

PROCEDURES FOR CONGENITAL HEART DISEASE

Annual Report

2001 - 2002

Society of Cardiothoracic Surgeons
of Great Britain and Ireland



British Paediatric
Cardiac Association

Data collated and reported by the Central Cardiac Audit Database

www.ccad.org.uk

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National Clinical Audit Support Programme

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2	Surgical Mortality - Benchmark Procedures
3	Surgical Mortality - All Individual Procedures
4	Surgical Mortality - Total by Hospital
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Summary - Cardiac Surgery

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	All Ages				Neonate (1-30 days)				Infant (31-365 days)				Child (1.0-16.0 years)				Adult (16 years +)			
	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
1. Bypass <i>Invalid age: 16</i>	2,831	2,374	112	345	370	297	30	43	819	696	29	94	1,246	1,076	33	137	380	299	20	61
	30 day mortality: 4.5% [3.5%-5.7%]				30 day mortality: 9.2% [5.8%-14.1%]				30 day mortality: 4.0% [2.5%-6.3%]				30 day mortality: 3.0% [1.9%-4.6%]				30 day mortality: 6.3% [3.6%-10.7%]			
2. Non-bypass <i>Invalid age: 10</i>	976	838	26	112	390	326	16	48	374	324	7	43	175	165	1	9	27	19	1	7
	30 day mortality: 3.0% [1.8%-4.9%]				30 day mortality: 4.7% [2.5%-8.6%]				30 day mortality: 2.1% [0.8%-5.3%]				30 day mortality: 0.6% [0.1%-4.9%]				30 day mortality: 5.0% [0.6%-31.8%]			
All surgery: <i>Invalid age: 26</i>	3,807	3,212	138	457	760	623	46	91	1,193	1,020	36	137	1,421	1,241	34	146	407	318	21	68
	30 day mortality: 4.1% [3.3%-5.1%]				30 day mortality: 6.9% [4.8%-9.8%]				30 day mortality: 3.4% [2.2%-5.2%]				30 day mortality: 2.7% [1.7%-4.1%]				30 day mortality: 6.2% [3.6%-10.5%]			

"Deaths" are known mortalities no later than 30 days after operation, whether pre or post discharge.

Period covered: 01/04/2001 to 31/03/2002

Mortality reported at 30 DAYS POST-PROCEDURE.

Patient mortality has been tracked via the Office of National Statistics.

Hospital

ACH. Alder Hey Hospital
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BCH. Birmingham Childrens Hospital
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BCH. Birmingham Childrens Hospital
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BRC. Bristol Children's Hospital
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Surgical Procedures

5
121
126
65
30
193
147
107
35
104
77
46

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Cardiac Surgical Benchmark Procedures From: 01/04/2001 to 31/03/2002

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	All Ages				Neonate (1-30 days)				Infant (31-365 days)				Child (1.0-16.0 years)				Adult (16 years+)				
	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	
Arterial switch <i>Invalid age: 3</i>	137	112	4	21	119	99	4	16	13	8	0	5	2	2	0	0	0	0	0	0	0
	30 day mortality: 3.4% [1.0%-10.9%]				30 day mortality: 3.9% [1.2%-12.2%]				30 day mortality: 0.0% [0.0%-45.3%]				30 day mortality: 0.0% [0.0%-76.8%]				30 day mortality:				
ASD closure (surgical) <i>Invalid age: 0</i>	446	426	0	20	0	0	0	0	16	14	0	2	336	322	0	14	94	90	0	4	
	30 day mortality: 0.0% [0.0%-1.5%]				30 day mortality:				30 day mortality: 0.0% [0.0%-32.2%]				30 day mortality: 0.0% [0.0%-2.0%]				30 day mortality: 0.0% [0.0%-6.9%]				
AVSD (complete) repair <i>Invalid age: 2</i>	108	94	2	12	0	0	0	0	94	82	2	10	12	11	0	1	0	0	0	0	0
	30 day mortality: 2.1% [0.4%-10.0%]				30 day mortality:				30 day mortality: 2.4% [0.5%-11.3%]				30 day mortality: 0.0% [0.0%-37.6%]				30 day mortality:				
Coarct repair <i>Invalid age: 4</i>	486	446	4	36	220	196	4	20	146	132	0	14	96	94	0	2	20	20	0	0	0
	30 day mortality: 0.9% [0.3%-2.9%]				30 day mortality: 2.0% [0.6%-6.5%]				30 day mortality: 0.0% [0.0%-4.8%]				30 day mortality: 0.0% [0.0%-6.6%]				30 day mortality: 0.0% [0.0%-24.9%]				
Tetralogy repair <i>Invalid age: 0</i>	161	139	6	16	2	1	1	0	76	63	3	10	80	72	2	6	3	3	0	0	0
	30 day mortality: 4.1% [1.5%-10.8%]				30 day mortality: 50.0% [6.2%-93.8%]				30 day mortality: 4.5% [1.2%-16.2%]				30 day mortality: 2.7% [0.5%-12.7%]				30 day mortality: 0.0% [0.0%-68.9%]				
VSD closure (surgical) <i>Invalid age: 0</i>	564	488	4	72	18	14	2	2	398	346	2	50	138	120	0	18	10	8	0	2	2
	30 day mortality: 0.8% [0.2%-2.7%]				30 day mortality: 12.5% [2.5%-44.5%]				30 day mortality: 0.6% [0.1%-2.9%]				30 day mortality: 0.0% [0.0%-5.2%]				30 day mortality: 0.0% [0.0%-45.3%]				

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	All Ages				Neonate (1-30 days)				Infant (31-365 days)				Child (1.0-16.0 years)				Adult (16 years+)			
	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
12.01.01 ASD closure (unspecified)	Predicted risk: 1. Low																			
<i>Invalid age: 0</i>	238	227	0	11	0	0	0		14	12	0	2	172	165	0	7	52	50	0	2
	30 day mortality: 0.0% [0.0%-2.8%]				30 day mortality:				30 day mortality: 0.0% [0.0%-35.6%]				30 day mortality: 0.0% [0.0%-3.9%]				30 day mortality: 0.0% [0.0%-11.7%]			
12.01.10 Sinus venosus ASD closure	Predicted risk: 1. Low																			
<i>Invalid age: 0</i>	19	19	0	0	0	0	0		0	0	0		11	11	0	0	8	8	0	0
	30 day mortality: 0.0% [0.0%-25.9%]				30 day mortality:				30 day mortality:				30 day mortality: 0.0% [0.0%-37.6%]				30 day mortality: 0.0% [0.0%-45.3%]			
12.24.20 Patent arterial duct (PDA) closure - open	Predicted risk: 1. Low																			
<i>Invalid age: 3</i>	269	219	11	39	106	82	6	18	144	121	3	20	16	15	1	0	0	0	0	
	30 day mortality: 4.8% [2.3%-9.8%]				30 day mortality: 6.8% [2.5%-17.2%]				30 day mortality: 2.4% [0.6%-9.1%]				30 day mortality: 6.3% [0.7%-37.4%]				30 day mortality:			
12.32.40 Pericardiocentesis	Predicted risk: 1. Low																			
<i>Invalid age: 0</i>	25	22	0	3	6	5	0	1	5	4	0	1	14	13	0	1	0	0	0	
	30 day mortality: 0.0% [0.0%-23.2%]				30 day mortality: 0.0% [0.0%-57.0%]				30 day mortality: 0.0% [0.0%-62.4%]				30 day mortality: 0.0% [0.0%-33.8%]				30 day mortality:			

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	All Ages				Neonate (1-30 days)				Infant (31-365 days)				Child (1.0-16.0 years)				Adult (16 years+)			
	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
12.34.63 Pacemaker system placement: permanent epicardial	Predicted risk: 1. Low																			
<i>Invalid age: 0</i>	41	34	1	6	8	7	1	0	5	4	0	1	22	19	0	3	6	4	0	2
	30 day mortality: 2.9% [0.3%-20.4%]				30 day mortality: 12.5% [1.5%-57.5%]				30 day mortality: 0.0% [0.0%-62.4%]				30 day mortality: 0.0% [0.0%-25.9%]				30 day mortality: 0.0% [0.0%-62.4%]			
12.34.70 Pacemaker wire procedure (unspecified)	Predicted risk: 1. Low																			
<i>Invalid age: 0</i>	7	6	0	1	1	1	0	0	0	0	0	0	3	3	0	0	3	2	0	1
	30 day mortality: 0.0% [0.0%-52.5%]				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality:				30 day mortality: 0.0% [0.0%-68.9%]				30 day mortality: 0.0% [0.0%-76.8%]			
12.35.13 Pulse generator box replacement	Predicted risk: 1. Low																			
<i>Invalid age: 0</i>	9	9	0	0	0	0	0	0	0	0	0	0	8	8	0	0	1	1	0	0
	30 day mortality: 0.0% [0.0%-42.4%]				30 day mortality:				30 day mortality:				30 day mortality: 0.0% [0.0%-45.3%]				30 day mortality: 0.0% [0.0%-86.9%]			
12.35.15 Isolated removal of implanted pulse generator	Predicted risk: 1. Low																			
<i>Invalid age: 0</i>	3	3	0	0	0	0	0	0	1	1	0	0	2	2	0	0	0	0	0	0
	30 day mortality: 0.0% [0.0%-68.9%]				30 day mortality:				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality: 0.0% [0.0%-76.8%]				30 day mortality:			

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	All Ages				Neonate (1-30 days)				Infant (31-365 days)				Child (1.0-16.0 years)				Adult (16 years+)			
	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
12.00.02 Partially APVC repair (unspecified)	Predicted risk: 2. Low-Moderate																			
<i>Invalid age: 0</i>	16	15	0	1	0	0	0		0	0	0		10	9	0	1	6	6	0	0
	30 day mortality: 0.0% [0.0%-30.7%]				30 day mortality:				30 day mortality:				30 day mortality: 0.0% [0.0%-42.4%]				30 day mortality: 0.0% [0.0%-52.5%]			
12.01.22 Atrial septation procedure	Predicted risk: 2. Low-Moderate																			
<i>Invalid age: 0</i>	1	1	0	0	0	0	0		1	1	0	0	0	0	0		0	0	0	
	30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality:				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality:				30 day mortality:			
12.01.42 Atrial septectomy - closed (Blalock Hanlon)	Predicted risk: 2. Low-Moderate																			
<i>Invalid age: 0</i>	22	13	5	4	4	1	0	3	9	5	4	0	5	5	0	0	4	2	1	1
	30 day mortality: 27.8% [9.8%-57.8%]				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality: 44.4% [14.3%-79.3%]				30 day mortality: 0.0% [0.0%-57.0%]				30 day mortality: 33.3% [4.0%-85.6%]			
12.04.01 AVSD: partial (primum ASD) repair	Predicted risk: 2. Low-Moderate																			
<i>Invalid age: 0</i>	66	56	2	8	0	0	0		9	5	2	2	45	41	0	4	12	10	0	2
	30 day mortality: 3.4% [0.7%-15.8%]				30 day mortality:				30 day mortality: 28.6% [5.8%-72.2%]				30 day mortality: 0.0% [0.0%-13.9%]				30 day mortality: 0.0% [0.0%-39.9%]			

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	All Ages				Neonate (1-30 days)				Infant (31-365 days)				Child (1.0-16.0 years)				Adult (16 years+)			
	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
12.08.01 VSD closure (unspecified)	Predicted risk: 2. Low-Moderate																			
<i>Invalid age: 0</i>	340	296	4	40	17	14	2	1	226	198	1	27	86	74	1	11	11	10	0	1
	30 day mortality: 1.3% [0.4%-4.4%]				30 day mortality: 12.5% [2.5%-44.5%]				30 day mortality: 0.5% [0.1%-4.1%]				30 day mortality: 1.3% [0.2%-10.4%]				30 day mortality: 0.0% [0.0%-39.9%]			
12.12.01 Aortopulmonary window closure (unspecified)	Predicted risk: 2. Low-Moderate																			
<i>Invalid age: 0</i>	3	3	0	0	0	0	0		2	2	0	0	1	1	0	0	0	0	0	
	30 day mortality: 0.0% [0.0%-68.9%]				30 day mortality:				30 day mortality: 0.0% [0.0%-76.8%]				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality:			
12.13.02 Pulmonary valvotomy - open	Predicted risk: 2. Low-Moderate																			
<i>Invalid age: 0</i>	11	10	0	1	3	3	0	0	0	0	0		8	7	0	1	0	0	0	
	30 day mortality: 0.0% [0.0%-39.9%]				30 day mortality: 0.0% [0.0%-68.9%]				30 day mortality:				30 day mortality: 0.0% [0.0%-48.7%]				30 day mortality:			
12.14.01 Pulmonary trunk arterioplasty	Predicted risk: 2. Low-Moderate																			
<i>Invalid age: 0</i>	5	4	0	1	0	0	0		2	2	0	0	3	2	0	1	0	0	0	
	30 day mortality: 0.0% [0.0%-62.4%]				30 day mortality:				30 day mortality: 0.0% [0.0%-76.8%]				30 day mortality: 0.0% [0.0%-76.8%]				30 day mortality:			

