SUPPLEMENTAL MATERIAL

Table S1. Survey About Caring for Children with Heart Disease – Parent.

Where is this survey being administered?	
Cardiac ICU	
Cardiology ward Other	
As part of this initiative, there is a doctor survey as well. Can you tell us who at Boston Children's Hospital you const to be your child's heart doctor?	sider
How long have you known about your child's heart problem?	
<1 month	
1 to 6 months	
6 months to 1 year >1 year	
At what age was your child diagnosed with a heart problem?	
Before he/she was born	
In the first week of life	
At age	
Has your child ever been treated at a hospital other than Boston Children's Hospital for his/her heart condition? YES, Where?	
NO	
YOUR CHILD'S MEDICAL ISSUES	
We would first like to ask you about some of the medical problems your child may be experiencing.	
In the past week, how well prepared have you been for the medical problems your child is experiencing?	
Very prepared	
Somewhat prepared	
A bit prepared	
Not at all prepared	
How has your child been obtaining nutrition in the past week?	
Eats by mouth	
By feeding tube	
Eats by mouth and feeding tube	
Nutrition through IV	
Not receiving nutrition	
Other	
Which of the following services, if any, have contributed towards improvement in your child's quality of life in the p	ast
week? Check all that apply.	
Child life specialist	
Hospital school teacher	
Psychology/Psychiatry	
Social work	
Spiritual advisor/Chaplain	
Palliative care/PACT team clinician Other (please describe:)	
What best describes your child's current functional status (i.e. symptoms and activity level)? No limitation of physical activity	
Slight limitation of physical activity	
Marked limitation of physical activity	
Unable to carry on any physical activity without discomfort	
In the past week, to what degree do you feel your child is experiencing symptoms related to his/her heart condition?	
A great deal	
A lot	

Somewhat

A little Not at all

In the last week, has your child experienced any of the following symptoms?

es N

Breathing difficulties

Pain

Difficulty feeding or poor appetite

Nausea/Vomiting

Thirst

Low Energy of Fatigue

Sleep Disturbance

Sadness or Depression

Anxiety or Nervousness

Irritability

If yes, how much did your child suffer from each symptom?

A great deal A lot Somewhat A little Not at all

Breathing difficulties

Pair

Difficulty feeding or poor appetite

Nausea/Vomiting

Thirst

Low Energy of Fatigue

Sleep Disturbance

Sadness or Depression

Anxiety or Nervousness

Irritability

During the past week, has your child received treatment or interventions specifically for this symptom?

Yes N

Breathing difficulties

Pain

Difficulty feeding or poor appetite

Nausea/Vomiting

Thirst

Low Energy of Fatigue

Sleep Disturbance

Sadness or Depression

Anxiety or Nervousness

If yes, how well did the treatment work in decreasing these symptoms?

Successfully Somewhat successfully Not successfully

Breathing difficulties

Pain

Difficulty feeding or poor appetite

Nausea/Vomiting

Thirst

Low Energy of Fatigue

Sleep Disturbance

Sadness or Depression

Anxiety or Nervousness

Irritability

Overall, to what extent do you feel that your child's medical team has asked about his/her symptoms over the past week?

A great deal

A lot

Somewhat

A little

Not at all

Overall, to what extent do you feel that your child's medical team has addressed his or her symptoms over the past week?

	A great deal
	A lot
	Somewhat
	A little
	Not at all
	the following describes the amount of suffering your child had from his/her symptoms in the last week? Would e/she suffered:
	A great deal
	A lot
	Somewhat
	A little
	Not at all
Please ad	d any additional information regarding your child's symptoms:
RECENT	TREATMENTS OR INTERVENTIONS
treatmen	which of the following describes the amount of suffering you perceive your child is experiencing as a result of t/interventions for his/her heart condition at this time? A great deal
	A lot
	Somewhat
	A little
	Not at all
Overall,	which of the following describes the amount you feel that your child is benefitting as a result of t/interventions for his/her heart condition at this time?
	A great deal
	A lot
	Somewhat A little
	A nule Not at all
	ivot at an
	t month, did your child undergo cardiac catheterization?
	Yes
	No
	the following describes the amount of suffering you perceive your child is experiencing as a result of undergoing
	atheterization?
	A great deal
	A lot
	Somewhat
	A little
	Not at all
	Not applicable
	the following describes the amount that you feel your child is benefitting as a result of undergoing cardiac zation for his/her heart condition?
	A great deal
	A lot
	Somewhat
	A little
	Not at all
	Not applicable
	scribe in what way(s) he/she is suffering and/or benefitting from undergoing cardiac catheterization?
	t month, did your child undergo cardiac surgery?
	Yes
	No

