Paediatric palliative care providers' perspectives and practices in the care of children with complex cardiac conditions

Introduction

Thank you for taking part in this national survey.

We are seeking your views to better understand and improve services for children with complex cardiac conditions, their parents and professionals caring for them.

We estimate that the survey will take approximately 10 minutes to complete. Your responses cannot be saved so for your views to be shared, you must finish the survey after opening it. The deadline for survey completion is 30 June 2018.

We greatly appreciate your time and input

If you have any questions about the survey or would like more information, please contact Sid Vemuri (s.vemuri@ucl.ac.uk).

By continuing with this survey you acknowledge that:

- Submission of the survey indicates your consent to participate.
- All responses are anonymous and neither you nor your institution will be identifiable.
- Participation is entirely voluntary and you may cease answering questions at any time you wish.

Once you have submitted the survey your data cannot be withdrawn.
* 1. Do you agree to continue with this survey?
Yes
○ No

Paediatric palliative care providers' perspectives and practices in the care of children with complex cardiac conditions	
Screening for inclusion	
* 2. Does your practice include clinical care for children with complex cardiac conditions?	
Yes No	

	atric palliative care providers' perspectives and practices in the care of children omplex cardiac conditions	
emog	graphics	
3. G	ender	
	Male	
	Female	
	Prefer not to say	
* 4. Pl	lease select your profession/occupation	
	Doctor	
	Nurse	
	Other (please specify)	

Paediatric palliative care providers' perspectives and practices in the care of children with complex cardiac conditions
Demographics
5. Please select your role
Consultant
Specialty or Associate Grade doctor
Trainee

Paediatric palliative care providers' perspectives and practices in the care of children with complex cardiac conditions
6. Please select your current band
Band 5
Band 6
Band 7 or above
* 7. Please select your primary professional affiliation
Hospital-based palliative care team
Children's hospice
Community-based palliative care team
Other (please specify)
* 8. How long have you worked in your current role?
Less than 1 year
1-3 years
4-6 years
7-9 years
10 years or more
* 9. Which of the following is your primary field ?
General practice
Community children's nursing
Children's hospice care
Children's community palliative care
General paediatrics
Specialist paediatric palliative care
* 10. Do you participate in any prenatal consultations?
Yes
○ No

	Does your main referring institution have a separate cardiac intensive care unit?
	Yes
	No
	On average, what percentage of children who you have provided end of life care to in a given year
	e had a complex cardiac condition?
	<1%
	1-5%
	5-25%
	25-50%
	>50%
\bigcirc	Unsure

Paediatric palliative care providers' perspectives and practices in the care of children with complex cardiac conditions
Clinical practice and experience
* 13. When a child may have a poor outcome, do you think there are barriers to discussing goals of
care? Yes
○ No

Paediatric palliative care providers' perspectives and practices in the care of children with complex cardiac conditions	
Clinical practice and experience	
14. Please describe the barriers	
	8

Paediatric palliative care providers' perspectives and practices in the care of children with complex cardiac conditions					
Clinical practice and experience					

	Strongly disagree	Disagree	Agree	Strongly agre
Palliative care is primarily about providing care at the end of life				
There is no role for palliative care involvement unless the child is expected to die within weeks		\circ	\circ	\circ
Palliative care referral would be acceptable to the parents of most of the children with complex cardiac conditions				
Parents' hope will be undermined if the option for planning care and treatment in anticipation of a child's potential poor outcome (including death) is provided too early				
When a diagnosis with a likely poor outcome is made, parents are routinely offered referral to the palliative care team before management for the child has been agreed				
When there are conflicting disease-specific professional views on the approach to management of a child, a referral to the palliative care team can be helpful				
Young people are capable of playing a role in decision-making				
A palliative care team can assist in symptom management for a child with complex cardiac conditions	0	\circ	\circ	0