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	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
12.14.02 Pulmonary trunk band (PA band)	Predicted risk: 2. Low-Moderate																			
<i>Invalid age: 1</i>	103	88	2	13	34	26	1	7	61	55	1	5	7	6	0	1	0	0	0	
	30 day mortality: 2.2% [0.4%-10.6%]				30 day mortality: 3.7% [0.4%-25.2%]				30 day mortality: 1.8% [0.2%-13.6%]				30 day mortality: 0.0% [0.0%-52.5%]				30 day mortality:			
12.14.03 Pulmonary trunk band removal (de-band)	Predicted risk: 2. Low-Moderate																			
<i>Invalid age: 0</i>	11	9	1	1	2	1	0	1	2	2	0	0	6	5	1	0	1	1	0	0
	30 day mortality: 10.0% [1.2%-50.7%]				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality: 0.0% [0.0%-76.8%]				30 day mortality: 16.7% [2.0%-66.4%]				30 day mortality: 0.0% [0.0%-86.9%]			
12.14.20 Pulmonary arterioplasty / reconstruction (unspecified)	Predicted risk: 2. Low-Moderate																			
<i>Invalid age: 0</i>	37	29	1	7	2	1	0	1	6	4	1	1	27	22	0	5	2	2	0	0
	30 day mortality: 3.3% [0.4%-23.2%]				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality: 20.0% [2.4%-71.8%]				30 day mortality: 0.0% [0.0%-23.2%]				30 day mortality: 0.0% [0.0%-76.8%]			
12.17.11 Vascular ring procedure (unspecified)	Predicted risk: 2. Low-Moderate																			
<i>Invalid age: 0</i>	17	15	0	2	4	4	0	0	8	7	0	1	3	3	0	0	2	1	0	1
	30 day mortality: 0.0% [0.0%-30.7%]				30 day mortality: 0.0% [0.0%-62.4%]				30 day mortality: 0.0% [0.0%-48.7%]				30 day mortality: 0.0% [0.0%-68.9%]				30 day mortality: 0.0% [0.0%-86.9%]			

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	All Ages				Neonate (1-30 days)				Infant (31-365 days)				Child (1.0-16.0 years)				Adult (16 years+)			
	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
12.18.02 Repair of aortic coarct/hypoplasia by patch aortoplasty	Predicted risk: 2. Low-Moderate																			
<i>Invalid age: 0</i>	21	20	1	0	0	0	0		4	4	0	0	16	15	1	0	1	1	0	0
	30 day mortality: 4.8% [0.6%-30.7%]				30 day mortality:				30 day mortality: 0.0% [0.0%-62.4%]				30 day mortality: 6.3% [0.7%-37.4%]				30 day mortality: 0.0% [0.0%-86.9%]			
12.18.03 Repair of aortic coarct/hypoplasia by subclavian flap aortoplasty	Predicted risk: 2. Low-Moderate																			
<i>Invalid age: 1</i>	64	61	0	3	38	35	0	3	18	18	0	0	7	7	0	0	0	0	0	
	30 day mortality: 0.0% [0.0%-9.8%]				30 day mortality: 0.0% [0.0%-15.9%]				30 day mortality: 0.0% [0.0%-26.9%]				30 day mortality: 0.0% [0.0%-48.7%]				30 day mortality:			
12.18.10 Repair of aortic coarct/hypoplasia by extended resection & end/end anast	Predicted risk: 2. Low-Moderate																			
<i>Invalid age: 0</i>	162	143	1	18	74	62	1	11	54	48	0	6	27	26	0	1	7	7	0	0
	30 day mortality: 0.7% [0.1%-5.7%]				30 day mortality: 1.6% [0.2%-12.2%]				30 day mortality: 0.0% [0.0%-12.1%]				30 day mortality: 0.0% [0.0%-20.3%]				30 day mortality: 0.0% [0.0%-48.7%]			
12.31.31 Closure of systemic to PA shunt (unspecified)	Predicted risk: 2. Low-Moderate																			
<i>Invalid age: 0</i>	6	6	0	0	1	1	0	0	1	1	0	0	4	4	0	0	0	0	0	
	30 day mortality: 0.0% [0.0%-52.5%]				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality: 0.0% [0.0%-62.4%]				30 day mortality:			

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	All Ages				Neonate (1-30 days)				Infant (31-365 days)				Child (1.0-16.0 years)				Adult (16 years+)				Predicted risk:
	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	
12.32.09 Pericardiectomy																					2. Low-Moderate
<i>Invalid age: 0</i>	2	2	0	0	0	0	0		0	0	0		2	2	0	0	0	0	0		
	30 day mortality: 0.0% [0.0%-76.8%]				30 day mortality:				30 day mortality:				30 day mortality: 0.0% [0.0%-76.8%]				30 day mortality:				
12.32.70 Plication of hemidiaphragm (unspecified)																					2. Low-Moderate
<i>Invalid age: 0</i>	10	9	0	1	0	0	0		6	6	0	0	4	3	0	1	0	0	0		
	30 day mortality: 0.0% [0.0%-42.4%]				30 day mortality:				30 day mortality: 0.0% [0.0%-52.5%]				30 day mortality: 0.0% [0.0%-68.9%]				30 day mortality:				
12.65.13 Pectus carinatum repair																					2. Low-Moderate
<i>Invalid age: 0</i>	2	2	0	0	0	0	0		0	0	0		1	1	0	0	1	1	0	0	
	30 day mortality: 0.0% [0.0%-76.8%]				30 day mortality:				30 day mortality:				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality: 0.0% [0.0%-86.9%]				
12.00.81 Anomalous systemic venous connection repair																					3. Moderate
<i>Invalid age: 0</i>	1	1	0	0	0	0	0		1	1	0	0	0	0	0		0	0	0		
	30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality:				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality:				30 day mortality:				

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	All Ages				Neonate (1-30 days)				Infant (31-365 days)				Child (1.0-16.0 years)				Adult (16 years+)				
	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	
12.01.31 Cor triatriatum (divided LA) repair	Predicted risk: 3. Moderate																				
<i>Invalid age: 0</i>	6	5	0	1	0	0	0	0	0	0	6	5	0	1	0	0	0				
	30 day mortality: 0.0% [0.0%-57.0%]				30 day mortality:				30 day mortality:				30 day mortality: 0.0% [0.0%-57.0%]				30 day mortality:				
12.02.02 Tricuspid leaflet procedure (valvoplasty)	Predicted risk: 3. Moderate																				
<i>Invalid age: 0</i>	17	14	1	2	1	1	0	0	5	4	1	0	9	7	0	2	2	2	0	0	
	30 day mortality: 6.7% [0.8%-39.1%]				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality: 20.0% [2.4%-71.8%]				30 day mortality: 0.0% [0.0%-48.7%]				30 day mortality: 0.0% [0.0%-76.8%]				
12.02.09 Repair of Ebstein's malformation of tricuspid valve	Predicted risk: 3. Moderate																				
<i>Invalid age: 0</i>	2	2	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0				
	30 day mortality: 0.0% [0.0%-76.8%]				30 day mortality:				30 day mortality:				30 day mortality: 0.0% [0.0%-76.8%]				30 day mortality:				
12.02.11 Tricuspid valvar replacement (unspecified)	Predicted risk: 3. Moderate																				
<i>Invalid age: 0</i>	8	4	3	1	0	0	0	0	0	0	3	2	1	0	5	2	2	1			
	30 day mortality: 42.9% [11.6%-81.0]				30 day mortality:				30 day mortality:				30 day mortality: 33.3% [4.0%-85.6%]				30 day mortality: 50.0% [10.5%-89.5%]				

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	All Ages				Neonate (1-30 days)				Infant (31-365 days)				Child (1.0-16.0 years)				Adult (16 years+)			
	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
12.03.11 Mitral valvar replacement (unspecified)	Predicted risk: 3. Moderate																			
<i>Invalid age: 0</i>	57	44	5	8	0	0	0		11	9	0	2	31	21	4	6	15	14	1	0
	30 day mortality: 10.2% [3.5%-26.4%]				30 day mortality:				30 day mortality: 0.0% [0.0%-42.4%]				30 day mortality: 16.0% [4.9%-41.4%]				30 day mortality: 6.7% [0.8%-39.1%]			
12.06.01 RV outflow tract muscle resection / division	Predicted risk: 3. Moderate																			
<i>Invalid age: 0</i>	58	53	1	4	2	2	0	0	17	15	1	1	36	34	0	2	3	2	0	1
	30 day mortality: 1.9% [0.2%-14.0%]				30 day mortality: 0.0% [0.0%-76.8%]				30 day mortality: 6.3% [0.7%-37.4%]				30 day mortality: 0.0% [0.0%-16.3%]				30 day mortality: 0.0% [0.0%-76.8%]			
12.06.04 RV outflow tract dilation patch placement (PV intact)	Predicted risk: 3. Moderate																			
<i>Invalid age: 0</i>	29	23	1	5	2	2	0	0	8	4	1	3	18	16	0	2	1	1	0	0
	30 day mortality: 4.2% [0.5%-27.7%]				30 day mortality: 0.0% [0.0%-76.8%]				30 day mortality: 20.0% [2.4%-71.8%]				30 day mortality: 0.0% [0.0%-29.3%]				30 day mortality: 0.0% [0.0%-86.9%]			
12.07.13 LV outflow tract obstruction relief	Predicted risk: 3. Moderate																			
<i>Invalid age: 0</i>	93	83	0	10	0	0	0		5	4	0	1	76	71	0	5	12	8	0	4
	30 day mortality: 0.0% [0.0%-7.4%]				30 day mortality:				30 day mortality: 0.0% [0.0%-62.4%]				30 day mortality: 0.0% [0.0%-8.5%]				30 day mortality: 0.0% [0.0%-45.3%]			

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	All Ages				Neonate (1-30 days)				Infant (31-365 days)				Child (1.0-16.0 years)				Adult (16 years+)			
	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
12.13.21 Pulmonary valvar replacement (not conduit)	Predicted risk: 3. Moderate																			
<i>Invalid age: 0</i>	41	35	2	4	0	0	0	1	1	0	0	11	11	0	0	29	23	2	4	
	30 day mortality: 5.4% [1.1%-23.3%]				30 day mortality:				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality: 0.0% [0.0%-37.6%]				30 day mortality: 8.0% [1.6%-32.0%]			
12.16.21 Aortic valvar replacement (unspecified)	Predicted risk: 3. Moderate																			
<i>Invalid age: 0</i>	89	77	0	12	0	0	0	1	1	0	0	25	22	0	3	63	54	0	9	
	30 day mortality: 0.0% [0.0%-7.9%]				30 day mortality:				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality: 0.0% [0.0%-23.2%]				30 day mortality: 0.0% [0.0%-10.9%]			
12.16.40 Supravalvar aortic stenosis repair (unspecified)	Predicted risk: 3. Moderate																			
<i>Invalid age: 0</i>	19	14	2	3	0	0	0	4	3	0	1	15	11	2	2	0	0	0		
	30 day mortality: 12.5% [2.5%-44.5%]				30 day mortality:				30 day mortality: 0.0% [0.0%-68.9%]				30 day mortality: 15.4% [3.1%-51.1%]				30 day mortality:			
12.23.08 Coronary arterial bypass graft (CABG) procedure (unspecified)	Predicted risk: 3. Moderate																			
<i>Invalid age: 0</i>	6	6	0	0	0	0	0	0	0	0	2	2	0	0	4	4	0	0		
	30 day mortality: 0.0% [0.0%-52.5%]				30 day mortality:				30 day mortality:				30 day mortality: 0.0% [0.0%-76.8%]				30 day mortality: 0.0% [0.0%-62.4%]			

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	All Ages				Neonate (1-30 days)				Infant (31-365 days)				Child (1.0-16.0 years)				Adult (16 years+)			
	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
12.25.18 Major aorto-pulmonary collateral artery (MAPCA) ligation	Predicted risk: 3. Moderate																			
<i>Invalid age: 0</i>	4	4	0	0	0	0	0		3	3	0	0	1	1	0	0	0	0	0	
	30 day mortality: 0.0% [0.0%-62.4%]				30 day mortality:				30 day mortality: 0.0% [0.0%-68.9%]				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality:			
12.31.01 Classical R Blalock (RSCA-RPA) anastomosis	Predicted risk: 3. Moderate																			
<i>Invalid age: 0</i>	1	1	0	0	1	1	0	0	0	0	0		0	0	0		0	0	0	
	30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality:				30 day mortality:				30 day mortality:			
12.31.03 Modified R Blalock interposition shunt	Predicted risk: 3. Moderate																			
<i>Invalid age: 0</i>	210	187	6	17	107	98	2	7	78	68	3	7	25	21	1	3	0	0	0	
	30 day mortality: 3.1% [1.1%-8.2%]				30 day mortality: 2.0% [0.4%-9.6%]				30 day mortality: 4.2% [1.1%-15.2%]				30 day mortality: 4.5% [0.5%-29.6%]				30 day mortality:			
12.31.05 Waterston (ascending Ao-RPA) anastomosis	Predicted risk: 3. Moderate																			
<i>Invalid age: 0</i>	27	21	4	2	7	3	2	2	8	8	0	0	9	9	0	0	3	1	2	0
	30 day mortality: 16.0% [4.9%-41.4%]				30 day mortality: 40.0% [8.3%-83.1%]				30 day mortality: 0.0% [0.0%-45.3%]				30 day mortality: 0.0% [0.0%-42.4%]				30 day mortality: 66.7% [14.4%-96.0%]			

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	All Ages				Neonate (1-30 days)				Infant (31-365 days)				Child (1.0-16.0 years)				Adult (16 years+)			
	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
12.31.30 Systemic to pulmonary arterial shunt procedure (unspecified)	Predicted risk: 3. Moderate																			
<i>Invalid age: 0</i>	14	10	2	2	4	3	1	0	3	2	1	0	3	3	0	0	4	2	0	2
	30 day mortality: 16.7% [3.3%-53.7%]				30 day mortality: 25.0% [3.0%-78.2%]				30 day mortality: 33.3% [4.0%-85.6%]				30 day mortality: 0.0% [0.0%-68.9%]				30 day mortality: 0.0% [0.0%-76.8%]			
12.31.44 Bilateral bidirectional superior cavopulmonary (Glenn) anastomoses	Predicted risk: 3. Moderate																			
<i>Invalid age: 0</i>	129	107	4	18	0	0	0		63	55	1	7	63	50	3	10	3	2	0	1
	30 day mortality: 3.6% [1.1%-11.4%]				30 day mortality:				30 day mortality: 1.8% [0.2%-13.6%]				30 day mortality: 5.7% [1.4%-19.7%]				30 day mortality: 0.0% [0.0%-76.8%]			
12.36.01 RV to pulmonary tree conduit construction (unspecified)	Predicted risk: 3. Moderate																			
<i>Invalid age: 0</i>	43	37	2	4	0	0	0		3	3	0	0	28	22	2	4	12	12	0	0
	30 day mortality: 5.1% [1.0%-22.3%]				30 day mortality:				30 day mortality: 0.0% [0.0%-68.9%]				30 day mortality: 8.3% [1.6%-33.1%]				30 day mortality: 0.0% [0.0%-35.6%]			
12.00.00 TAPVC repair (unspecified)	Predicted risk: 4. High																			
<i>Invalid age: 0</i>	66	57	3	6	28	22	3	3	30	28	0	2	6	5	0	1	2	2	0	0
	30 day mortality: 5.0% [1.3%-17.7%]				30 day mortality: 12.0% [3.1%-36.9%]				30 day mortality: 0.0% [0.0%-19.2%]				30 day mortality: 0.0% [0.0%-57.0%]				30 day mortality: 0.0% [0.0%-76.8%]			

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	All Ages				Neonate (1-30 days)				Infant (31-365 days)				Child (1.0-16.0 years)				Adult (16 years+)			
	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
12.01.32 Supra-mitral valvar LA-ring excision	Predicted risk: 4. High																			
<i>Invalid age: 0</i>	5	5	0	0	0	0	0		2	2	0	0	3	3	0	0	0	0	0	
	30 day mortality: 0.0% [0.0%-57.0%]				30 day mortality:				30 day mortality: 0.0% [0.0%-76.8%]				30 day mortality: 0.0% [0.0%-68.9%]				30 day mortality:			
12.03.01 Mitral valvotomy	Predicted risk: 4. High																			
<i>Invalid age: 0</i>	2	2	0	0	0	0	0		0	0	0		2	2	0	0	0	0	0	
	30 day mortality: 0.0% [0.0%-76.8%]				30 day mortality:				30 day mortality:				30 day mortality: 0.0% [0.0%-76.8%]				30 day mortality:			
12.03.03 Mitral leaflet procedure (valvoplasty)	Predicted risk: 4. High																			
<i>Invalid age: 0</i>	60	54	0	6	0	0	0		13	13	0	0	40	35	0	5	7	6	0	1
	30 day mortality: 0.0% [0.0%-10.9%]				30 day mortality:				30 day mortality: 0.0% [0.0%-33.8%]				30 day mortality: 0.0% [0.0%-15.9%]				30 day mortality: 0.0% [0.0%-52.5%]			
12.05.01 AVSD: complete (common valve orifice) repair	Predicted risk: 4. High																			
<i>Invalid age: 3</i>	147	127	3	17	0	0	0		120	105	3	12	24	21	0	3	0	0	0	
	30 day mortality: 2.3% [0.6%-8.7%]				30 day mortality:				30 day mortality: 2.8% [0.7%-10.3%]				30 day mortality: 0.0% [0.0%-24.0%]				30 day mortality:			

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	All Ages				Neonate (1-30 days)				Infant (31-365 days)				Child (1.0-16.0 years)				Adult (16 years+)			
	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
12.08.06 VSD enlargement	Predicted risk: 4. High																			
<i>Invalid age: 0</i>	5	3	1	1	0	0	0		2	1	1	0	3	2	0	1	0	0	0	
	30 day mortality: 25.0% [3.0%-78.2%]				30 day mortality:				30 day mortality: 50.0% [6.2%-93.8%]				30 day mortality: 0.0% [0.0%-76.8%]				30 day mortality:			
12.08.16 Closure of multiple VSDs	Predicted risk: 4. High																			
<i>Invalid age: 0</i>	13	11	0	2	2	2	0	0	8	6	0	2	3	3	0	0	0	0	0	
	30 day mortality: 0.0% [0.0%-37.6%]				30 day mortality: 0.0% [0.0%-76.8%]				30 day mortality: 0.0% [0.0%-52.5%]				30 day mortality: 0.0% [0.0%-68.9%]				30 day mortality:			
12.09.03 Damus-Kaye-Stansel type procedure: pulm trunk to aorta end/side anastomosis	Predicted risk: 4. High																			
<i>Invalid age: 0</i>	13	9	2	2	3	2	0	1	5	4	1	0	5	3	1	1	0	0	0	
	30 day mortality: 18.2% [3.6%-56.7%]				30 day mortality: 0.0% [0.0%-76.8%]				30 day mortality: 20.0% [2.4%-71.8%]				30 day mortality: 25.0% [3.0%-78.2%]				30 day mortality:			
12.16.02 Aortic valvotomy - open	Predicted risk: 4. High																			
<i>Invalid age: 0</i>	22	19	1	2	8	6	1	1	5	5	0	0	9	8	0	1	0	0	0	
	30 day mortality: 5.0% [0.6%-31.8%]				30 day mortality: 14.3% [1.7%-61.6%]				30 day mortality: 0.0% [0.0%-57.0%]				30 day mortality: 0.0% [0.0%-45.3%]				30 day mortality:			

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	All Ages				Neonate (1-30 days)				Infant (31-365 days)				Child (1.0-16.0 years)				Adult (16 years+)			
	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
12.16.11 Aortic valvoplasty	Predicted risk: 4. High																			
<i>Invalid age: 0</i>	28	25	1	2	2	1	1	0	2	2	0	0	24	22	0	2	0	0	0	
	30 day mortality: 3.8% [0.5%-26.0%]				30 day mortality: 50.0% [6.2%-93.8%]				30 day mortality: 0.0% [0.0%-76.8%]				30 day mortality: 0.0% [0.0%-23.2%]				30 day mortality:			
12.16.33 Aortic valvar & asc aorta replacement + coronary artery inclusion (Bentall)	Predicted risk: 4. High																			
<i>Invalid age: 0</i>	21	16	0	5	0	0	0		0	0	0		4	3	0	1	17	13	0	4
	30 day mortality: 0.0% [0.0%-29.3%]				30 day mortality:				30 day mortality:				30 day mortality: 0.0% [0.0%-68.9%]				30 day mortality: 0.0% [0.0%-33.8%]			
12.16.42 Ascending aorta aneurysm repair	Predicted risk: 4. High																			
<i>Invalid age: 0</i>	2	1	1	0	0	0	0		0	0	0		2	1	1	0	0	0	0	
	30 day mortality: 50.0% [6.2%-93.8%]				30 day mortality:				30 day mortality:				30 day mortality: 50.0% [6.2%-93.8%]				30 day mortality:			
12.17.33 PA sling repair: transection of trachea & translocate LPA anterior to trachea	Predicted risk: 4. High																			
<i>Invalid age: 0</i>	1	1	0	0	0	0	0		0	0	0		1	1	0	0	0	0	0	
	30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality:				30 day mortality:				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality:			

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	All Ages				Neonate (1-30 days)				Infant (31-365 days)				Child (1.0-16.0 years)				Adult (16 years+)						
	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU			
12.18.00	Coarctation / hypoplasia of aorta repair (unspecified)																			Predicted risk: 4. High			
<i>Invalid age: 1</i>	53	47	1	5	33	31	1	1	10	6	0	4	3	3	0	0	6	6	0	0			
	30 day mortality: 2.1% [0.2%-15.6%]				30 day mortality: 3.1% [0.4%-22.0%]				30 day mortality: 0.0% [0.0%-52.5%]				30 day mortality: 0.0% [0.0%-68.9%]				30 day mortality: 0.0% [0.0%-52.5%]						
12.23.00	Anomalous coronary artery (eg ALCAPA) repair (unspecified)																			Predicted risk: 4. High			
<i>Invalid age: 0</i>	17	15	1	1	1	1	0	0	10	8	1	1	3	3	0	0	3	3	0	0			
	30 day mortality: 6.3% [0.7%-37.4%]				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality: 11.1% [1.3%-53.9%]				30 day mortality: 0.0% [0.0%-68.9%]				30 day mortality: 0.0% [0.0%-68.9%]						
12.26.01	Tetralogy of Fallot repair (unspecified)																			Predicted risk: 4. High			
<i>Invalid age: 0</i>	187	164	6	17	3	2	1	0	88	75	3	10	93	84	2	7	3	3	0	0			
	30 day mortality: 3.5% [1.3%-9.3%]				30 day mortality: 33.3% [4.0%-85.6%]				30 day mortality: 3.8% [1.0%-14.0%]				30 day mortality: 2.3% [0.5%-11.0%]				30 day mortality: 0.0% [0.0%-68.9%]						
12.28.01	Pulmonary atresia & VSD (Fallot-type) repair																			Predicted risk: 4. High			
<i>Invalid age: 0</i>	29	20	2	7	1	1	0	0	3	1	0	2	22	17	2	3	3	1	0	2			
	30 day mortality: 9.1% [1.8%-35.3%]				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality: 10.5% [2.1%-39.4%]				30 day mortality: 0.0% [0.0%-86.9%]						

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	All Ages				Neonate (1-30 days)				Infant (31-365 days)				Child (1.0-16.0 years)				Adult (16 years+)			
	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
12.29.01 Senning procedure (atrial inversion)	Predicted risk: 4. High																			
<i>Invalid age: 0</i>	1	1	0	0	0	0	0		0	0	0		1	1	0	0	0	0	0	
	30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality:				30 day mortality:				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality:			
12.29.02 Mustard procedure (atrial inversion)	Predicted risk: 4. High																			
<i>Invalid age: 0</i>	1	1	0	0	1	1	0	0	0	0	0		0	0	0		0	0	0	
	30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality:				30 day mortality:				30 day mortality:			
12.29.11 Rastelli procedure: LV to Ao via VSD & RV to pulm trunk conduit	Predicted risk: 4. High																			
<i>Invalid age: 0</i>	21	19	0	2	0	0	0		0	0	0		21	19	0	2	0	0	0	
	30 day mortality: 0.0% [0.0%-25.9%]				30 day mortality:				30 day mortality:				30 day mortality: 0.0% [0.0%-25.9%]				30 day mortality:			
12.29.21 Arterial switch procedure (unspecified)	Predicted risk: 4. High																			
<i>Invalid age: 4</i>	165	132	6	27	131	108	4	19	21	15	1	5	9	6	1	2	0	0	0	
	30 day mortality: 4.3% [1.6%-11.3%]				30 day mortality: 3.6% [1.1%-11.3%]				30 day mortality: 6.3% [0.7%-37.4%]				30 day mortality: 14.3% [1.7%-61.6%]				30 day mortality:			

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	All Ages				Neonate (1-30 days)				Infant (31-365 days)				Child (1.0-16.0 years)				Adult (16 years+)							
	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU				
12.30.01 Fontan type procedure (unspecified)																					Predicted risk: 4. High			
<i>Invalid age: 0</i>	18	16	1	1	0	0	0		0	0	0		18	16	1	1	0	0	0					
	30 day mortality: 5.9% [0.7%-35.8%]				30 day mortality:				30 day mortality:				30 day mortality: 5.9% [0.7%-35.8%]				30 day mortality:							
12.30.54 Total cavo-pulmonary conn (TCPC) using extracardiac IVC-PA conduit																					Predicted risk: 4. High			
<i>Invalid age: 0</i>	120	92	7	21	0	0	0		0	0	0		111	86	4	21	9	6	3	0				
	30 day mortality: 7.1% [2.8%-16.7%]				30 day mortality:				30 day mortality:				30 day mortality: 4.4% [1.3%-13.8%]				30 day mortality: 33.3% [8.9%-71.9%]							
12.32.20 Removal of cardiac vegetations (unspecified)																					Predicted risk: 4. High			
<i>Invalid age: 0</i>	2	2	0	0	1	1	0	0	0	0	0		1	1	0	0	0	0	0					
	30 day mortality: 0.0% [0.0%-76.8%]				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality:				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality:							
12.35.40 Arrhythmia surgical procedure (unspecified)																					Predicted risk: 4. High			
<i>Invalid age: 0</i>	2	2	0	0	0	0	0		0	0	0		0	0	0		2	2	0	0				
	30 day mortality: 0.0% [0.0%-76.8%]				30 day mortality:				30 day mortality:				30 day mortality:				30 day mortality: 0.0% [0.0%-76.8%]							

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	All Ages				Neonate (1-30 days)				Infant (31-365 days)				Child (1.0-16.0 years)				Adult (16 years+)						
	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU			
12.36.00	Conduit construction procedure (unspecified)																			Predicted risk: 4. High			
<i>Invalid age: 0</i>	25	20	2	3	1	1	0	0	3	3	0	0	18	14	2	2	3	2	0	1			
	30 day mortality: 9.1% [1.8%-35.3%]				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality: 0.0% [0.0%-68.9%]				30 day mortality: 12.5% [2.5%-44.5%]				30 day mortality: 0.0% [0.0%-76.8%]						
12.37.02	Transplantation of heart - orthotopic allotransplant																			Predicted risk: 4. High			
<i>Invalid age: 0</i>	21	17	1	3	0	0	0		2	1	0	1	16	15	0	1	3	1	1	1			
	30 day mortality: 5.6% [0.7%-34.4%]				30 day mortality:				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality: 0.0% [0.0%-30.7%]				30 day mortality: 50.0% [6.2%-93.8%]						
12.00.03	Pulmonary vein stenosis repair																			Predicted risk: 5. Very high			
<i>Invalid age: 0</i>	12	9	0	3	0	0	0		8	5	0	3	4	4	0	0	0	0	0				
	30 day mortality: 0.0% [0.0%-42.4%]				30 day mortality:				30 day mortality: 0.0% [0.0%-57.0%]				30 day mortality: 0.0% [0.0%-62.4%]				30 day mortality:						
12.10.00	Norwood-type procedure (unspecified)																			Predicted risk: 5. Very high			
<i>Invalid age: 0</i>	66	49	14	3	62	48	12	2	4	1	2	1	0	0	0		0	0	0				
	30 day mortality: 22.2% [11.8%-38.0]				30 day mortality: 20.0% [10.0%-36.0]				30 day mortality: 66.7% [14.4%-96.0%				30 day mortality:				30 day mortality:						

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	All Ages				Neonate (1-30 days)				Infant (31-365 days)				Child (1.0-16.0 years)				Adult (16 years+)			
	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
12.11.00 Common arterial trunk (truncus) repair (unspecified)	Predicted risk: 5. Very high																			
<i>Invalid age: 1</i>	29	24	3	2	12	10	2	0	15	12	1	2	1	1	0	0	0	0	0	
	30 day mortality: 11.1% [2.9%-34.7%]				30 day mortality: 16.7% [3.3%-53.7%]				30 day mortality: 7.7% [0.9%-43.1%]				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality:			
12.16.30 Ross procedure (Ao root replacement with pulm autograft)	Predicted risk: 5. Very high																			
<i>Invalid age: 0</i>	79	69	0	10	0	0	0		5	5	0	0	39	35	0	4	35	29	0	6
	30 day mortality: 0.0% [0.0%-8.8%]				30 day mortality:				30 day mortality: 0.0% [0.0%-57.0%]				30 day mortality: 0.0% [0.0%-15.9%]				30 day mortality: 0.0% [0.0%-18.6%]			
12.21.00 Interrupted aortic arch repair (unspecified)	Predicted risk: 5. Very high																			
<i>Invalid age: 0</i>	35	32	3	0	28	25	3	0	5	5	0	0	0	0	0		2	2	0	0
	30 day mortality: 8.6% [2.2%-28.2%]				30 day mortality: 10.7% [2.8%-33.7%]				30 day mortality: 0.0% [0.0%-57.0%]				30 day mortality:				30 day mortality: 0.0% [0.0%-76.8%]			
12.25.00 Unifocalisation procedure (unspecified)	Predicted risk: 5. Very high																			
<i>Invalid age: 0</i>	27	24	1	2	2	1	0	1	9	9	0	0	16	14	1	1	0	0	0	
	30 day mortality: 4.0% [0.5%-26.8%]				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality: 0.0% [0.0%-42.4%]				30 day mortality: 6.7% [0.8%-39.1%]				30 day mortality:			

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www.ccad.org.uk

Cardiac Surgical procedures

From: **01/04/2001** to **31/03/2002**

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	All Ages				Neonate (1-30 days)				Infant (31-365 days)				Child (1.0-16.0 years)				Adult (16 years+)						
	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU			
12.27.01 Double outlet RV (Fallot-type) repair	Predicted risk: 5. Very high																						
<i>Invalid age: 1</i>	19	16	1	2	0	0	0	10	9	1	0	8	6	0	2	0	0	0					
	30 day mortality: 5.9% [0.7%-35.8%]				30 day mortality:				30 day mortality: 10.0% [1.2%-50.7%]				30 day mortality: 0.0% [0.0%-52.5%]				30 day mortality:						
12.29.25 Arterial and atrial switch procedures (double switch)	Predicted risk: 5. Very high																						
<i>Invalid age: 0</i>	4	4	0	0	0	0	0	0	0	0	4	4	0	0	0	0	0						
	30 day mortality: 0.0% [0.0%-62.4%]				30 day mortality:				30 day mortality:				30 day mortality: 0.0% [0.0%-62.4%]				30 day mortality:						
12.29.40 Complex transposition of great arteries repair (DESCRIBE)	Predicted risk: 5. Very high																						
<i>Invalid age: 0</i>	5	4	1	0	2	1	1	0	2	2	0	0	1	1	0	0	0	0	0				
	30 day mortality: 20.0% [2.4%-71.8%]				30 day mortality: 50.0% [6.2%-93.8%]				30 day mortality: 0.0% [0.0%-76.8%]				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality:						
12.32.13 Transplantation of heart and lungs	Predicted risk: 5. Very high																						
<i>Invalid age: 0</i>	2	2	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0						
	30 day mortality: 0.0% [0.0%-76.8%]				30 day mortality:				30 day mortality:				30 day mortality:				30 day mortality: 0.0% [0.0%-76.8%]						

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	All Ages				Neonate (1-30 days)				Infant (31-365 days)				Child (1.0-16.0 years)				Adult (16 years+)			
	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
12.32.03 Exploratory procedure to assess heart	Predicted risk: 6. not classified																			
<i>Invalid age: 0</i>	7	6	1	0	3	3	0	0	2	1	1	0	2	2	0	0	0	0	0	
	30 day mortality: 14.3% [1.7%-61.6%]				30 day mortality: 0.0% [0.0%-68.9%]				30 day mortality: 50.0% [6.2%-93.8%]				30 day mortality: 0.0% [0.0%-76.8%]				30 day mortality:			
12.34.64 Pacemaker system placement: permanent endocardial	Predicted risk: 6. not classified																			
<i>Invalid age: 0</i>	6	6	0	0	2	2	0	0	2	2	0	0	2	2	0	0	0	0	0	
	30 day mortality: 0.0% [0.0%-52.5%]				30 day mortality: 0.0% [0.0%-76.8%]				30 day mortality: 0.0% [0.0%-76.8%]				30 day mortality: 0.0% [0.0%-76.8%]				30 day mortality:			
12.45.04 Transluminal retrieval of foreign body (unspecified)	Predicted risk: 6. not classified																			
<i>Invalid age: 0</i>	1	1	0	0	0	0	0		0	0	0		1	1	0	0	0	0	0	
	30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality:				30 day mortality:				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality:			
12.64.40 Tracheobronchial reconstruction procedure (unspecified)	Predicted risk: 6. not classified																			
<i>Invalid age: 0</i>	4	3	0	1	0	0	0		3	2	0	1	1	1	0	0	0	0	0	
	30 day mortality: 0.0% [0.0%-68.9%]				30 day mortality:				30 day mortality: 0.0% [0.0%-76.8%]				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality:			

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	All Ages				Neonate (1-30 days)				Infant (31-365 days)				Child (1.0-16.0 years)				Adult (16 years+)			
	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
12.65.06 Mediastinal procedure	Predicted risk: 6. not classified																			
<i>Invalid age: 0</i>	2	2	0	0	0	0	0		0	0	0		2	2	0	0	0	0	0	
	30 day mortality: 0.0% [0.0%-76.8%]				30 day mortality:				30 day mortality:				30 day mortality: 0.0% [0.0%-76.8%]				30 day mortality:			
99.99.99 Other procedure	Predicted risk: 6. not classified																			
<i>Invalid age: 0</i>	36	28	4	4	0	0	0		10	9	0	1	16	13	2	1	10	6	2	2
	30 day mortality: 12.5% [3.8%-34.1%]				30 day mortality:				30 day mortality: 0.0% [0.0%-42.4%]				30 day mortality: 13.3% [2.7%-46.5%]				30 day mortality: 25.0% [5.1%-67.6%]			

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	All Ages				Neonate (1-30 days)				Infant (31-365 days)				Child (1.0-16.0 years)				Adult (16 years +)			
	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
ACH. Alder Hey Hospital	317	303	9	5	65	63	2	0	126	119	4	3	121	117	3	1	5	4	0	1
<i>Invalid age: 0</i>	30 day mortality: 2.9% [1.3%-6.5%]				30 day mortality: 3.1% [0.6%-14.2%]				30 day mortality: 3.3% [1.0%-10.3%]				30 day mortality: 2.5% [0.6%-9.3%]				30 day mortality: 0.0% [0.0%-62.4%]			
BCH. Birmingham Childrens Hospital	477	453	11	13	107	95	6	6	147	143	3	1	193	188	2	3	30	27	0	3
<i>Invalid age: 0</i>	30 day mortality: 2.4% [1.1%-5.0%]				30 day mortality: 5.9% [2.2%-15.1%]				30 day mortality: 2.1% [0.5%-7.8%]				30 day mortality: 1.1% [0.2%-5.2%]				30 day mortality: 0.0% [0.0%-19.7%]			
BRC. Bristol Children's Hospital	262	229	8	25	46	38	1	7	77	64	2	11	104	95	2	7	35	32	3	0
<i>Invalid age: 0</i>	30 day mortality: 3.4% [1.4%-7.9%]				30 day mortality: 2.6% [0.3%-18.6%]				30 day mortality: 3.0% [0.6%-14.0%]				30 day mortality: 2.1% [0.4%-9.9%]				30 day mortality: 8.6% [2.2%-28.2%]			
FRE. Freeman Hospital	213	192	3	18	48	44	0	4	57	49	0	8	76	71	2	3	32	28	1	3
<i>Invalid age: 0</i>	30 day mortality: 1.5% [0.4%-5.9%]				30 day mortality: 0.0% [0.0%-13.1%]				30 day mortality: 0.0% [0.0%-11.9%]				30 day mortality: 2.7% [0.5%-12.8%]				30 day mortality: 3.4% [0.4%-23.8%]			
GOS. The Hospital for Sick Children	490	351	17	122	102	69	5	28	180	139	4	37	180	135	6	39	8	2	1	5
<i>Invalid age: 20</i>	30 day mortality: 4.6% [2.5%-8.3%]				30 day mortality: 6.8% [2.3%-18.3%]				30 day mortality: 2.8% [0.8%-8.9%]				30 day mortality: 4.3% [1.6%-11.1%]				30 day mortality: 33.3% [4.0%-85.6%]			
GRL. Glenfield Hospital	170	157	10	3	45	40	5	0	58	54	3	1	63	60	2	1	4	3	0	1
<i>Invalid age: 0</i>	30 day mortality: 6.0% [2.7%-12.6%]				30 day mortality: 11.1% [3.8%-28.4%]				30 day mortality: 5.3% [1.3%-18.5%]				30 day mortality: 3.2% [0.6%-14.9%]				30 day mortality: 0.0% [0.0%-68.9%]			

Period covered: 01/04/2001 to 31/03/2002

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	All Ages				Neonate (1-30 days)				Infant (31-365 days)				Child (1.0-16.0 years)				Adult (16 years +)			
	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
GUY. Guy's Hospital	280	209	13	58	75	53	5	17	82	62	2	18	113	91	6	16	7	1	0	6
<i>Invalid age: 3</i>	30 day mortality: 5.9% [2.9%-11.3%]				30 day mortality: 8.6% [2.9%-22.8%]				30 day mortality: 3.1% [0.6%-14.4%]				30 day mortality: 6.2% [2.3%-15.7%]				30 day mortality: 0.0% [0.0%-86.9%]			
HSC. Harley Street Clinic	120	25	9	86	5	3	0	2	51	12	5	34	58	8	4	46	5	1	0	4
<i>Invalid age: 1</i>	30 day mortality: 26.5% [12.1%-48.0%]				30 day mortality: 0.0% [0.0%-68.9%]				30 day mortality: 29.4% [10.4%-60.0%]				30 day mortality: 33.3% [10.5%-68.0%]				30 day mortality: 0.0% [0.0%-86.9%]			
LGI. Leeds General Infirmary	278	261	10	7	59	50	6	3	90	88	1	1	112	108	2	2	16	14	1	1
<i>Invalid age: 1</i>	30 day mortality: 3.7% [1.7%-7.9%]				30 day mortality: 10.7% [4.0%-25.8%]				30 day mortality: 1.1% [0.1%-8.9%]				30 day mortality: 1.8% [0.4%-8.8%]				30 day mortality: 6.7% [0.8%-39.1%]			
NHB. Royal Brompton Hospital	494	385	25	84	68	45	8	15	113	90	5	18	121	97	0	24	192	153	12	27
<i>Invalid age: 0</i>	30 day mortality: 6.1% [3.7%-9.9%]				30 day mortality: 15.1% [6.4%-31.5%]				30 day mortality: 5.3% [1.8%-14.6%]				30 day mortality: 0.0% [0.0%-6.4%]				30 day mortality: 7.3% [3.6%-14.3%]			
QEB. Queen Elizabeth Hospital	25	18	1	6	0	0	0	0	0	0	0	0	3	1	1	1	22	17	0	5
<i>Invalid age: 0</i>	30 day mortality: 5.3% [0.6%-33.1%]				30 day mortality: #Num!				30 day mortality: #Num!				30 day mortality: 50.0% [6.2%-93.8%]				30 day mortality: 0.0% [0.0%-28.1%]			
RAD. John Radcliffe Infirmary	101	97	3	1	16	14	1	1	41	40	1	0	44	43	1	0	0	0	0	0
<i>Invalid age: 0</i>	30 day mortality: 3.0% [0.8%-11.1%]				30 day mortality: 6.7% [0.8%-39.1%]				30 day mortality: 2.4% [0.3%-17.8%]				30 day mortality: 2.3% [0.3%-16.8%]				30 day mortality: % [%-%]			

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	All Ages				Neonate (1-30 days)				Infant (31-365 days)				Child (1.0-16.0 years)				Adult (16 years +)			
	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
RHS. Royal Hospital for Sick Children	235	225	6	4	50	45	3	2	66	65	1	0	116	114	2	0	3	1	0	2
<i>Invalid age: 0</i>	30 day mortality: 2.6% [1.0%-6.9%]				30 day mortality: 6.3% [1.6%-21.5%]				30 day mortality: 1.5% [0.2%-11.7%]				30 day mortality: 1.7% [0.3%-8.3%]				30 day mortality: 0.0% [0.0%-86.9%]			
RVB. Royal Victoria Hospital	101	89	3	9	18	17	0	1	27	26	1	0	47	43	1	3	9	3	1	5
<i>Invalid age: 0</i>	30 day mortality: 3.3% [0.8%-12.0%]				30 day mortality: 0.0% [0.0%-28.1%]				30 day mortality: 3.7% [0.4%-25.2%]				30 day mortality: 2.3% [0.3%-16.8%]				30 day mortality: 25.0% [3.0%-78.2%]			
SGH. Southampton General Hospital	243	218	10	15	56	47	4	5	78	69	4	5	70	70	0	0	39	32	2	5
<i>Invalid age: 0</i>	30 day mortality: 4.4% [2.0%-9.4%]				30 day mortality: 7.8% [2.4%-23.0%]				30 day mortality: 5.5% [1.6%-16.7%]				30 day mortality: 0.0% [0.0%-8.7%]				30 day mortality: 5.9% [1.2%-25.0%]			

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Cardiac Surgical Benchmark Procedures From: 01/04/2001 to 31/03/2002

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		Procedures	Alive 30d	Deaths 30d	30 day mortality	99% C.I.	No 30 day FU
ACH. Alder Hey Hospital	ASD closure (surgical)	17	17	0	0.0%	[0.0%-28.1%]	0
BCH. Birmingham Childrens Hospital	ASD closure (surgical)	26	26	0	0.0%	[0.0%-20.3%]	0
BRC. Bristol Children's Hospital	ASD closure (surgical)	20	20	0	0.0%	[0.0%-24.9%]	0
FRE. Freeman Hospital	ASD closure (surgical)	10	9	0	0.0%	[0.0%-42.4%]	1
GOS. The Hospital for Sick Children	ASD closure (surgical)	14	10	0	0.0%	[0.0%-39.9%]	4
GRL. Glenfield Hospital	ASD closure (surgical)	13	13	0	0.0%	[0.0%-33.8%]	0
GUY. Guy's Hospital	ASD closure (surgical)	7	6	0	0.0%	[0.0%-52.5%]	1
HSC. Harley Street Clinic	ASD closure (surgical)	2	1	0	0.0%	[0.0%-86.9%]	1
LGI. Leeds General Infirmary	ASD closure (surgical)	27	27	0	0.0%	[0.0%-19.7%]	0
NHB. Royal Brompton Hospital	ASD closure (surgical)	31	29	0	0.0%	[0.0%-18.6%]	2
QEB. Queen Elizabeth Hospital	ASD closure (surgical)	5	4	0	0.0%	[0.0%-62.4%]	1
RAD. John Radcliffe Infirmary	ASD closure (surgical)	8	8	0	0.0%	[0.0%-45.3%]	0
RHS. Royal Hospital for Sick Children	ASD closure (surgical)	15	14	0	0.0%	[0.0%-32.2%]	1

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		Procedures	Alive 30d	Deaths 30d	30 day mortality	99% C.I.	No 30 day FU
RVB. Royal Victoria Hospital	ASD closure (surgical)	11	11	0	0.0%	[0.0%-37.6%]	0
SGH. Southampton General Hospital	ASD closure (surgical)	19	18	0	0.0%	[0.0%-26.9%]	1
ACH. Alder Hey Hospital	AVSD (complete) repair	3	3	0	0.0%	[0.0%-68.9%]	0
BCH. Birmingham Childrens Hospital	AVSD (complete) repair	7	7	0	0.0%	[0.0%-48.7%]	0
BRC. Bristol Children's Hospital	AVSD (complete) repair	3	3	0	0.0%	[0.0%-68.9%]	0
FRE. Freeman Hospital	AVSD (complete) repair	3	3	0	0.0%	[0.0%-68.9%]	0
GOS. The Hospital for Sick Children	AVSD (complete) repair	20	16	0	0.0%	[0.0%-29.3%]	4
GRL. Glenfield Hospital	AVSD (complete) repair	8	7	1	12.5%	[1.5%-57.5%]	0
GUY. Guy's Hospital	AVSD (complete) repair	10	10	0	0.0%	[0.0%-39.9%]	0
HSC. Harley Street Clinic	AVSD (complete) repair	9	2	0	0.0%	[0.0%-76.8%]	7
LGI. Leeds General Infirmary	AVSD (complete) repair	8	8	0	0.0%	[0.0%-45.3%]	0
NHB. Royal Brompton Hospital	AVSD (complete) repair	12	10	1	9.1%	[1.1%-47.9%]	1
RAD. John Radcliffe Infirmary	AVSD (complete) repair	5	5	0	0.0%	[0.0%-57.0%]	0

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		Procedures	Alive 30d	Deaths 30d	30 day mortality	99% C.I.	No 30 day FU
RHS. Royal Hospital for Sick Children	AVSD (complete) repair	6	6	0	0.0%	[0.0%-52.5%]	0
RVB. Royal Victoria Hospital	AVSD (complete) repair	7	7	0	0.0%	[0.0%-48.7%]	0
SGH. Southampton General Hospital	AVSD (complete) repair	7	7	0	0.0%	[0.0%-48.7%]	0
ACH. Alder Hey Hospital	Coarct repair	26	26	0	0.0%	[0.0%-20.3%]	0
BCH. Birmingham Childrens Hospital	Coarct repair	18	18	0	0.0%	[0.0%-26.9%]	0
BRC. Bristol Children's Hospital	Coarct repair	22	19	0	0.0%	[0.0%-25.9%]	3
FRE. Freeman Hospital	Coarct repair	16	16	0	0.0%	[0.0%-29.3%]	0
GOS. The Hospital for Sick Children	Coarct repair	25	16	0	0.0%	[0.0%-29.3%]	9
GRL. Glenfield Hospital	Coarct repair	13	13	0	0.0%	[0.0%-33.8%]	0
GUY. Guy's Hospital	Coarct repair	23	21	0	0.0%	[0.0%-24.0%]	2
HSC. Harley Street Clinic	Coarct repair	2	1	0	0.0%	[0.0%-86.9%]	1
LGI. Leeds General Infirmary	Coarct repair	28	27	1	3.6%	[0.4%-24.5%]	0
NHB. Royal Brompton Hospital	Coarct repair	30	24	1	4.0%	[0.5%-26.8%]	5

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Cardiac Surgical Benchmark Procedures From: 01/04/2001 to 31/03/2002

Note 1. Range shown in brackets is 99% confidence interval for mortality (calculated using Wilson Score method).

Note 2. Records under "No FU" column represent those cases where reoperation took place within 30 days or no FU was available.

Note 3. "Deaths" are known mortalities no later than 30 days after operation, whether pre or post discharge.

		Procedures	Alive 30d	Deaths 30d	30 day mortality	99% C.I.	No 30 day FU
RAD. John Radcliffe Infirmary	Coarct repair	5	5	0	0.0%	[0.0%-57.0%]	0
RHS. Royal Hospital for Sick Children	Coarct repair	16	16	0	0.0%	[0.0%-29.3%]	0
RVB. Royal Victoria Hospital	Coarct repair	9	9	0	0.0%	[0.0%-42.4%]	0
SGH. Southampton General Hospital	Coarct repair	12	12	0	0.0%	[0.0%-35.6%]	0
BCH. Birmingham Childrens Hospital	tetralogy repair	22	21	1	4.5%	[0.5%-29.6%]	0
BRC. Bristol Children's Hospital	tetralogy repair	15	15	0	0.0%	[0.0%-30.7%]	0
FRE. Freeman Hospital	tetralogy repair	12	12	0	0.0%	[0.0%-35.6%]	0
GOS. The Hospital for Sick Children	tetralogy repair	21	17	0	0.0%	[0.0%-28.1%]	4
GRL. Glenfield Hospital	tetralogy repair	10	9	1	10.0%	[1.2%-50.7%]	0
GUY. Guy's Hospital	tetralogy repair	13	11	0	0.0%	[0.0%-37.6%]	2
HSC. Harley Street Clinic	tetralogy repair	7	1	0	0.0%	[0.0%-86.9%]	6
LGI. Leeds General Infirmary	tetralogy repair	18	14	2	12.5%	[2.5%-44.5%]	2
NHB. Royal Brompton Hospital	tetralogy repair	20	17	0	0.0%	[0.0%-28.1%]	3

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		Procedures	Alive 30d	Deaths 30d	30 day mortality	99% C.I.	No 30 day FU
RAD. John Radcliffe Infirmary	tetralogy repair	7	6	1	14.3%	[1.7%-61.6%]	0
RHS. Royal Hospital for Sick Children	tetralogy repair	6	6	0	0.0%	[0.0%-52.5%]	0
RVB. Royal Victoria Hospital	tetralogy repair	3	3	0	0.0%	[0.0%-68.9%]	0
SGH. Southampton General Hospital	tetralogy repair	8	7	1	12.5%	[1.5%-57.5%]	0
ACH. Alder Hey Hospital	TGA arterial switch	10	10	0	0.0%	[0.0%-39.9%]	0
BCH. Birmingham Childrens Hospital	TGA arterial switch	14	13	0	0.0%	[0.0%-33.8%]	1
BRC. Bristol Children's Hospital	TGA arterial switch	12	8	0	0.0%	[0.0%-45.3%]	4
FRE. Freeman Hospital	TGA arterial switch	7	7	0	0.0%	[0.0%-48.7%]	0
GOS. The Hospital for Sick Children	TGA arterial switch	23	18	1	5.3%	[0.6%-33.1%]	4
GRL. Glenfield Hospital	TGA arterial switch	3	3	0	0.0%	[0.0%-68.9%]	0
GUY. Guy's Hospital	TGA arterial switch	8	6	0	0.0%	[0.0%-52.5%]	2
HSC. Harley Street Clinic	TGA arterial switch	8	3	0	0.0%	[0.0%-68.9%]	5
LGI. Leeds General Infirmary	TGA arterial switch	14	14	0	0.0%	[0.0%-32.2%]	0

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Note 3. "Deaths" are known mortalities no later than 30 days after operation, whether pre or post discharge.

		Procedures	Alive 30d	Deaths 30d	30 day mortality	99% C.I.	No 30 day FU
NHB. Royal Brompton Hospital	TGA arterial switch	19	12	2	14.3%	[2.8%-48.7%]	5
RHS. Royal Hospital for Sick Children	TGA arterial switch	11	11	0	0.0%	[0.0%-37.6%]	0
RVB. Royal Victoria Hospital	TGA arterial switch	1	1	0	0.0%	[0.0%-86.9%]	0
SGH. Southampton General Hospital	TGA arterial switch	7	6	1	14.3%	[1.7%-61.6%]	0
ACH. Alder Hey Hospital	VSD closure	29	28	0	0.0%	[0.0%-19.2%]	1
BCH. Birmingham Childrens Hospital	VSD closure	30	30	0	0.0%	[0.0%-18.1%]	0
BRC. Bristol Children's Hospital	VSD closure	20	18	0	0.0%	[0.0%-26.9%]	2
FRE. Freeman Hospital	VSD closure	1	1	0	0.0%	[0.0%-86.9%]	0
GOS. The Hospital for Sick Children	VSD closure	45	29	0	0.0%	[0.0%-18.6%]	16
GRL. Glenfield Hospital	VSD closure	17	17	0	0.0%	[0.0%-28.1%]	0
GUY. Guy's Hospital	VSD closure	9	4	0	0.0%	[0.0%-62.4%]	5
HSC. Harley Street Clinic	VSD closure	15	5	1	16.7%	[2.0%-66.4%]	9
LGI. Leeds General Infirmary	VSD closure	29	28	1	3.4%	[0.4%-23.8%]	0

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Note 3. "Deaths" are known mortalities no later than 30 days after operation, whether pre or post discharge.

		Procedures	Alive 30d	Deaths 30d	30 day mortality	99% C.I.	No 30 day FU
NHB. Royal Brompton Hospital	VSD closure	31	26	0	0.0%	[0.0%-20.3%]	5
QEB. Queen Elizabeth Hospital	VSD closure	1	1	0	0.0%	[0.0%-86.9%]	0
RAD. John Radcliffe Infirmary	VSD closure	17	17	0	0.0%	[0.0%-28.1%]	0
RHS. Royal Hospital for Sick Children	VSD closure	17	17	0	0.0%	[0.0%-28.1%]	0
RVB. Royal Victoria Hospital	VSD closure	11	11	0	0.0%	[0.0%-37.6%]	0
SGH. Southampton General Hospital	VSD closure	12	12	0	0.0%	[0.0%-35.6%]	0

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Summary - Catheter Interventional Procedures

Range shown in brackets is 99% confidence interval for mortality (calculated using Wilson Score method). Sum of age categories may not equal "All ages" total due to occasional missing ages.

	All Ages				Neonate (1-30 days)				Infant (31-365 days)				Child (1.0-16.0 years)				Adult (16 years +)			
	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
All intervention:	2,014	1,811	17	28	179	146	5	28	253	237	4	12	1,133	1,048	5	80	444	379	3	62
Invalid age: 5	30 day mortality: 0.9% [0.5%-1.7%]				30 day mortality: 3.3% [1.1%-9.4%]				30 day mortality: 1.7% [0.5%-5.4%]				30 day mortality: 0.5% [0.2%-1.4%]				30 day mortality: 0.8% [0.2%-3.1%]			

"Deaths" are known mortalities no later than 30 days after operation, whether pre or post discharge.

Period covered: 01/04/2001 to 31/03/2002

Mortality reported at 30 DAYS POST-PROCEDURE.

Patient mortality has been tracked via the Office of National Statistics.

Hospital

ACH. Alder Hey Hospital
ACH. Alder Hey Hospital
ACH. Alder Hey Hospital
ACH. Alder Hey Hospital
BCH. Birmingham Childrens Hospital
BCH. Birmingham Childrens Hospital
BCH. Birmingham Childrens Hospital
BCH. Birmingham Childrens Hospital
BCH. Birmingham Childrens Hospital
BRC. Bristol Children's Hospital
BRC. Bristol Children's Hospital
BRC. Bristol Children's Hospital
BRC. Bristol Children's Hospital
FRE. Freeman Hospital

Surgical Procedures

5
121
126
65
30
193
147
107
35
104
77
46
32

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Catheter Interventional Benchmark Procedures 01/04/2001 to 31/03/2002

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Note 2. Sum of age categories may not equal "All ages" total due to occasional missing ages.

Note 3. Records under "No FU" column represent those cases where reoperation took place within 30 days or no FU was available.

Note 4. "Deaths" are known mortalities no later than 30 days after operation, whether pre or post discharge.

	All Ages				Neonate (1-30 days)				Infant (31-365 days)				Child (1.0-16.0 years)				Adult (16 years+)			
	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
ASD closure (catheter) <i>Invalid age: 0</i>	221	187	0	34	1	1	0	0	1	1	0	0	91	86	0	5	128	99	0	29
	30 day mortality: 0.0% [0.0%-3.4%]				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality: 0.0% [0.0%-7.2%]				30 day mortality: 0.0% [0.0%-6.3%]			
Balloon pulmonary valve <i>Invalid age: 1</i>	193	174	2	17	34	27	1	6	75	73	1	1	64	57	0	7	19	16	0	3
	30 day mortality: 1.1% [0.2%-5.6%]				30 day mortality: 3.6% [0.4%-24.5%]				30 day mortality: 1.4% [0.2%-10.5%]				30 day mortality: 0.0% [0.0%-10.4%]				30 day mortality: 0.0% [0.0%-29.3%]			
Duct closure (catheter) <i>Invalid age: 0</i>	541	510	1	30	0	0	0		38	35	0	3	408	386	1	21	95	89	0	6
	30 day mortality: 0.2% [0.0%-1.6%]				30 day mortality:				30 day mortality: 0.0% [0.0%-15.9%]				30 day mortality: 0.3% [0.0%-2.2%]				30 day mortality: 0.0% [0.0%-6.9%]			

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Note 2. Sum of age categories may not equal "All ages" total due to occasional missing ages.

Note 3. Records under "No FU" column represent those cases where reoperation took place within 30 days or no FU was available.

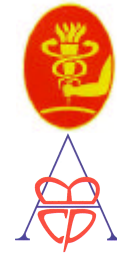
Note 4. "Deaths" are known mortalities no later than 30 days after operation, whether pre or post discharge.

	All Ages				Neonate (1-30 days)				Infant (31-365 days)				Child (1.0-16.0 years)				Adult (16 years+)				
	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	
12.00.25. Placement of stent in pulmonary vein or pathway																					
<i>Invalid age: 0</i>	1	1	0	0	0	0	0		0	0	0		1	1	0	0	0	0	0		
	30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality:				30 day mortality:				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality:				
12.00.43. Balloon dilation of systemic vein or pathway																					
<i>Invalid age: 0</i>	32	28	2	2	0	0	0		15	13	1	1	10	8	1	1	7	7	0	0	
	30 day mortality: 6.7% [1.3%-27.7%]				30 day mortality:				30 day mortality: 7.1% [0.8%-41.0%]				30 day mortality: 11.1% [1.3%-53.9%]				30 day mortality: 0.0% [0.0%-48.7%]				
12.01.06. ASD closure with transluminal prosthesis																					
<i>Invalid age: 0</i>	224	190	0	34	1	1	0	0	1	1	0	0	91	86	0	5	131	102	0	29	
	30 day mortality: 0.0% [0.0%-3.4%]				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality: 0.0% [0.0%-7.2%]				30 day mortality: 0.0% [0.0%-6.1%]				
12.01.41. Balloon atrial septostomy by pull back (Rashkind)																					
<i>Invalid age: 0</i>	112	98	3	11	96	82	3	11	11	11	0	0	4	4	0	0	1	1	0	0	
	30 day mortality: 3.0% [0.8%-11.0%]				30 day mortality: 3.5% [0.9%-12.9%]				30 day mortality: 0.0% [0.0%-37.6%]				30 day mortality: 0.0% [0.0%-62.4%]				30 day mortality: 0.0% [0.0%-86.9%]				
12.06.04. RV outflow tract dilation patch placement (PV intact)																					
<i>Invalid age: 0</i>	1	1	0	0	0	0	0		0	0	0		1	1	0	0	0	0	0		
	30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality:				30 day mortality:				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality:				

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	All Ages				Neonate (1-30 days)				Infant (31-365 days)				Child (1.0-16.0 years)				Adult (16 years+)				
	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	
12.06.05. Balloon dilation of RV outflow tract																					
<i>Invalid age: 0</i>	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	
	30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality:				30 day mortality:				30 day mortality: 0.0% [0.0%-86.9%]								
12.06.18. Stent placement in RV outflow tract																					
<i>Invalid age: 0</i>	4	4	0	0	0	0	0	0	0	0	0	0	4	4	0	0	0	0	0	0	
	30 day mortality: 0.0% [0.0%-62.4%]				30 day mortality:				30 day mortality:				30 day mortality: 0.0% [0.0%-62.4%]								
12.08.01. VSD closure (unspecified)																					
<i>Invalid age: 0</i>	3	3	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	2	0	0	
	30 day mortality: 0.0% [0.0%-68.9%]				30 day mortality:				30 day mortality:				30 day mortality: 0.0% [0.0%-86.9%]								
12.08.07. VSD closure with transluminal prosthesis																					
<i>Invalid age: 0</i>	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	
	30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality:				30 day mortality:				30 day mortality: 0.0% [0.0%-86.9%]								
12.10.14. Stent placement in arterial duct (PDA)																					
<i>Invalid age: 0</i>	2	2	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	
	30 day mortality: 0.0% [0.0%-76.8%]				30 day mortality:				30 day mortality: 0.0% [0.0%-76.8%]				30 day mortality:								

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	All Ages				Neonate (1-30 days)				Infant (31-365 days)				Child (1.0-16.0 years)				Adult (16 years+)			
	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
12.13.02. Pulmonary valvotomy - open																				
<i>Invalid age: 0</i>	5	5	0	0	5	5	0	0	0	0	0		0	0	0		0	0	0	
	30 day mortality: 0.0% [0.0%-57.0%]				30 day mortality: 0.0% [0.0%-57.0%]				30 day mortality:				30 day mortality:				30 day mortality:			
12.13.05. Balloon pulmonary valvotomy																				
<i>Invalid age: 1</i>	193	174	2	17	34	27	1	6	75	73	1	1	64	57	0	7	19	16	0	3
	30 day mortality: 1.1% [0.2%-5.6%]				30 day mortality: 3.6% [0.4%-24.5%]				30 day mortality: 1.4% [0.2%-10.5%]				30 day mortality: 0.0% [0.0%-10.4%]				30 day mortality: 0.0% [0.0%-29.3%]			
12.13.07. Transluminal laser pulmonary valvotomy																				
<i>Invalid age: 0</i>	2	1	0	1	2	1	0	1	0	0	0		0	0	0		0	0	0	
	30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality:				30 day mortality:				30 day mortality:			
12.13.08. Transluminal radiofrequency pulmonary valvotomy																				
<i>Invalid age: 0</i>	11	11	0	0	7	7	0	0	2	2	0	0	2	2	0	0	0	0	0	
	30 day mortality: 0.0% [0.0%-37.6%]				30 day mortality: 0.0% [0.0%-48.7%]				30 day mortality: 0.0% [0.0%-76.8%]				30 day mortality: 0.0% [0.0%-76.8%]				30 day mortality:			
12.13.21. Pulmonary valvar replacement (not conduit)																				
<i>Invalid age: 0</i>	1	1	0	0	0	0	0		0	0	0		0	0	0		1	1	0	0
	30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality:				30 day mortality:				30 day mortality:				30 day mortality: 0.0% [0.0%-86.9%]			

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	All Ages				Neonate (1-30 days)				Infant (31-365 days)				Child (1.0-16.0 years)				Adult (16 years+)								
	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU					
12.14.05. Balloon dilation of pulmonary trunk																									
<i>Invalid age: 0</i>	134	125	0	9	3	2	0	1	23	23	0	0	99	91	0	8	9	9	0	0	30 day mortality: 0.0% [0.0%-5.0%]	30 day mortality: 0.0% [0.0%-76.8%]	30 day mortality: 0.0% [0.0%-22.4%]	30 day mortality: 0.0% [0.0%-6.8%]	30 day mortality: 0.0% [0.0%-42.4%]
12.15.14. Stent placement in LPA																									
<i>Invalid age: 0</i>	49	42	1	6	0	0	0		3	1	0	2	34	31	1	2	12	10	0	2	30 day mortality: 2.3% [0.3%-17.1%]	30 day mortality:	30 day mortality: 0.0% [0.0%-86.9%]	30 day mortality: 3.1% [0.4%-22.0%]	30 day mortality: 0.0% [0.0%-39.9%]
12.16.05. Balloon aortic valvotomy																									
<i>Invalid age: 0</i>	74	65	2	7	12	7	1	4	19	17	1	1	37	35	0	2	6	6	0	0	30 day mortality: 3.0% [0.6%-13.9%]	30 day mortality: 12.5% [1.5%-57.5]	30 day mortality: 5.6% [0.7%-34.4%]	30 day mortality: 0.0% [0.0%-15.9%]	30 day mortality: 0.0% [0.0%-52.5%]
12.16.21. Aortic valvar replacement (unspecified)																									
<i>Invalid age: 0</i>	1	1	0	0	0	0	0		0	0	0		0	0	0		1	1	0	0	30 day mortality: 0.0% [0.0%-86.9%]	30 day mortality:	30 day mortality:	30 day mortality:	30 day mortality: 0.0% [0.0%-86.9%]
12.18.04. Balloon dilation of native aortic coarct/hypoplasia																									
<i>Invalid age: 0</i>	51	48	1	2	2	2	0	0	19	17	1	1	22	21	0	1	8	8	0	0	30 day mortality: 2.0% [0.2%-15.3%]	30 day mortality: 0.0% [0.0%-76.8%]	30 day mortality: 5.6% [0.7%-34.4%]	30 day mortality: 0.0% [0.0%-24.0%]	30 day mortality: 0.0% [0.0%-45.3%]

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Catheter Interventional Procedures From: 01/04/2001 to 31/03/2002

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Note 4. "Deaths" are known mortalities no later than 30 days after operation, whether pre or post discharge.

