PROCEDURES FOR CONGENITAL HEART DISEASE

Annual Report

2000 - 2001

Society of Cardiothoracic Surgeons
of Great Britian and Ireland

British Paediatric
Cardiac Association

Data collated and reported by the Central Cardiac Audit Database

www.ccad.org.uk

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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	2,973	2,383	142	448	392	309	48	35	913	721	46	146	1,387	1,114	33	240	271	230	15	26
Invalid age: 10	30 day mortality: **5.6% [4.6%-6.9%]**				30 day mortality: **13.4% [9.5%-18.8%**				30 day mortality: **6.0% [4.1%-8.6%]**				30 day mortality: **2.9% [1.9%-4.4%]**				30 day mortality: **6.1% [3.2%-11.3%]**			
2. Non-bypass	1,038	867	40	131	405	334	18	53	389	329	19	41	211	176	3	32	27	24	0	3
Invalid age: 6	30 day mortality: **4.4% [3.0%-6.5%]**				30 day mortality: **5.1% [2.8%-9.1%]**				30 day mortality: **5.5% [3.1%-9.5%]**				30 day mortality: **1.7% [0.4%-6.4%]**				30 day mortality: **0.0% [0.0%-21.7%]**			
All surgery:	4,011	3,250	182	579	797	643	66	88	1,302	1,050	65	187	1,598	1,290	36	272	298	254	15	29
Invalid age: 16	30 day mortality: **5.3% [4.4%-6.4%]**				30 day mortality: **9.3% [6.9%-12.5%]**				30 day mortality: **5.8% [4.3%-7.9%]**				30 day mortality: **2.7% [1.8%-4.1%]**				30 day mortality: **5.6% [2.9%-10.4%]**			

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

Period covered: **01/04/2000** to **31/03/2001**

Mortality reported at 30 DAYS POST-PROCEDURE.

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

Hospital	Surgical Procedures
ACH. Alder Hey Hospital	5
ACH. Alder Hey Hospital	113
ACH. Alder Hey Hospital	137
ACH. Alder Hey Hospital	92
BCH. Birmingham Childrens Hospital	33
BCH. Birmingham Childrens Hospital	209
BCH. Birmingham Childrens Hospital	138
BCH. Birmingham Childrens Hospital	113
BRC. Bristol Children's Hospital	38
BRC. Bristol Children's Hospital	83
BRC. Bristol Children's Hospital	76
BRC. Bristol Children's Hospital	49

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Cardiac Surgical Benchmark Procedures From: **01/04/2000** to **31/03/2001**