	Very confident	Confident	Not confident	Not at all confide
Discussing the goals of care with parents				
Discussing resuscitation status with parents	\circ	\bigcirc	\circ	\circ
Discussing concerns about death and dying with parents				
Caring for a child who is deteriorating over hours-to-days with no realistic chance for survival	0	0	0	0
Prognosticating life expectancy for a child with a complex cardiac condition				
Discussing the option of dying at home, in the hospice or hospital	\circ	0	0	0
Offering advice in the care of a child with a complex cardiac condition				
Providing care to a child with a complex cardiac condition during the 'end-of-life care period' (defined as the time after which you realise that the child has no realistic chance for survival)		0		
.7. Please select if you	u are confident discuss	sing with a young	person (please che	ck all that apply)
	Goals of care	Resuscita	ation status Conce	rns about death and
Aged 12 years		L		
Aged 16 years		L		

Paediatric palliative care p with complex cardiac cond		s and practices in the ca	are of children				
Palliative care involvemen	Palliative care involvement in the care of children with complex cardiac conditions						
-	* 18. To what extent do you agree or disagree that a palliative care team could provide valuable support to clinicians caring for children with complex cardiac conditions						
Strongly disagree	Disagree	Agree	Strongly agree				
			0				
* 19. In the last year, how of complex cardiac conditions	-	eferrals from clinicians car	ing for children with				
Never	Rarely	Occasionally	Regularly				
* 20. Why have children with apply) To support parents in decis	ion making		? (Please select all that				
To assist in discussions wit	h parents around expected o	utcomes and expectations					
To allow parents to plan ca	re in the event of a potential p	oor outcome for the child					
To provide symptom mana	gement to the child or young p	person					
To discuss DNAR status wi	To discuss DNAR status with parents						
To discuss with the parents	To discuss with the parents the option of the child or young person dying at home or in a hospice						
To discuss the issues of illn	To discuss the issues of illness and dying with the parents and/or child or young person						
To assist in finding a resolu	tion of differences between th	ne team and parents wishes for c	are				
Other (please specify)							

* 21. In general, do you feel At the appropriate time		referred to palliative care	Too late				
At the appropriate time	,						

Paediatric palliative care providers' perspectives and practices in the care of children with complex cardiac conditions					
Palliative care involvement					
22. When would be the more appropriate time to refer to palliative care?					

	Paediatric palliative care providers' perspectives and practices in the care of children with complex cardiac conditions							
Sc	Scenarios							
*	23. Do you think the child							
	Child where there are no further surgical management options technically possible	Definitely	Probably	Occasionally	Definitely not			
	Unborn child with an antenatal diagnosis of a single ventricle	\circ	\circ	\circ	0			
	Child with a ventricular assist device in-situ							
	Child with a complex cardiac condition and a major genetic disorder (excluding trisomy 21)	0	\circ	\circ	0			
	Child with symptomatic heart failure from myocardial dysfunction							
	Child with a complex cardiac condition who requires ongoing ICU/HDU admission 30-days after their initial procedure	0						
	Child requiring ECMO							
	Child being planned for an implantable cardiac defibrillator		\circ	\bigcirc	\bigcirc			
	Child being planned for a ventricular assist device							
	Newborn child with a single ventricle proceeding with surgery	0	0		0			
	Child listed and awaiting heart transplantation							
	Where there is lack of professional consensus within the treating team regarding the plan of care	0						

* 24. In the following clinic support for the treating of		t and rank the most useful :	sources of additional
	Colleague in their team	Clinical ethics panel	Palliative Care team
Scenario: Child with a single ventricle, post first-stage palliative surgery, who has recurrent cardiac arrests Issue: The family want full resuscitation but the treating clinician wants to limit ongoing resuscitation interventions			
Scenario: Extremely premature child, now two months corrected age, with chronic lung disease, who has required multiple dilatations for pulmonary vein stenosis affecting all pulmonary veins			
Issue: The family want to pursue surgical repair but the treating clinician feels this should not be offered			
Scenario: Child who has remained in the intensive care for six months with CPAP dependence, following palliative cardiac surgery Issue: The family want a tracheostomy inserted but the treating clinician does not feel it should be offered			
Scenario: Child with trisomy 21, failure to thrive and corrected congenital heart disease Issue: The family want to remove the nasogastric tube and continue with oral feeding only, but the treating clinician thinks the child would benefit from ongoing nasogastric feeds and/or gastrostomy insertion			

Paediatric palliative care providers' perspectives and practices in the care of children with complex cardiac conditions				
	5. Any other comments regarding palliative care involvement in children with complex cardiac			
C	onditions			
Tha	ank you for your participation.			