	he following describes the amount of suffering you perceive your child is experiencing as a result of undergoing
cardiac su	rgery?
A	x great deal
Α	Alot
S	omewhat
Δ	A little
	Not at all
	Not applicable
1	tot applicable
	he following describes the amount that you feel your child is benefitting as a result of undergoing cardiac r his/her heart condition?
Α	x great deal
	X lot
S	omewhat
Δ	A little
	Not at all
	Not applicable
DI	
Please des	cribe in what way(s) he/she is suffering and/or benefitting from undergoing cardiac surgery?
_	month, did your child undergo any non-cardiac procedure? Yes (What type?)
	To
ľ	NO CONTRACTOR OF THE PROPERTY
	he following describes the amount of suffering you perceive your child has experienced as a result of g this non-cardiac procedure?
A	x great deal
Α	X lot
S	omewhat
	A little
	Not at all
	Not applicable
Which of t	he following describes the amount that you feel your child is benefitting as a result of undergoing this non-
cardiac pr	ocedure for his/her heart condition?
_ A	x great deal
	A lot
S	omewhat
	little
	Not at all
	Not applicable
1	ot applicable
Please des	cribe in what way(s) he/she is suffering and/or benefitting from this non-cardiac procedure?
nn o crio	
	SIS AND GOALS OF CURRENT CARE
	we be asked some questions regarding your current goals and expectations for your child. We ask that you base your how you feel that your child is doing at this point in time, based on all of the information you have today.
	d you describe the quality of care delivered by your child's care team during the past month?
	Very good
	Good
	Yair
P	oor
How well o	lo you feel that you understand the likely course of your child's heart disease (i.e. prognosis)?
	Extremely well
	Vell
	omewhat
	A little bit
	Not well at all
1	TOTAL WE WANT

How likely do you think it will be that your child's heart condition will require lifelong interventions or treatment? Very likely Somewhat likely Not likely	
How likely do you think it will be for your child to have limitations in physical activity (such as difficulties exercisin compared with what you would expect if your child did not have a heart condition? Very likely	g),
Somewhat likely Not likely	
How likely do you think it will be for your child to have limitations in learning, development, and behavior (such as difficulty with schoolwork), compared with what you would expect if your child did not have a heart condition?	
Very likely	
Somewhat likely Not likely	
How often do you worry that your child will get sicker?	
Never	
A little	
Sometimes	
A lot	
All the time	
I am unsure if my child is getting better or worse. Strongly disagree	
Disagree	
Undecided	
Agree	
Strongly agree	
Have you ever had a conversation with your child's healthcare team that included discussion on what would happen your child got sicker?	ı if
Yes	
No	
Was this conversation helpful?	
Yes	
No Not applicable	
Not applicable	
Comments:	
What is your current understanding of how long your child will live?	
Days to weeks	
Weeks to months	
Months to 1 year Several years	
Into adulthood	
Normal life expectancy	
Comments:	
To what extent does the day to day management of your child's heart condition make it challenging to talk about lot torm issues such as promosic?	ng-
term issues such as prognosis? A great deal	
A great deal A lot	
Somewhat	
A little	
Not at all	

How likely do you think it is that your child will still be in Boston Children's Hospital one month from now?

Very likely Somewhat likely Not likely

YOUR CHILD'S CARE TEAM & DELIVERY OF NEWS

During the past month, has your child's medical provider had a conversation with you during which he/she specifi	ically
delivered new information regarding your child's prognosis or course of treatment?	

Yes No

Would you please share some details of what was discussed during this conversation?