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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	127	103	5	19	110	96	4	10	13	5	1	7	3	1	0	2	0	0	0	
Invalid age: 1	30 day mortality: 4.6% [1.6%-13.0%				30 day mortality: 4.0% [1.2%-12.5%]				30 day mortality: 16.7% [2.0%-66.4%				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality:			
ASD closure (surgical)	582	522	6	54	4	4	0	0	22	18	0	4	426	380	2	44	126	116	4	6
Invalid age: 4	30 day mortality: 1.1% [0.4%-3.1%]				30 day mortality: 0.0% [0.0%-62.4%]				30 day mortality: 0.0% [0.0%-26.9%]				30 day mortality: 0.5% [0.1%-2.6%]				30 day mortality: 3.3% [1.0%-10.6%]			
AVSD (complete) repair	117	95	1	21	5	5	0	0	95	80	1	14	17	10	0	7	0	0	0	
Invalid age: 0	30 day mortality: 1.0% [0.1%-8.3%]				30 day mortality: 0.0% [0.0%-57.0%]				30 day mortality: 1.2% [0.1%-9.7%]				30 day mortality: 0.0% [0.0%-39.9%]				30 day mortality:			
Coarct repair	582	522	8	52	284	248	8	28	130	120	0	10	132	122	0	10	32	28	0	4
Invalid age: 4	30 day mortality: 1.5% [0.6%-3.6%]				30 day mortality: 3.1% [1.3%-7.3%]				30 day mortality: 0.0% [0.0%-5.2%]				30 day mortality: 0.0% [0.0%-5.2%]				30 day mortality: 0.0% [0.0%-19.2%]			
Tetralogy repair	232	173	5	54	2	2	0	0	92	71	3	18	138	100	2	36	0	0	0	
Invalid age: 0	30 day mortality: 2.8% [0.9%-8.1%]				30 day mortality: 0.0% [0.0%-76.8%]				30 day mortality: 4.1% [1.0%-14.6%]				30 day mortality: 2.0% [0.4%-9.4%]				30 day mortality:			
VSD closure (surgical)	698	550	8	140	12	8	0	4	526	428	6	92	148	104	2	42	12	10	0	2
Invalid age: 0	30 day mortality: 1.4% [0.6%-3.4%]				30 day mortality: 0.0% [0.0%-45.3%]				30 day mortality: 1.4% [0.5%-3.7%]				30 day mortality: 1.9% [0.4%-9.1%]				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 30	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**																				
Invalid age: 2	273	244	3	26	2	2	0	0	13	11	0	2	195	173	1	21	61	56	2	3
	30 day mortality:		1.2% [0.3%-4.7%]		30 day mortality:		0.0% [0.0%-76.8%]		30 day mortality:		0.0% [0.0%-37.6%]		30 day mortality:		0.6% [0.1%-4.7%]		30 day mortality:		3.4% [0.7%-15.8%]	
12.01.10 Sinus venosus ASD closure — Predicted risk: **1. Low**																				
Invalid age: 0	30	27	1	2	0	0	0		0	0	0		27	24	1	2	3	3	0	0
	30 day mortality:		3.6% [0.4%-24.5%]		30 day mortality:				30 day mortality:				30 day mortality:		4.0% [0.5%-26.8%]		30 day mortality:		0.0% [0.0%-68.9%]	
12.24.20 Patent arterial duct (PDA) closure - open — Predicted risk: **1. Low**																				
Invalid age: 0	234	172	19	43	100	67	9	24	120	92	10	18	14	13	0	1	0	0	0	
	30 day mortality:		9.9% [5.6%-16.9%]		30 day mortality:		11.8% [5.3%-24.6%		30 day mortality:		9.8% [4.5%-20.0%]		30 day mortality:		0.0% [0.0%-33.8%]		30 day mortality:			
12.32.40 Pericardiocentesis — Predicted risk: **1. Low**																				
Invalid age: 0	17	15	1	1	0	0	0		4	4	0	0	10	9	1	0	3	2	0	1
	30 day mortality:		6.3% [0.7%-37.4%]		30 day mortality:				30 day mortality:		0.0% [0.0%-62.4%]		30 day mortality:		10.0% [1.2%-50.7%]		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 30	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**																				
Invalid age: 0	53	45	1	7	8	8	0	0	13	12	0	1	30	23	1	6	2	2	0	0
	30 day mortality: **2.2% [0.3%-16.1%]**				30 day mortality: **0.0% [0.0%-45.3%]**				30 day mortality: **0.0% [0.0%-35.6%]**				30 day mortality: **4.2% [0.5%-27.7%]**				30 day mortality: **0.0% [0.0%-76.8%]**			
12.34.70 Pacemaker wire procedure (unspecified) — Predicted risk: **1. Low**																				
Invalid age: 0	4	4	0	0	0	0	0		0	0	0		3	3	0	0	1	1	0	0
	30 day mortality: **0.0% [0.0%-62.4%]**				30 day mortality:				30 day mortality:				30 day mortality: **0.0% [0.0%-68.9%]**				30 day mortality: **0.0% [0.0%-86.9%]**			
12.35.13 Pulse generator box replacement — Predicted risk: **1. Low**																				
Invalid age: 0	11	11	0	0	0	0	0		0	0	0		8	8	0	0	3	3	0	0
	30 day mortality: **0.0% [0.0%-37.6%]**				30 day mortality:				30 day mortality:				30 day mortality: **0.0% [0.0%-45.3%]**				30 day mortality: **0.0% [0.0%-68.9%]**			
12.35.15 Isolated removal of implanted pulse generator — Predicted risk: **1. Low**																				
Invalid age: 0	5	5	0	0	0	0	0		0	0	0		5	5	0	0	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:			

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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 30	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
12.35.16	Isolated removal of implanted pacemaker electrode — Predicted risk: **1. Low**	2	2	0	0	0	0	0		0	0	0		2	2	0	0	0	0	0	
Invalid age: 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:			
12.00.02	Partially APVC repair (unspecified) — Predicted risk: **2. Low-Moderate**	15	14	0	1	2	2	0	0	4	4	0	0	8	7	0	1	1	1	0	0
Invalid age: 0		30 day mortality: **0.0% [0.0%-32.2%]**				30 day mortality: **0.0% [0.0%-76.8%]**				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%-86.9%]**			
12.01.22	Atrial septation procedure — Predicted risk: **2. Low-Moderate**	2	2	0	0	1	1	0	0	1	1	0	0	0	0	0		0	0	0	
Invalid age: 0		30 day mortality: **0.0% [0.0%-76.8%]**				30 day mortality: **0.0% [0.0%-86.9%]**				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**	17	10	4	3	2	1	0	1	15	9	4	2	0	0	0		0	0	0	
Invalid age: 0		30 day mortality: **28.6% [8.9%-62.0%**				30 day mortality: **0.0% [0.0%-86.9%]**				30 day mortality: **30.8% [9.7%-64.9%]**				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 30	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
12.04.01 AVSD: partial (primum ASD) repair — Predicted risk: **2. Low-Moderate**																				
Invalid age: 0	92	87	0	5	0	0	0		16	14	0	2	55	53	0	2	21	20	0	1
	30 day mortality: **0.0% [0.0%-7.1%]**				30 day mortality:				30 day mortality: **0.0% [0.0%-32.2%]**				30 day mortality: **0.0% [0.0%-11.1%]**				30 day mortality: **0.0% [0.0%-24.9%]**			
12.08.01 VSD closure (unspecified) — Predicted risk: **2. Low-Moderate**																				
Invalid age: 0	387	302	9	76	14	8	2	4	278	225	5	48	88	63	2	23	7	6	0	1
	30 day mortality: **2.9% [1.3%-6.5%]**				30 day mortality: **20.0% [4.0%-59.9%**				30 day mortality: **2.2% [0.7%-6.3%]**				30 day mortality: **3.1% [0.6%-14.2%]**				30 day mortality: **0.0% [0.0%-52.5%]**			
12.12.01 Aortopulmonary window closure (unspecified) — Predicted risk: **2. Low-Moderate**																				
Invalid age: 0	7	6	0	1	1	1	0	0	6	5	0	1	0	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%-57.0%]**				30 day mortality:				30 day mortality:			
12.13.02 Pulmonary valvotomy - open — Predicted risk: **2. Low-Moderate**																				
Invalid age: 0	19	17	1	1	4	3	1	0	3	3	0	0	10	9	0	1	2	2	0	0
	30 day mortality: **5.6% [0.7%-34.4%]**				30 day mortality: **25.0% [3.0%-78.2%**				30 day mortality: **0.0% [0.0%-68.9%]**				30 day mortality: **0.0% [0.0%-42.4%]**				30 day mortality: **0.0% [0.0%-76.8%]**			

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	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
12.14.01 Pulmonary trunk arterioplasty — Predicted risk: **2. Low-Moderate**																				
Invalid age: 0	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:			
12.14.02 Pulmonary trunk band (PA band) — Predicted risk: **2. Low-Moderate**																				
Invalid age: 3	116	105	4	7	33	30	1	2	71	65	3	3	9	7	0	2	0	0	0	
	30 day mortality: **3.7% [1.1%-11.6%]**				30 day mortality: **3.2% [0.4%-22.6%]**				30 day mortality: **4.4% [1.1%-15.8%]**				30 day mortality: **0.0% [0.0%-48.7%]**				30 day mortality:			
12.14.03 Pulmonary trunk band removal (de-band) — Predicted risk: **2. Low-Moderate**																				
Invalid age: 0	12	8	1	3	0	0	0		8	5	0	3	4	3	1	0	0	0	0	
	30 day mortality: **11.1% [1.3%-53.9%**				30 day mortality:				30 day mortality: **0.0% [0.0%-57.0%]**				30 day mortality: **25.0% [3.0%-78.2%]**				30 day mortality:			
12.14.20 Pulmonary arterioplasty / reconstruction (unspecified) — Predicted risk: **2. Low-Moderate**																				
Invalid age: 0	36	29	3	4	1	1	0	0	6	4	2	0	25	20	1	4	4	4	0	0
	30 day mortality: **9.4% [2.4%-30.3%]**				30 day mortality: **0.0% [0.0%-86.9%]**				30 day mortality: **33.3% [6.8%-77.3%]**				30 day mortality: **4.8% [0.6%-30.7%]**				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 30	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
12.17.11 Vascular ring procedure (unspecified) — Predicted risk: **2. Low-Moderate**																				
Invalid age: 0	18	15	0	3	1	1	0	0	10	7	0	3	7	7	0	0	0	0	0	
	30 day mortality: **0.0% [0.0%-30.7%]**				30 day mortality: **0.0% [0.0%-86.9%]**				30 day mortality: **0.0% [0.0%-48.7%]**				30 day mortality: **0.0% [0.0%-48.7%]**				30 day mortality:			
12.18.02 Repair of aortic coarct/hypoplasia by patch aortoplasty — Predicted risk: **2. Low-Moderate**																				
Invalid age: 0	25	22	0	3	3	3	0	0	2	2	0	0	9	8	0	1	11	9	0	2
	30 day mortality: **0.0% [0.0%-23.2%]**				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%-45.3%]**				30 day mortality: **0.0% [0.0%-42.4%]**			
12.18.03 Repair of aortic coarct/hypoplasia by subclavian flap aortoplasty — Predicted risk: **2. Low-Moderate**																				
Invalid age: 0	79	73	3	3	57	51	3	3	17	17	0	0	5	5	0	0	0	0	0	
	30 day mortality: **3.9% [1.0%-14.3%]**				30 day mortality: **5.6% [1.4%-19.4%]**				30 day mortality: **0.0% [0.0%-28.1%]**				30 day mortality: **0.0% [0.0%-57.0%]**				30 day mortality:			
12.18.10 Repair of aortic coarct/hypoplasia by extended resection & end/end anast — Predicted risk: **2. Low-Moderate**																				
Invalid age: 0	185	165	4	16	96	83	2	11	44	40	1	3	43	40	1	2	2	2	0	0
	30 day mortality: **2.4% [0.7%-7.6%]**				30 day mortality: **2.4% [0.5%-11.1%]**				30 day mortality: **2.4% [0.3%-17.8%]**				30 day mortality: **2.4% [0.3%-17.8%]**				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 30	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
12.23.07 Coronary fistula procedure (unspecified) — Predicted risk: **2. Low-Moderate**																				
Invalid age: 0	4	4	0	0	0	0	0		3	3	0	0	0	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%-68.9%]**				30 day mortality:				30 day mortality: **0.0% [0.0%-86.9%]**			
12.32.09 Pericardiectomy — Predicted risk: **2. Low-Moderate**																				
Invalid age: 0	3	3	0	0	0	0	0		0	0	0		3	3	0	0	0	0	0	
	30 day mortality: **0.0% [0.0%-68.9%]**				30 day mortality:				30 day mortality:				30 day mortality: **0.0% [0.0%-68.9%]**				30 day mortality:			
12.42.31 Automatic cardioverter & defibrillator (AICD) implantation (unspecified) — Predicted risk: **2. Low-Moderate**																				
Invalid age: 0	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%]**			
12.65.13 Pectus carinatum repair — Predicted risk: **2. Low-Moderate**																				
Invalid age: 0	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 30	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
12.00.81 Anomalous systemic venous connection repair — Predicted risk: **3. Moderate**																				
Invalid age: 0	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:			
12.01.31 Cor triatriatum (divided LA) repair — Predicted risk: **3. Moderate**																				
Invalid age: 0	9	7	0	2	3	2	0	1	2	1	0	1	4	4	0	0	0	0	0	
	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%-86.9%]**				30 day mortality: **0.0% [0.0%-62.4%]**				30 day mortality:			
12.02.02 Tricuspid leaflet procedure (valvoplasty) — Predicted risk: **3. Moderate**																				
Invalid age: 0	12	10	1	1	0	0	0		2	2	0	0	7	5	1	1	3	3	0	0
	30 day mortality: **9.1% [1.1%-47.9%]**				30 day mortality:				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%-68.9%]**			
12.02.09 Repair of Ebstein's malformation of tricuspid valve — Predicted risk: **3. Moderate**																				
Invalid age: 0	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%]**			