Paediatric cardiology care providers' perspectives and practices towards palliative care involvement in the care of children with complex cardiac conditions

Introduction

Thank you for taking part in this national survey.

We are seeking your views to better understand and improve services for children with complex cardiac conditions, their parents and professionals caring for them.

We estimate that the survey will take approximately 10 minutes to complete. Your responses cannot be saved so for your views to be shared, you must finish the survey after opening it. The deadline for survey completion is 31 August 2018.

We greatly appreciate your time and input.

If you have any questions about the survey or would like more information, please contact Sid Vemuri (s.vemuri@ucl.ac.uk).

By continuing with this survey you acknowledge that:

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- All responses are anonymous and neither you nor your institution will be identifiable.
- Participation is entirely voluntary and you may cease answering questions at any time you wish.

However, once you have submitted the survey your data cannot be withdrawn.				
* 1. Do you agree to continue with this survey?				
Yes				
○ No				

Paediatric cardiology care providers' perspectives and practices towards palliative care involvement in the care of children with complex cardiac conditions					
Screening for inclusion					
* 2. Dono your practice include clinical care for shildren with complex conditions?					
* 2. Does your practice include clinical care for children with complex cardiac conditions ? Yes					
○ No					

emon	graphics				
Jillog	партнос				
	ender				
	Male				
	Female				
	Prefer not to say				
4. Pl	ease select you	r profession	occupation/		
	Doctor				
	Nurse				
	Other (please speci	fy)			

Paediatric cardiology care providers' perspectives and practices towards palliative care involvement in the care of children with complex cardiac conditions					
Demographics					
5. Please select your current role					
Consultant					
Specialty or Associate Grade doctor					
Trainee					

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6. Please select your cu	ırrent band		
Band 5			
Band 6			
Band 7 or above			

Paediatric cardiology care providers' perspectives and practices towards palliative care involvement in the care of children with complex cardiac conditions				
Demographics				
* 7. Specialty				
Cardiology				
Intensive care				
Cardiac surgery				
General paediatrics				
6				

Paediatric cardiology care providers' perspectives and practices towards palliative care involvement in the care of children with complex cardiac conditions

Demographics					
* 8. Which of the following is your primary field?					
General cardiology	Heart failure/transplant				
Fetal cardiology	Electrophysiology				
Single ventricle service	Cardiac imaging				
Interventional cardiology					
* 9. How long have you worked in your current role?					
Less than 1 year	7-9 years				
1-3 years	10 years or more				
4-6 years					
* 10. Do you conduct any prenatal consultations?					
Yes					
○ No					
* 11. Does your institution have a separate cardiac	intensive care unit?				
Yes					
○ No					
* 12. Does your institution have access to a palliativ	e care team?				
Yes					
○ No					
Unsure					
* 13. Have you had any professional experience wit	h a (please select all that apply)				
Hospital-based palliative care team					
Children's hospice					
Community-based palliative care team					

* 14. On average,	what percentage of children under your	care have died in a given year?
<1%		25-50%
1-5%		>50%
5-25%		Unsure

Paediatric cardiology care providers' perspectives and practices towards palliative care involvement in the care of children with complex cardiac conditions
Clinical practice and experience
* 15. When faced with a child who may have a poor outcome, do you think there arebarriers to discussing goals of care?
Yes
○ No

Paediatric cardiology care providers' perspectives and practices towards palliative care involvement in the care of children with complex cardiac conditions
Palliative care involvement
16. Please describe the barriers