To what extent did you feel this discussion was open and honest?

A great deal

A lot

Somewhat

A little

Not at all

Not applicable

To what extent did you feel this discussion was confusing?

A great deal

A lot

Somewhat

A little

Not at all

Not applicable

During this discussion, were you able to express your hopes?

A great deal

A lot

Somewhat

A little

Not at all

Not applicable

If so, were your hopes adequately addressed?

A great deal

A lot

Somewhat

A little

Not at all

Not applicable

Were you able to express your worries?

A great deal

A lot

Somewhat

A little

Not at all

Not applicable

If so, were your worries adequately addressed?

A great deal

A lot

Somewhat

A little

Not at all

Not applicable

Did you need to make a decision about your child's medical care following receipt of this new information?

Overall, how adequate has communication between you and your child's care team been during the past month? Excellent Very good
Good
Fair
Poor
What have you found to be the most effective way for you to receive information from the care team about your child heart condition? Attending bedside rounds Scheduled formal family meetings Informal bedside conversations/updates
When making decisions regarding your child's care, which of the listed caregiver's opinion do you regard as the most
important in guiding these decisions? Please choose only ONE answer.
Your child's primary cardiologist
Intensive Care Unit physician Cardiac Surgeon
Family member
Pediatrician
Other
What other sources do you use to obtain information about your child's heart condition? Check all that apply.
Talking with other parents of children with heart disease via social media
Talking with other parents of children with heart disease in person
Talking with other parents of children with heart disease over the phone
Searching the internet (Which websites?) Reading books
reading books
CURRENT PARENT SOCIO-DEMOGRAPHIC CHARACTERISTICS We would now like to ask you some information about yourself. This information will remain confidential.
What is your relationship with the patient?
Mother
Father
What year were you born?
Choose the response that most nearly describes the highest degree you obtained:
Less than high school
High school diploma or equivalent (GED)
College degree
Graduate degree
Which of the following groups best describes your racial background?
American Indian / Alaskan Native
Asian Black or African American
Native Hawaiian or Other Pacific Islander
White
Other (please specify):
Which group best describes your ethnic background?
Hispanic or Latino
Not Hispanic or Latino

Please describe your marital status Not Married

Married or living with partner

Earlier studies by our group have shown that many families experience financial stress during their child's hospitalization. Information about finances from families like yours will help us be sure that finances do not impact a child's experience during treatment.

Survey responses will be kept confidential and not shared with your treatment team. No information will be presented in any way that would permit identification of your family or child.

Please answer these questions thinking about the 6 months before your child's current hospitalization.
In the last 6 months, was there a time when you were not able to pay the rent or mortgage on time because of financial difficulties?
Yes
No
How many people are currently living in your household, including yourself?
How many bedrooms are in your home?
"Within the past 6 months we worried whether our food would run out before we got money to buy more." Often true
Sometimes true
Never true
Don't know or refused
"The food that we bought just didn't last, and we didn't have the money to get more."
Often true
Sometimes true
Never true
Don't know or refused
Which of these categories best describes your total combined family income for the past 12 months? This should includ income (before taxes) from all sources, wages, rent from properties, social security, disability and/or veteran's benefits, unemployment benefits, workman's compensation, help from relatives (including child payments and alimony), etc. Please give your best estimate:
Please provide your zip code prior to your child's hospitalization:
During your child's hospitalization, have you been able to stay locally?
Yes
No
If yes, where are you staying? (select all that apply)
In a local hotel
With local relatives
In Patient Family Housing
At bedside
A sleep space
Other, please describe:
Not applicable
If no, is it because? (select all that apply)
Live close enough
Local hotels are too expensive
Affordable options through hospital resources are not available
Work
Commitments at home
Other, please describe:
Not applicable

Table S2. Survey About Caring for Children with Heart Disease – Physician.

SYMPTOMS AND QUALITY OF LIFE

If this patient is currently < 8 years of age, what best describes the patient's current functional status according to the Modified Ross Heart Failure Classification for Children?