	All Ages				Neonate (1-30 days)				Infant (31-365 days)				Child (1.0-16.0 years)				Adult (16 years+)			
	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
12.18.08. Balloon dilation of aortic re-coarctation																				
<i>Invalid age: 0</i>	29	27	0	2	1	1	0	0	17	15	0	2	7	7	0	0	4	4	0	0
	30 day mortality: 0.0% [0.0%-19.7%]				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality: 0.0% [0.0%-30.7%]				30 day mortality: 0.0% [0.0%-48.7%]				30 day mortality: 0.0% [0.0%-62.4%]			
12.18.09. Stent placement at site of aortic coarctation																				
<i>Invalid age: 0</i>	44	37	0	7	0	0	0		0	0	0		22	18	0	4	22	19	0	3
	30 day mortality: 0.0% [0.0%-15.2%]				30 day mortality:				30 day mortality:				30 day mortality: 0.0% [0.0%-26.9%]				30 day mortality: 0.0% [0.0%-25.9%]			
12.23.38. Transluminal coronary stent implantation																				
<i>Invalid age: 0</i>	10	9	0	1	0	0	0		0	0	0		3	2	0	1	7	7	0	0
	30 day mortality: 0.0% [0.0%-42.4%]				30 day mortality:				30 day mortality:				30 day mortality: 0.0% [0.0%-76.8%]				30 day mortality: 0.0% [0.0%-48.7%]			
12.24.04. Arterial duct (PDA) closure with transluminal prosthesis																				
<i>Invalid age: 0</i>	542	511	1	30	0	0	0		38	35	0	3	409	387	1	21	95	89	0	6
	30 day mortality: 0.2% [0.0%-1.6%]				30 day mortality:				30 day mortality: 0.0% [0.0%-15.9%]				30 day mortality: 0.3% [0.0%-2.2%]				30 day mortality: 0.0% [0.0%-6.9%]			
12.25.62. Stent placement in MAPCA																				
<i>Invalid age: 0</i>	1	1	0	0	0	0	0		0	0	0		1	1	0	0	0	0	0	
	30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality:				30 day mortality:				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality:			

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	All Ages				Neonate (1-30 days)				Infant (31-365 days)				Child (1.0-16.0 years)				Adult (16 years+)			
	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
12.29.02. Mustard procedure (atrial inversion)																				
<i>Invalid age: 0</i>	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
	30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality:				30 day mortality:				30 day mortality:				30 day mortality: 0.0% [0.0%-86.9%]			
12.29.21. Arterial switch procedure (unspecified)																				
<i>Invalid age: 0</i>	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality:				30 day mortality:				30 day mortality:			
12.31.19. Balloon dilation of systemic-PA shunt																				
<i>Invalid age: 0</i>	7	7	0	0	0	0	0	0	3	3	0	0	2	2	0	0	2	2	0	0
	30 day mortality: 0.0% [0.0%-48.7%]				30 day mortality:				30 day mortality: 0.0% [0.0%-68.9%]				30 day mortality: 0.0% [0.0%-76.8%]				30 day mortality: 0.0% [0.0%-76.8%]			
12.32.40. Pericardiocentesis																				
<i>Invalid age: 0</i>	28	23	2	3	2	2	0	0	5	4	0	1	15	12	1	2	6	5	1	0
	30 day mortality: 8.0% [1.6%-32.0%]				30 day mortality: 0.0% [0.0%-76.8%]				30 day mortality: 0.0% [0.0%-62.4%]				30 day mortality: 7.7% [0.9%-43.1%]				30 day mortality: 16.7% [2.0%-66.4%]			
12.34.60. Pacemaker system placement: temporary (unspecified)																				
<i>Invalid age: 0</i>	10	8	2	0	0	0	0	0	0	0	0	0	7	7	0	0	3	1	2	0
	30 day mortality: 20.0% [4.0%-59.9]				30 day mortality:				30 day mortality:				30 day mortality: 0.0% [0.0%-48.7%]				30 day mortality: 66.7% [14.4%-96.0]			

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	All Ages				Neonate (1-30 days)				Infant (31-365 days)				Child (1.0-16.0 years)				Adult (16 years+)							
	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU				
12.34.63. Pacemaker system placement: permanent epicardial																								
<i>Invalid age: 0</i>	33	28	0	5	2	1	0	1	0	0	0	0	17	15	0	2	14	12	0	2				
	30 day mortality: 0.0% [0.0%-19.2%]				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality:				30 day mortality: 0.0% [0.0%-30.7%]				30 day mortality: 0.0% [0.0%-35.6%]							
12.34.64. Pacemaker system placement: permanent endocardial																								
<i>Invalid age: 0</i>	74	73	0	1	2	2	0	0	10	10	0	0	51	51	0	0	11	10	0	1				
	30 day mortality: 0.0% [0.0%-8.3%]				30 day mortality: 0.0% [0.0%-76.8%]				30 day mortality: 0.0% [0.0%-39.9%]				30 day mortality: 0.0% [0.0%-11.5%]				30 day mortality: 0.0% [0.0%-39.9%]							
12.34.67. Pacemaker system placement: permanent																								
<i>Invalid age: 0</i>	9	9	0	0	0	0	0	0	0	0	0	0	9	9	0	0	0	0	0	0				
	30 day mortality: 0.0% [0.0%-42.4%]				30 day mortality:				30 day mortality:				30 day mortality: 0.0% [0.0%-42.4%]				30 day mortality:							
12.34.70. Pacemaker wire procedure (unspecified)																								
<i>Invalid age: 0</i>	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0				
	30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality:				30 day mortality:				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality:							
12.35.13. Pulse generator box replacement																								
<i>Invalid age: 0</i>	21	20	0	1	0	0	0	0	0	0	0	0	16	16	0	0	5	4	0	1				
	30 day mortality: 0.0% [0.0%-24.9%]				30 day mortality:				30 day mortality:				30 day mortality: 0.0% [0.0%-29.3%]				30 day mortality: 0.0% [0.0%-62.4%]							

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	All Ages				Neonate (1-30 days)				Infant (31-365 days)				Child (1.0-16.0 years)				Adult (16 years+)							
	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU				
12.35.15. Isolated removal of implanted pulse generator																								
<i>Invalid age: 0</i>	2	2	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0				
	30 day mortality: 0.0% [0.0%-76.8%]				30 day mortality:				30 day mortality:				30 day mortality: 0.0% [0.0%-76.8%]				30 day mortality:							
12.35.16. Isolated removal of implanted pacemaker electrode																								
<i>Invalid age: 0</i>	10	9	1	0	0	0	0	0	0	0	0	0	6	5	1	0	4	4	0	0				
	30 day mortality: 10.0% [1.2%-50.7]				30 day mortality:				30 day mortality:				30 day mortality: 16.7% [2.0%-66.4%]				30 day mortality: 0.0% [0.0%-62.4%]							
12.35.48. Transluminal radiofrequency procedure for arrhythmia																								
<i>Invalid age: 0</i>	125	113	0	12	1	1	0	0	1	1	0	0	96	86	0	10	27	25	0	2				
	30 day mortality: 0.0% [0.0%-5.5%]				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality: 0.0% [0.0%-7.2%]				30 day mortality: 0.0% [0.0%-21.0%]							
12.36.14. Balloon dilation of cardiac conduit																								
<i>Invalid age: 0</i>	4	4	0	0	0	0	0	0	1	1	0	0	2	2	0	0	1	1	0	0				
	30 day mortality: 0.0% [0.0%-62.4%]				30 day mortality:				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality: 0.0% [0.0%-76.8%]				30 day mortality: 0.0% [0.0%-86.9%]							
12.42.31. Automatic cardioverter & defibrillator (AICD) implantation (unspecified)																								
<i>Invalid age: 0</i>	5	5	0	0	0	0	0	0	0	0	0	0	4	4	0	0	1	1	0	0				
	30 day mortality: 0.0% [0.0%-57.0%]				30 day mortality:				30 day mortality:				30 day mortality: 0.0% [0.0%-62.4%]				30 day mortality: 0.0% [0.0%-86.9%]							

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	All Ages				Neonate (1-30 days)				Infant (31-365 days)				Child (1.0-16.0 years)				Adult (16 years+)				
	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	
12.42.34. Automatic cardioverter & defibrillator (AICD) open removal																					
<i>Invalid age: 0</i>	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	30 day mortality: 0.0% [0.0%-86.9%]
	30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality:				30 day mortality:				30 day mortality: 0.0% [0.0%-86.9%]								
12.45.04. Transluminal retrieval of foreign body (unspecified)																					
<i>Invalid age: 0</i>	13	11	0	2	0	0	0	0	1	1	0	0	6	6	0	0	6	4	0	2	30 day mortality: 0.0% [0.0%-37.6%]
	30 day mortality: 0.0% [0.0%-37.6%]				30 day mortality:				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality: 0.0% [0.0%-52.5%]				30 day mortality: 0.0% [0.0%-62.4%]				
12.45.10. Stent redilation																					
<i>Invalid age: 0</i>	20	17	0	3	0	0	0	0	0	0	0	0	17	14	0	3	3	3	0	0	30 day mortality: 0.0% [0.0%-28.1%]
	30 day mortality: 0.0% [0.0%-28.1%]				30 day mortality:				30 day mortality:				30 day mortality: 0.0% [0.0%-32.2%]				30 day mortality: 0.0% [0.0%-68.9%]				
12.45.14. Transluminal coil embolisation																					
<i>Invalid age: 0</i>	33	31	0	2	1	1	0	0	2	2	0	0	23	22	0	1	7	6	0	1	30 day mortality: 0.0% [0.0%-17.6%]
	30 day mortality: 0.0% [0.0%-17.6%]				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality: 0.0% [0.0%-76.8%]				30 day mortality: 0.0% [0.0%-23.2%]				30 day mortality: 0.0% [0.0%-52.5%]				
99.99.99. Other procedure																					
<i>Invalid age: 0</i>	30	28	0	2	0	0	0	0	0	0	0	0	17	16	0	1	13	12	0	1	30 day mortality: 0.0% [0.0%-19.2%]
	30 day mortality: 0.0% [0.0%-19.2%]				30 day mortality:				30 day mortality:				30 day mortality: 0.0% [0.0%-29.3%]				30 day mortality: 0.0% [0.0%-35.6%]				

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	All Ages				Neonate (1-30 days)				Infant (31-365 days)				Child (1.0-16.0 years)				Adult (16 years +)			
	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
ACH. Alder Hey Hospital	235	231	3	1	32	30	1	1	42	40	2	0	150	150	0	0	11	11	0	0
<i>Invalid age: 0</i>	30 day mortality: 1.3% [0.3%-4.9%]				30 day mortality: 3.2% [0.4%-22.6%]				30 day mortality: 4.8% [0.9%-20.9%]				30 day mortality: 0.0% [0.0%-4.2%]				30 day mortality: 0.0% [0.0%-37.6%]			
BCH. Birmingham Childrens Hospital	270	267	1	2	14	14	0	0	48	46	1	1	205	204	0	1	3	3	0	0
<i>Invalid age: 0</i>	30 day mortality: 0.4% [0.0%-3.1%]				30 day mortality: 0.0% [0.0%-32.2%]				30 day mortality: 2.1% [0.3%-15.8%]				30 day mortality: 0.0% [0.0%-3.1%]				30 day mortality: 0.0% [0.0%-68.9%]			
BRC. Bristol Children's Hospital	184	152	2	30	23	13	1	9	17	16	0	1	109	93	1	15	35	30	0	5
<i>Invalid age: 0</i>	30 day mortality: 1.3% [0.3%-6.4%]				30 day mortality: 7.1% [0.8%-41.0%]				30 day mortality: 0.0% [0.0%-29.3%]				30 day mortality: 1.1% [0.1%-8.5%]				30 day mortality: 0.0% [0.0%-18.1%]			
FRE. Freeman Hospital	92	88	0	4	13	13	0	0	4	4	0	0	54	51	0	3	21	20	0	1
<i>Invalid age: 0</i>	30 day mortality: 0.0% [0.0%-7.0%]				30 day mortality: 0.0% [0.0%-33.8%]				30 day mortality: 0.0% [0.0%-62.4%]				30 day mortality: 0.0% [0.0%-11.5%]				30 day mortality: 0.0% [0.0%-24.9%]			
GRL. Glenfield Hospital	139	135	3	1	8	8	0	0	10	10	0	0	68	67	0	1	53	50	3	0
<i>Invalid age: 0</i>	30 day mortality: 2.2% [0.6%-8.2%]				30 day mortality: 0.0% [0.0%-45.3%]				30 day mortality: 0.0% [0.0%-39.9%]				30 day mortality: 0.0% [0.0%-9.0%]				30 day mortality: 5.7% [1.4%-19.7%]			
GUY. Guy's Hospital	217	164	2	51	15	6	1	8	20	18	0	2	127	94	1	32	55	46	0	9
<i>Invalid age: 0</i>	30 day mortality: 1.2% [0.2%-5.9%]				30 day mortality: 14.3% [1.7%-61.6%]				30 day mortality: 0.0% [0.0%-26.9%]				30 day mortality: 1.1% [0.1%-8.4%]				30 day mortality: 0.0% [0.0%-12.6%]			

Period covered: **01/04/2001** to **31/03/2002**

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Mortality reported at 30 DAYS POST-PROCEDURE.

Patient mortality has been tracked via the Office of National Statistics.