	Strongly disagree	Disagree	Agree	Strongly agree
Palliative care is primarily about providing care at the end of life				
There is no role for palliative care involvement unless the child is expected to die within weeks		0	0	0
Palliative care referral would be acceptable to the parents of most of the children I look after				
Parents' hope will be undermined if the option for planning care and treatment in anticipation of a child's potential poor outcome (including death) is provided too early				
When a diagnosis with a likely poor outcome is made, parents are routinely offered referral to the palliative care team before management for the child has been agreed				
When there are conflicting professional views on the approach to management, a referral to the palliative care team can be helpful			0	
Young people are capable of playing a role in decision-making				
A palliative care team can assist in symptom management in the children I look after	0	0	0	0

Discussing goals of care with parents Discussing resuscitation status with parents Discussing concerns about death and dying with parents Caring for a child who is deteriorating over hours-to-days with no realistic chance for surrivial Prognosticating life expectancy Discussing the option of dying at home, in the hospited or hospited I hospited		Very confident	Confident	Not confident	Not at all confic
resuscitation status with parents Discussing concerns about death and dying with parents Caring for a child who is deteriorating over hours-to-days with no realistic chance for survival Prognosticating life expectancy Discussing the option of dying at home, in the hospice or hospital Referral to a palliative care team Providing care to a child with heart disease during the 'end-of-life care period' (defined as the time after which you realistic chance for survival) 19. Please select if you are confident discussing with a young person (please check all that apply) Goals of care Resuscitation status Concerns about death and Aged 12 years In a young person (please check all that apply)					
about death and dying with parents Caring for a child who is deteriorating over hours-to-days with no realistic chance for survival Prognosticating life expectancy Discussing the option of dying at home, in the hospice or hospital Referral to a palliative care team Providing care to a child with heart disease during the 'end-of-life care period' (defined as the time after which you realistic chance for survival) 19. Please select if you are confident discussing with a young person (please check all that apply) Goals of care Resuscitation status Concerns about death and Aged 12 years	resuscitation status	\bigcirc		\circ	\bigcirc
deteriorating over hours-to-days with no realistic chance for survival Prognosticating life expectancy Discussing the option of dying at home, in the hospice or hospital Referral to a palliative care team Providing care to a child with heart disease during the 'end-of-life care period' (defined as the time after which you realiste that the child has no realistic chance for survival) 19. Please select if you are confident discussing with a young person (please check all that apply) and the dead of the confidence of the confi	about death and dying				
Discussing the option of dying at home, in the hospice or hospital Referral to a palliative care team Providing care to a child with heart disease during the 'end-of-life care period' (defined as the time after which you realise that the child has no realistic chance for survival) 19. Please select if you are confident discussing with a young person (please check all that apply) Goals of care Resuscitation status Concerns about death and Aged 12 years	deteriorating over hours-to-days with no realistic chance for	\circ	\circ	\circ	\circ
dying at home, in the hospice or hospital Referral to a palliative care team Providing care to a child with heart disease during the 'end-of-life care period' (defined as the time after which you realise that the child has no realistic chance for survival) 19. Please select if you are confident discussing with a young person (please check all that apply) Goals of care Resuscitation status Concerns about death and Aged 12 years					
Providing care to a child with heart disease during the 'end-of-life care period' (defined as the time after which you realise that the child has no realistic chance for survival) L9. Please select if you are confident discussing with a young person (please check all that apply) Goals of care Resuscitation status Concerns about death and Aged 12 years	dying at home, in the	0	\circ	0	\circ
with heart disease during the 'end-of-life care period' (defined as the time after which you realise that the child has no realistic chance for survival) 19. Please select if you are confident discussing with a young person (please check all that apply) Goals of care Resuscitation status Concerns about death and Aged 12 years					
Aged 12 years Goals of care Resuscitation status Concerns about death and	with heart disease during the 'end-of-life	\bigcirc	0	\circ	
Aged 12 years	realise that the child has no realistic chance				
	realise that the child has no realistic chance for survival)	are confident discus	sing with a youn g	ı person (please ched	ck all that apply)
Aged 16 years	realise that the child has no realistic chance for survival)				
	realise that the child has no realistic chance for survival) 19. Please select if you a				
	realise that the child has no realistic chance for survival) 19. Please select if you a Aged 12 years				
	realise that the child has no realistic chance for survival) 19. Please select if you a Aged 12 years				

