initially look prohibitively expensive.
- → We need to use different arguments than adult palliative care – cost savings is hard to show.



Medicaid Funding

- → 1915(c) Pediatric palliative Care Waivers
 - California
 - Colorado
 - North Dakota
- → 1915 (c) Medically Fragile Children Waivers
 - New York



Medicaid Funding

- →1915(b) Waiver
 - Florida
- → EPSDT State Plan Amendment
 - Washington
- → State Funded
 - Massachusetts



How: Funding Looking Forward

- → Medicaid Managed Care Organizations (MCO)
 - Per patient per month
 - Funding recognition for being a center of excellence
 - Payments for telephone management, care coordination
 - Exploring Tele-health
- → Accountable Care Organization (ACO)
 - High risk group



Transitions

- → Improvements in medical care and technology have increased the likelihood that CSHCN will live to adulthood.
- → Patients and families are comfortable with their pediatric medical services and are hesitant to begin the transition to adult care.



Transitions

- →90% of children with chronic health care conditions survive to adulthood
- →500,000 youth with special health care needs reach the age of 18 every year
- →AYA Adolescent and Young Adult



Secondary Palliative Care

→ Provided by specialist palliative clinicians that provide consultative and specialty care.



Primary Palliative Care

- → Care provided by all clinicians caring for a patient with serious illness
- → Requires basic clinical skills that should be required of all clinicians
- → Education at all levels of clinical care needed to allow effective care to be provided





Structural barriers

-Time constraints, too many patients-too little time



Knowledge barriers

-Limited HPM education during training, limited time for CME



-Limited reimbursement for time intensive service



Lessons Learned

- → Pediatric palliative care is often delivered over years.
- A coordinated approach makes being on-call very doable.
- → Splitting inpatient and outpatient workflows decreases stress of teams.
- → Palliative care doctors must partner with Complex Care and Primary Care Pediatricians.



Where do we go from here?

- → Expansion CCC without overwhelming clinic.
- → Increasing ability of other pediatric clinics in system to take care of less complex patients.
- → Hiring providers that like medical complexity, but are not HPM trained.
- → Contracting with MCO.
- → Telehealth



Questions?

Do you have questions for the presenter?

Type your question into the chat box on your control

panel:

