Palliative care for children with complex cardiac conditions: survey results

Raw data

Q13. Do you think there are barriers to discussing goals of care?

	Yes	No
Palliative Care Provider (PCP)	58/78 (74.4%)	20/78 (25.6%)
Cardiac Care Provider (CCP)	73/89 (82%)	16/89 (18%)

- Q15. To what extent do you agree or disagree with the following?
 - a) Palliative care is primarily about providing care at the end of life

	Strongly disagree	Disagree	Agree	Strongly agree
PCP	30/72 (41.7%)	37/72 (51.4%)	4/72 (5.6%)	1/72 (1.4%)
ССР	18/75 (24%)	43/75 (57.3%)	14/75 (18.7%)	0

b) There is no role for palliative care involvement unless the child is expected to die within weeks

	Strongly	Disagree	Agree	Strongly agree
	disagree			
PCP	61/72 (84.7%)	10/72 (13.9%)	0	1/72 (1.4%)
ССР	43/75 (57.3%)	32/75 (42.7%)	0	0

c) Palliative care referral would be acceptable to the parents of most of the children with complex cardiac conditions.

	Strongly disagree	Disagree	Agree	Strongly agree
PCP	0	21/72 (29.2%)	42/72 (58.3%)	9/72 (12.5%)
ССР	7/75 (9.3%)	40/75 (53.3%)	22/75 (29.3%)	6/75 (8%)

d) Parents' hope will be undermined if the option for planning care and treatment in anticipation of a child's potential poor outcome is provided too early

	Strongly disagree	Disagree	Agree	Strongly agree
PCP	28/72 (38.9%)	41/72 (56.9%)	3/72 (4.2%)	0
ССР	14/75 (18.7%)	41/75 (54.7%)	19/75 (25.3%)	1/75 (1.3%)

e) When a diagnosis with a likely poor outcome is made, parents are routinely referred to palliative care before management for the child has been agreed

	Strongly disagree	Disagree	Agree	Strongly agree
PCP	21/72 (29.2%)	44/72 (61.1%)	5/72 (6.9%)	2/72 (2.8%)
ССР	11/75 (14.5%)	47/75 (62.7%)	15/75 (20%)	2/75 (2.7%)

f) When there are conflicting disease specific professional views on the approach to management for a child, a referral to palliative care can be helpful

	Strongly disagree	Disagree	Agree	Strongly agree
PCP	1/72 (1.4%)	3/72 (4.2%)	35/72 (48.6%)	33/72 (45.8%)
ССР	2/75 (2.7%)	4/75 (5.3%)	56/75 (74.7%)	13/75 (17.3%)

g) Young people are capable of playing a role in decision making

	Strongly disagree	Disagree	Agree	Strongly agree
PCP	1/72 (1.4%)	0	18/72 (25%)	53/72 (73.6%)
ССР	0	2/75 (2.7%)	36/75 (48%)	37/75 (49.3%)

h) A palliative care team can assist in symptom management for a child with a complex cardiac condition.

	Strongly disagree	Disagree	Agree	Strongly agree
PCP	1/72 (1.4%)	0	10/72 (13.9%)	61/72 (84.7%)
ССР	1/75 (1.3%)	1/75 (1.3%)	32/75 (42.7%)	41/75 (54.7%)

Q16. In general, how confident do you feel with the following clinical activities?

a) Discussing GoC with parents

	Very confident	Confident	Not confident	Not at all confident
PCP	36/72 (50%)	35/72 (48.6%)	1/72 (1.4%)	0
ССР	23/75 (30.7%)	39/75 (52%)	12/75 (16%)	1/75 (1.5%)

b) Discussing resuscitation status with parents

	Very confident	Confident	Not confident	Not at all confident
PCP	37/72 (51.4%)	31/72 (43.1%)	3/72 (4.2%)	1/72 (1.4%)
ССР	16/75 (21.3%)	32/75 (42.7%)	22/75 (29.3%)	5/75 (6.7%)

c) Discussing concerns about death and dying with parents

	Very confident	Confident	Not confident	Not at all confident
PCP	42/72 (58.3%)	29/72 (40.3%)	1/72 (1.4%)	0
ССР	16/75 (21.3%)	43/75 (57.3%)	13/75 (17.3%)	3/75 (4%)

d) Caring for a child who is deteriorating over hours to days with no realistic chance of survival