Class I: Asymptomatic

Class II: Mild tachypnea or diaphoresis with feeding (infants) or mild dyspnea on exertion (older children)

Class III: marked tachypnea or diaphoresis with feeding (infants) or marked dyspnea on exertion (older children) or prolonged feeding times with growth failure

Class IV: Symptoms such as tachypnea, retractions, grunting, or diaphoresis at rest

If this patient is currently >8 years of age, what best describes the patient's current functional status according to the New York Heart Association Classification?

Class I: No limitation of physical activity. Ordinary physical activity does not cause undue fatigue, palpitation, or shortness of breath.

Class II: Slight limitation of physical activity. Comfortable at rest. Ordinary physical activity results in fatigue, palpitation, shortness of breath.

Class III: Marked limitation of physical activity. Comfortable at rest. Less than ordinary activity causes fatigue, palpitation, or dyspnea.

Class IV: Unable to carry on any physical activity without discomfort. Symptoms of heart failure at rest. If any physical activity is undertaken, discomfort increases.

In the past week, to what extent is this patient experiencing symptoms attributable to his/her heart condition?

A great deal

A lot

Somewhat

A little

Not at all

Overall, to what extent do you feel that the team has addressed this patient's symptoms in the last week?

A great deal

A lot

Somewhat

A little

Not at all

Which of the following describes the amount of suffering you perceive the patient is experiencing as a result of his/her symptoms in the last week?

A great deal

A lot

Somewhat

A little

Not at all

Overall, which of the following describes the amount of suffering you perceive the patient is experiencing as a result of receiving treatment/interventions for his/her heart condition at this time?

A great deal

A lot

Somewhat

A little

Not at all

Overall, which of the following describes the amount that you feel the patient is benefitting as a result of receiving treatment/interventions for his/her heart condition at this time?

A great deal

A lot

Somewhat

A little

Not at all

GOALS OF CURRENT CARE AND PROGNOSIS

In the past week, how well prepared do you feel that this patient's parents have been for the medical p	roblems thei	r child
is experiencing?		

Very prepared Somewhat prepared A bit prepared Not at all prepared

How well do you think this patient's family understands their child's prognosis?

Extremely well

Well

Somewhat

A little bit

Not well at all

How likely do you think it is for this patient's heart condition to require lifelong interventions or treatment?

Very likely

Somewhat likely

Not likely

How likely do you think it will be for this patient to have limitations in physical activity (such as difficulties exercising), compared with what you would expect if this patient did not have a heart condition?

Very likely

Somewhat likely

Not likely

How likely do you think it will be for this patient to have limitations in learning, development, and behavior (such as difficulty with schoolwork), compared with what you would expect if this patient did not have a heart condition?

Verv likely

Somewhat likely

Not likely

Have you ever had a conversation with this patient's family that included discussion on what would happen if their child got sicker?

Yes

No

Was this conversation helpful?

Yes

What is your current understanding of how long the patient will live?

Days to weeks

Weeks to months

Months to 1 year

Several years

Into adulthood

Normal life expectancy

What makes this question difficult to answer?

Would you be surprised if this child died within the next year?

Yes

No

How likely do you think it is that this patient will still be at Boston Children's Hospital one month from now?

Very likely

Somewhat likely

Not likely

COMMUNICATION & DELIVERY OF NEWS

To what extent does the day to day management	t of this patient's heart condition	make it challenging to talk about long-
term issues such as prognosis?		

A great deal

A lot

Somewhat

A little

Not at all

During the last month, how often do you think the family received conflicting information from different health professionals?

Always

Most of the time

Some of the time

Rarely

Never

To what extent do you feel that your expectations for this patient's prognosis are the same as the expectations of the patient's family?

A great deal

A lot

Somewhat

A little

Not at all

Overall, how adequate do you feel the team's communication with this family has been in the past month?

Excellent

Very good

Good

Fair

Poor

What have you found to be the most effective way for this family to receive information from the care team about their child's heart condition?

Attending bedside rounds

Scheduled formal family meetings

Informal bedside conversations/updates

Do you think that participating in this study has changed the way that you communicate with this family?

A great deal

A lot

Somewhat

A little

Not at all