	ic cardiology care provid ent in the care of childre			palliative care
Palliative	e care involvement			
* 20. To your te	what extent do you agree o	or disagree that a pa	alliative care team can pro	ovide valuable support to
:	Strongly disagree	Disagree	Agree	Strongly agree
palliati Ne	the last year, how often hav ve care team? ver rely	e you made referra	ls or encouraged others to	o make a referral to the
O 0	casionally			
Re	gularly			
To ou To ou To pe Ott	nen would you consider mal support parents in decision makir assist in discussions with parents toomes and expectations allow parents to plan care in the etcome for the child provide symptom management to rson her (please specify)	around expected event of a potential pool the child or young	To discuss DNAR status w To discuss with the parent: person dying at home or ir To discuss the issues of illi and/or child or young person To assist in finding a resoluteam and parents wishes for	ith parents s the option of the child or young a hospice ness and dying with the parents on ution of differences between the or care
At t	the appropriate time	Too early	Too late	Not applicable, as no children I look after are referred to palliative care

Paediatric cardiology care providers' perspectives and practices towards palliative care involvement in the care of children with complex cardiac conditions
Palliative care involvement
24. When would be the more appropriate time to refer to palliative care?

Paediatric cardiology care providers' perspectives and practices towards palliative care involvement in the care of children with complex cardiac conditions
Scenarios

25. Do you think the chi	dren in the followi	ng clinical scenarios	should be referred to	palliative care
	Definitely	Probably	Occasionally	Definitely not
Child where there are no further surgical management options technically possible				
Unborn child with an antenatal diagnosis of a single-ventricle				\bigcirc
Child with a ventricular assist device in-situ				
Child with a complex cardiac condition and a major genetic disorder (excluding trisomy 21)	0			0
Child with symptomatic heart failure from myocardial dysfunction				
Child with a complex cardiac condition who requires ongoing ICU/HDU admission 30-days after their initial procedure	0			
Child requiring ECMO				
Child being planned for an implantable cardiac defibrillator	\circ	\bigcirc		\circ
Child being planned for a ventricular assist device				
Newborn child with a single-ventricle proceeding with surgery	0	\circ	\circ	0
Child listed and awaiting heart transplantation				
Where there is lack of professional consensus within the team regarding the plan for care	0			0

*	26. In the following clinica	al scenarios, please selec	ct and rank who you would g	go to for assistance
		Colleague in my unit	Clinical ethics panel	Palliative care team
	Scenario: Child with a single ventricle, post first-stage palliative surgery, who has recurrent cardiac arrests Issue: The family want full resuscitation but you want to limit ongoing resuscitation interventions			
	premature child, now two months corrected age, with chronic lung disease, who has required multiple dilatations for pulmonary vein stenosis affecting all pulmonary veins Issue: The family want to pursue surgical repair but you feel this should not be offered			
	Scenario: Child who has remained in the intensive care unit for six months with CPAP dependence following palliative cardiac surgery Issue: The family want a tracheostomy inserted but you do not feel it should be offered			
	Scenario: Child with trisomy 21, failure to thrive and repaired congenital heart disease Issue: The family want to remove the nasogastric tube and continue with oral feeding only, but you think the child would benefit from ongoing nasogastric feeds or gastrostomy insertion			

volvement in the	ogy care providers' e care of children wi	perspectives an th complex card	d practices towar liac conditions	ds palliative care
	mments regarding pall	liative care involve	ement in children wi	th complex cardiac
conditions				
hank vou f	or your partici	pation.		
your	or your parties.	patroni		