	Very confident	Confident	Not confident	Not at all
				confident
PCP	42/72 (58.3%)	26/72 (36.1%)	3/72 (4.2%)	1/72 (1.4%)
ССР	25/75 (33.3%)	41/75 (54.7%)	8/75 (10.7%)	1/75 (1.3%)

e) Prognosticating life expectancy for a child with a complex cardiac condition

	Very confident	Confident	Not confident	Not at all confident
PCP	2/72 (2.8%)	23/72 (31.9%)	34/72 (47.2%)	13/72 (18.1%)
ССР	2/75 (2.7%)	17/75 (22.7%)	40/75 (53.3%)	16/75 (21.3%)

f) Discussing the option of dying at home, in the hospice, or at hospital

	Very confident	Confident	Not confident	Not at all confident
PCP	52/72 (72.2%)	18/72 (25%)	2/72 (2.8%)	0
ССР	14/75 (18.7%)	38/75 (50.7%)	20/75 (26.7%)	3/75 (4%)

g) Offering advice in the care of a child with a complex cardiac condition

	Very confident	Confident	Not confident	Not at all confident
PCP	15/72 (20.8%)	41/72 (56.9%)	12/72 (16.7%)	4/72 (5.6%)
ССР				

Referring to PCT

	Very confident	Confident	Not confident	Not at all confident
PCP				
ССР	29/75 (38.7%)	36/75 (48%)	7/75 (9.3%)	3/75 (4%)

h) Providing care to a child with a complex cardiac condition during the 'end of life care period'

Very confident	Confident	Not confident	Not at all
			confident

PCP	35/72 (48.6%)	33/72 (45.8%)	3/72 (4.2%)	1/72 (1.4%)
ССР	28/75 (37.3%)	42/75 (56%)	3/75 (4%)	2/75 (2.7%)

Q17. Please select if you are confident discussing the following with a young person:

a) Aged 12 years

GOC

	Yes	No
PCP	64/69	5/69
ССР	52/57	5/57

Resus

	Yes	No
PCP	42/68	27/69
ССР	18/57	39/57

Death and dying

	Yes	No
PCP	57/69	12/69
ССР	33/57	24/57

b) Aged 16 years

GOC

	Yes	No
PCP	68/71	3/71
ССР	61/63	2/63

Resus

	Yes	No		
PCP	57/71	14/71		
ССР	36/63	27/63		

Death and dying

	Yes	No
PCP	63/71	8/71
ССР	45/63	18/63

Q18. 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.

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	Strongly disagree	Disagree	Agree	Strongly agree
PCP	3/72 (4.2%)	0	12/72 (16.7%)	57/72 (79.2%)
ССР	1/74 (1.4%)	0	15/74 (20.3%)	58/74 (78.4%)

Q19. In the last year, how often have you received referrals from clinicians for children with complex cardiac conditions (PC) or how often have you made referrals to the PC team (cardiologists)?

	Never	Rarely	Occasionally	Regularly
PCP	5/72 (6.9%)	11/72 (15.3%)	39/72 (54.2%)	17/72 (23.6%)
ССР	9/74 (12.2%)	20/74 (27%)	27/74 (36.5%)	18/75 (24.3%)

Q20. Why have children with complex cardiac conditions been referred to you?

PCP		ССР		
PPoD Discussions	51/72 (70.8%)	PPoD Discussions	73/74 (98.6%)	
Symptom management	45/72 (62.5%)	Parental care planning	70/74 (94.6%)	
Parental care planning	42/72 (58.3%)	Symptom management	67/74 (90.5%)	
Discuss death/dying issues	37/72 (51.4%)	Discuss death/dying issues	64/74 (86.5%)	
Parental decision making	33/72 (45.8%)	Parental decision making	58/74 (78.4%)	
Outcome discussions	32/72 (44.4%)	Outcome discussions	54/74 (73%)	
DNAR discussions	32/72 (44.4%)	Interprofessional conflict	47/74 (63.5%)	

Q21. In general, do you feel that children were referred to palliative care

	At the appropriate time	Too early	Too late	N/A
PCP	30/72 (41.7%)	0	42/72 (58.3%)	0
ССР	21/73 (28.8%)	0	46/73 (63%)	6/73 (8.2%)

Q23. Do you think children in the following clinical scenarios should be referred to palliative care?

a) Child where there are no further surgical management options possible

	Definitely	Probably	Occasionally	Definitely not
PCP	49/63 (77.8%)	14/63 (22.2%)	0	0
ССР	53/66 (80.3%)	11/66 (16.7%)	2/66 (3%)	0

b) Unborn child with an antenatal diagnosis of a single ventricle

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		Definitely	Probably	Occasionally	Definitely not	

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PCP	42/63 (66.7%)	16/63 (25.4%)	4/63 (6.3%)	1/63 (1.6%)
ССР	33/67 (49.3%)	22/67 (32.8%)	11/67 (16.4%)	1/67 (1.5%)

c) Child with a VAD insitu

	Definitely	Probably	Occasionally	Definitely not
PCP	19/63 (30.2%)	31/63 (49.2%)	10/63 (15.9%)	3/63 (4.8%)
ССР	33/67 (49.3%)	19/67 (28.4%)	14/67 (20.9%)	1/67 (1.5%)

d) Child with a complex cardiac disorder and a major genetic condition

	Definitely	Probably	Occasionally	Definitely not
PCP	42/63 (66.7%)	20/63 (31.7%)	1/63 (1.6%)	0
ССР	32/67 (47.8%)	22/67 (32.8%)	13/67 (19.4%)	0

e) Child with symptomatic heart failure from myocardial dysfunction

	Definitely	Probably	Occasionally	Definitely not
PCP	33/63 (52.4%)	20/63 (31.7%)	10/63 (15.9%)	0
ССР	24/67 (35.8%)	27/67 (40.3%)	16/67 (23.9%)	0

f) Child with a complex cardiac condition who requires ongoing ICU admission 30 days after their initial procedure

	Definitely	Probably	Occasionally	Definitely not
PCP	23/63 (36.5%)	28/63 (44.4%)	11/63 (17.5%)	1/63 (1.6%)
ССР	28/67 (41.8%)	20/67 (29.9%)	19/67 (28.4%)	0

g) Child requiring ECMO

	Definitely	Probably	Occasionally	Definitely not
PCP	16/63 (25.4%)	22/63 (34.9%)	22/63 (34.9%)	3/63 (4.8%)
ССР	21/67 (31.3%)	13/67 (19.4%)	31/67 (46.3%)	2/67 (3%)

h) Child being planned for ICD

	Definitely	Probably	Occasionally	Definitely not
PCP	3/63 (4.8%)	14/63 (22.2%)	39/63 (61.9%)	7/63 (11.1%)
ССР	6/67 (9%)	16/67 (23.9%)	36/67 (53.7%)	9/67 (13.4%)

i) Child being planned for VAD

	Definitely	Probably	Occasionally	Definitely not
PCP	9/63 (14.3%)	28/24 (44.4%)	24/63 (38.1%)	2/63 (3.2%)
ССР	22/67 (32.8%)	25/67 (37.3%)	19/37 (28.4%)	1/67 (1.5%)

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j) Newborn child with a single ventricle preceding with surgery

	Definitely	Probably	Occasionally	Definitely not
PCP	18/63 (28.6%)	30/63 (47.6%)	12/63 (19%)	3/63 (4.8%)
ССР	29/67 (43.3%)	16/67 (23.9%)	19/67 (28.4%)	3/67 (4.5%)

k) Child listed and awaiting heart transplant

	Definitely	Probably	Occasionally	Definitely not
PCP	38/63 (60.3%)	20/63 (31.7%)	5/63 (7.9%)	0
ССР	38/67 (56.7%)	17/67 (25.4%)	12/67 (17.9%)	0