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	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
LGI. Leeds General Infirmary	162	142	3	17	21	19	2	0	18	17	0	1	88	84	1	3	35	22	0	13
<i>Invalid age: 0</i>	30 day mortality: 2.1% [0.5%-7.8%]				30 day mortality: 9.5% [1.9%-36.6%]				30 day mortality: 0.0% [0.0%-28.1%]				30 day mortality: 1.2% [0.1%-9.3%]				30 day mortality: 0.0% [0.0%-23.2%]			
NHB. Royal Brompton Hospital	324	280	1	43	21	15	0	6	34	29	0	5	132	116	1	15	137	120	0	17
<i>Invalid age: 0</i>	30 day mortality: 0.4% [0.0%-3.0%]				30 day mortality: 0.0% [0.0%-30.7%]				30 day mortality: 0.0% [0.0%-18.6%]				30 day mortality: 0.9% [0.1%-6.9%]				30 day mortality: 0.0% [0.0%-5.2%]			
QEB. Queen Elizabeth Hospital	32	24	0	8	0	0	0	0	0	0	0	0	0	0	0	0	32	24	0	8
<i>Invalid age: 0</i>	30 day mortality: 0.0% [0.0%-21.7%]				30 day mortality: #Num!				30 day mortality: #Num!				30 day mortality: #Num!				30 day mortality: 0.0% [0.0%-21.7%]			
RAD. John Radcliffe Infirmary	63	61	2	0	7	7	0	0	5	4	1	0	27	26	1	0	24	24	0	0
<i>Invalid age: 0</i>	30 day mortality: 3.2% [0.6%-14.6%]				30 day mortality: 0.0% [0.0%-48.7%]				30 day mortality: 20.0% [2.4%-71.8]				30 day mortality: 3.7% [0.4%-25.2%]				30 day mortality: 0.0% [0.0%-21.7%]			
RHS. Royal Hospital for Sick Children	165	160	0	5	15	13	0	2	32	30	0	2	116	116	0	0	2	1	0	1
<i>Invalid age: 0</i>	30 day mortality: 0.0% [0.0%-4.0%]				30 day mortality: 0.0% [0.0%-33.8%]				30 day mortality: 0.0% [0.0%-18.1%]				30 day mortality: 0.0% [0.0%-5.4%]				30 day mortality: 0.0% [0.0%-86.9%]			
RVB. Royal Victoria Hospital	56	46	0	10	1	1	0	0	9	9	0	0	34	27	0	7	12	9	0	3
<i>Invalid age: 0</i>	30 day mortality: 0.0% [0.0%-12.6%]				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality: 0.0% [0.0%-42.4%]				30 day mortality: 0.0% [0.0%-19.7%]				30 day mortality: 0.0% [0.0%-42.4%]			

Period covered: 01/04/2001 to 31/03/2002

"Deaths" are known mortalities no later than 30 days after operation, whether pre or post discharge.

Mortality reported at 30 DAYS POST-PROCEDURE.

Patient mortality has been tracked via the Office of National Statistics.

PROCEDURES FOR CONGENITAL HEART DISEASE

Annual Report

Society of Cardiothoracic Surgeons
of Great Britain and Ireland



British Paediatric
Cardiac Association

Data collated and reported by the Central Cardiac Audit Database

www.ccad.org.uk

Summary - Catheter Intervention by Hospital - All procedures

Range shown in brackets is 99% confidence interval for mortality (calculated using Wilson Score method). Sum of age categories may not equal "All ages" total due to occasional missing ages.

	All Ages				Neonate (1-30 days)				Infant (31-365 days)				Child (1.0-16.0 years)				Adult (16 years +)			
	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
SGH. Southampton General Hospital	71	61	0	10	9	7	0	2	14	14	0	0	23	20	0	3	24	19	0	5
<i>Invalid age: 1</i>	30 day mortality: 0.0% [0.0%-9.8%]				30 day mortality: 0.0% [0.0%-48.7%]				30 day mortality: 0.0% [0.0%-32.2%]				30 day mortality: 0.0% [0.0%-24.9%]				30 day mortality: 0.0% [0.0%-25.9%]			

Period covered: 01/04/2001 to 31/03/2002

"Deaths" are known mortalities no later than 30 days after operation, whether pre or post discharge.

Mortality reported at 30 DAYS POST-PROCEDURE.

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Data: www.ccad.org.uk/paed.nsf
Reference: www.ccad.org.uk
e-mail: david@minap.co.uk

Catheter Intervention Benchmark Procedures from: 01/04/2001 to 31/03/2002

Note 1. Range shown in brackets is 99% confidence interval for mortality (calculated using Wilson Score method).

Note 2. Records under "No FU" column represent those cases where reoperation took place within 30 days or no FU was available.

Note 3. "Deaths" are known mortalities no later than 30 days after operation, whether pre or post discharge.

		Procedures	Alive 30d	Deaths 30d	30 day mortality	99% C.I.	No 30 day FU
BCH. Birmingham Childrens Hospital	ASD closure (transluminal)	7	7	0	0.0%	[0.0%-48.7%]	0
FRE. Freeman Hospital	ASD closure (transluminal)	17	15	0	0.0%	[0.0%-30.7%]	2
GRL. Glenfield Hospital	ASD closure (transluminal)	25	24	0	0.0%	[0.0%-21.7%]	1
GUY. Guy's Hospital	ASD closure (transluminal)	1	1	0	0.0%	[0.0%-86.9%]	0
LGI. Leeds General Infirmary	ASD closure (transluminal)	26	16	0	0.0%	[0.0%-29.3%]	10
NHB. Royal Brompton Hospital	ASD closure (transluminal)	85	72	0	0.0%	[0.0%-8.4%]	13
QEB. Queen Elizabeth Hospital	ASD closure (transluminal)	22	17	0	0.0%	[0.0%-28.1%]	5
RAD. John Radcliffe Infirmary	ASD closure (transluminal)	1	1	0	0.0%	[0.0%-86.9%]	0
RHS. Royal Hospital for Sick Children	ASD closure (transluminal)	20	20	0	0.0%	[0.0%-24.9%]	0
SGH. Southampton General Hospital	ASD closure (transluminal)	18	14	0	0.0%	[0.0%-32.2%]	4
ACH. Alder Hey Hospital	Balloon pulmonary valve	36	35	1	2.8%	[0.3%-19.9%]	0
BCH. Birmingham Childrens Hospital	Balloon pulmonary valve	20	20	0	0.0%	[0.0%-24.9%]	0
BRC. Bristol Children's Hospital	Balloon pulmonary valve	18	12	0	0.0%	[0.0%-35.6%]	6

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Catheter Intervention Benchmark Procedures from: 01/04/2001 to 31/03/2002

Note 1. Range shown in brackets is 99% confidence interval for mortality (calculated using Wilson Score method).

Note 2. Records under "No FU" column represent those cases where reoperation took place within 30 days or no FU was available.

Note 3. "Deaths" are known mortalities no later than 30 days after operation, whether pre or post discharge.

		Procedures	Alive 30d	Deaths 30d	30 day mortality	99% C.I.	No 30 day FU
FRE. Freeman Hospital	Balloon pulmonary valve	9	9	0	0.0%	[0.0%-42.4%]	0
GRL. Glenfield Hospital	Balloon pulmonary valve	7	7	0	0.0%	[0.0%-48.7%]	0
GUY. Guy's Hospital	Balloon pulmonary valve	19	13	0	0.0%	[0.0%-33.8%]	6
LGI. Leeds General Infirmary	Balloon pulmonary valve	25	22	1	4.3%	[0.5%-28.6%]	2
NHB. Royal Brompton Hospital	Balloon pulmonary valve	22	20	0	0.0%	[0.0%-24.9%]	2
RAD. John Radcliffe Infirmary	Balloon pulmonary valve	3	3	0	0.0%	[0.0%-68.9%]	0
RHS. Royal Hospital for Sick Children	Balloon pulmonary valve	11	11	0	0.0%	[0.0%-37.6%]	0
RVB. Royal Victoria Hospital	Balloon pulmonary valve	10	10	0	0.0%	[0.0%-39.9%]	0
SGH. Southampton General Hospital	Balloon pulmonary valve	12	12	0	0.0%	[0.0%-35.6%]	0
ACH. Alder Hey Hospital	Duct closure (transluminal)	75	75	0	0.0%	[0.0%-8.1%]	0
BCH. Birmingham Childrens Hospital	Duct closure (transluminal)	73	73	0	0.0%	[0.0%-8.3%]	0
BRC. Bristol Children's Hospital	Duct closure (transluminal)	60	52	0	0.0%	[0.0%-11.3%]	8
FRE. Freeman Hospital	Duct closure (transluminal)	11	11	0	0.0%	[0.0%-37.6%]	0

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Catheter Intervention Benchmark Procedures from: 01/04/2001 to 31/03/2002

Note 1. Range shown in brackets is 99% confidence interval for mortality (calculated using Wilson Score method).

Note 2. Records under "No FU" column represent those cases where reoperation took place within 30 days or no FU was available.

Note 3. "Deaths" are known mortalities no later than 30 days after operation, whether pre or post discharge.

		Procedures	Alive 30d	Deaths 30d	30 day mortality	99% C.I.	No 30 day FU
GRL. Glenfield Hospital	Duct closure (transluminal)	15	15	0	0.0%	[0.0%-30.7%]	0
GUY. Guy's Hospital	Duct closure (transluminal)	79	65	0	0.0%	[0.0%-9.3%]	14
LGI. Leeds General Infirmary	Duct closure (transluminal)	56	55	0	0.0%	[0.0%-10.8%]	1
NHB. Royal Brompton Hospital	Duct closure (transluminal)	60	54	0	0.0%	[0.0%-10.9%]	6
RAD. John Radcliffe Infirmary	Duct closure (transluminal)	37	36	1	2.7%	[0.3%-19.5%]	0
RHS. Royal Hospital for Sick Children	Duct closure (transluminal)	41	41	0	0.0%	[0.0%-13.9%]	0
RVB. Royal Victoria Hospital	Duct closure (transluminal)	20	20	0	0.0%	[0.0%-24.9%]	0
SGH. Southampton General Hospital	Duct closure (transluminal)	15	13	0	0.0%	[0.0%-33.8%]	2

PAEDIATRIC CARDIAC PROCEDURES

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Period covered: 01/04/2001 to 31/03/2002 Report coverage:

Data Quality - Overall

Data Item	% complete	Surgery	Catheter	Notes
NHSNumber:	78.0%	78.0%	78.3%	
Sex:	99.4%	99.4%	99.5%	
Weight:	91.9%	91.9%	86.1%	A number of registered weights (~5%) exceeded normal limits by more than 3 SD. These have been flagged for confirmation by the centres. They have been excluded from this analysis.
DOB:	100.0%	100.0%	99.9%	
Postcode:	95.2%	95.2%	92.6%	
Procedure date:	100.0%	100.0%	100.0%	
Diagnosis:	99.6%	99.6%	97.0%	
Procedure:	99.4%	99.4%	97.9%	
Consultant:	96.5%	96.5%	95.4%	
Operator:	96.6%	96.6%	95.3%	
Operator grade:	96.3%	96.3%	94.9%	
Bypass/Non-Bypass/Catheter:	100.0%	100.0%	100.0%	
Operation sequence:	90.3%	90.3%	89.9%	
Date of discharge:	96.1%	96.1%	97.5%	
Status at discharge:	99.5%	99.5%	98.9%	

OVERALL: 97.2% 97.2% 96.1%

PAEDIATRIC CARDIAC PROCEDURES

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Period covered: 01/04/2001 to 31/03/2002 Report coverage:

* NHS numbers are not relevant in Scotland and Ireland. They are used in England for mortality tracking but are not included in the overall % data complete

Data Quality - by Individual Hospital		INTERVENTIONAL DATA																
Hospital	N	% data completeness															OVERALL	
		NHS Number	Sex:	Weight	DOB	Post Code	Procedure Date	Diagnosis	Procedure	Consultant	Operator	Grade	Closed/Open/Cath ⁷	Sequence	Discharge Date	Status at discharge		
ACH. Alder Hey Hospital	235	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
BCH. Birmingham Childrens Hospital	270	87%	100%	92%	100%	99%	100%	99%	90%	100%	100%	93%	100%	93%	100%	100%	100%	98%
BRC. Bristol Children's Hospital	184	84%	100%	86%	100%	100%	100%	99%	100%	100%	100%	100%	100%	100%	98%	100%	100%	99%
FRE. Freeman Hospital	93	95%	100%	100%	100%	100%	100%	95%	97%	84%	84%	100%	100%	94%	99%	100%	100%	97%
GRL. Glenfield Hospital	139	99%	100%	80%	100%	100%	100%	75%	100%	100%	100%	100%	100%	97%	99%	100%	100%	97%
GUY. Guy's Hospital	220	75%	100%	95%	99%	58%	100%	99%	100%	100%	99%	99%	100%	95%	88%	90%	100%	94%
LGI. Leeds General Infirmary	162	71%	94%	96%	100%	71%	100%	94%	99%	52%	53%	53%	100%	52%	100%	100%	100%	83%
NHB. Royal Brompton Hospital	324	88%	100%	47%	100%	98%	100%	100%	100%	100%	100%	100%	100%	77%	97%	100%	100%	94%
QEB. Queen Elizabeth Hospital	32	75%	100%	88%	100%	97%	100%	100%	100%	100%	100%	100%	100%	100%	94%	100%	100%	98%
RAD. John Radcliffe Infirmary	63	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	95%	100%	100%	100%
RHS. Royal Hospital for Sick Children	165	5%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	99%	100%	100%	100%
RVB. Royal Victoria Hospital	56	4%	100%	98%	100%	100%	100%	96%	80%	100%	100%	100%	100%	100%	100%	100%	100%	98%
SGH. Southampton General Hospital	71	93%	100%	85%	100%	100%	100%	100%	100%	100%	100%	93%	100%	80%	97%	100%	100%	97%