I) Where there is a lack of professional consensus within the treating team regarding the plan of care

	Definitely	Probably	Occasionally	Definitely not
PCP	28/63 (44.4%)	25/63 (39.7%)	7/63 (11.1%)	3/63 (4.8%)
ССР	23/67 (34.3%)	24/67 (35.8%)	16/67 (23.9%)	4/67 (6%)

Q24. In the following clinical scenarios, please select and rank the most useful sources of additional support for the treating clinician

a) Resuscitation

COLLEAGUE

	1st	2nd	3rd	N/A
PCP	34/63 (54%)	17/63 (27%)	11/63 (17.5%)	1/63 (1.6%)
ССР	62/67 (92.5%)	1/67 (1.5%)	2/67 (3%)	2/67 (3%)

CLINICAL ETHICS PANEL

	1st	2nd	3rd	N/A
PCP	10/63 (15.9%)	14/63 (22.2%)	37/63 (58.7%)	2/63 (3.2%)
ССР	2/67 (3%)	10/67 (14.9%)	47/67 (70.1%)	8/67 (11.9%)

PCT

	1st	2nd	3rd	N/A
PCP	22/63 (34.9%)	31/63 (49.2%)	10/63 (15.9%)	0
ССР	5/67 (7.5%)	51/67 (76.1%)	4/67 (6%)	7/67 (10.4%)

b) Surgery

COLLEAGUE

	1st	2nd	3rd	N/A
PCP	44/63 (69.8%)	7/63 (11.1%)	12/63 (19%)	0
ССР	61/67 (91%)	2/67 (3%)	2/67 (3%)	2/67 (3%)

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CLINICAL ETHICS PANEL

	1st	2nd	3rd	N/A
PCP	9/63 (14.3%)	12/63 (19%)	40/63 (63.5%)	2/63 (3.2%)
ССР	3/67 (4.5%)	12/67 (17.9%)	44/67 (65.7%)	8/67 (11.9%)

PCT

	1st	2nd	3rd	N/A
PCP	14/63 (22.2%)	40/63 (63.5%)	8/63 (12.7%)	1/63 (1.6%)
ССР	7/67 (10.4%)	46/67 (68.7%)	9/67 (13.4%)	5/67 (7.5%)

c) Tracheostomy

COLLEAGUE

	1st	2nd	3rd	N/A
PCP	36/63 (57.1%)	11/63 (17.5%)	16/63 (25.4%)	0
ССР	55/67 (82.1%)	9/67 (13.4%)	1/67 (1.5%)	2/67 (3%)

CLINICAL ETHICS PANEL

	1st	2nd	3rd	N/A
PCP	10/63 (15.9%)	19/63 (30.2%)	28/63 (44.4%)	6/63 (9.5%)
ССР	6/67 (9%)	8/67 (11.9%)	45/67 (67.2%)	8/67 (11.9%)

PCT

	1st	2nd	3rd	N/A
PCP	19/63 (30.2%)	33/63 (52.4%)	10/63 (15.9%)	1/63 (1.6%)
ССР	9/67 (13.4%)	43/67 (64.2%)	7/67 (10.4%)	8/37 (11.9%)

d) Nutrition/Hydration challenge

COLLEAGUE

	1st	2nd	3rd	N/A
PCP	36/63 (57.1%)	16/63 (25.4%)	10/63 (15.9%)	1/63 (1.6%)
ССР	61/67 (91%)	3/67 (4.5%)	0	3/67 (4.5%)

CLINICAL ETHICS PANEL

	1st	2nd	3rd	N/A
PCP	12/63 (19%)	22/63 (34.9%)	25/63 (39.7%)	4/63 (6.3%)
ССР	3/37 (4.5%)	18/67 (26.9%)	25/67 (37.3%)	21/67 (31.3%)

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PCT

	1st	2nd	3rd	N/A
PCP	18/63 (28.6%)	23/63 (36.5%)	16/63 (25.4%)	6/63 (9.5%)
ССР	5/67 (7.5%)	28/67 (41.8%)	11/67 (16.4%)	23/67 (34.3%)