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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 30	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
12.02.11 Tricuspid valvar replacement (unspecified) — Predicted risk: **3. Moderate**																				
Invalid age: 0	9	4	1	4	0	0	0		0	0	0		4	1	0	3	5	3	1	1
	30 day mortality: **20.0% [2.4%-71.8%**				30 day mortality:				30 day mortality:				30 day mortality: **0.0% [0.0%-86.9%]**				30 day mortality: **25.0% [3.0%-78.2%]**			
12.03.11 Mitral valvar replacement (unspecified) — Predicted risk: **3. Moderate**																				
Invalid age: 0	37	31	4	2	2	1	1	0	9	7	1	1	16	14	2	0	10	9	0	1
	30 day mortality: **11.4% [3.5%-31.7%**				30 day mortality: **50.0% [6.2%-93.8%**				30 day mortality: **12.5% [1.5%-57.5%]**				30 day mortality: **12.5% [2.5%-44.5%]**				30 day mortality: **0.0% [0.0%-42.4%]**			
12.06.01 RV outflow tract muscle resection / division — Predicted risk: **3. Moderate**																				
Invalid age: 0	53	47	1	5	0	0	0		14	13	0	1	37	32	1	4	2	2	0	0
	30 day mortality: **2.1% [0.2%-15.6%]**				30 day mortality:				30 day mortality: **0.0% [0.0%-33.8%]**				30 day mortality: **3.0% [0.4%-21.4%]**				30 day mortality: **0.0% [0.0%-76.8%]**			
12.06.04 RV outflow tract dilation patch placement (PV intact) — Predicted risk: **3. Moderate**																				
Invalid age: 0	37	33	1	3	2	2	0	0	10	8	1	1	25	23	0	2	0	0	0	
	30 day mortality: **2.9% [0.3%-20.9%]**				30 day mortality: **0.0% [0.0%-76.8%]**				30 day mortality: **11.1% [1.3%-53.9%]**				30 day mortality: **0.0% [0.0%-22.4%]**				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+)			
	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
12.07.13 LV outflow tract obstruction relief — Predicted risk: **3. Moderate**																				
Invalid age: 0	89	79	0	10	0	0	0		6	5	0	1	75	66	0	9	8	8	0	0
	30 day mortality: **0.0% [0.0%-7.7%]**				30 day mortality:				30 day mortality: **0.0% [0.0%-57.0%]**				30 day mortality: **0.0% [0.0%-9.1%]**				30 day mortality: **0.0% [0.0%-45.3%]**			
12.13.21 Pulmonary valvar replacement (not conduit) — Predicted risk: **3. Moderate**																				
Invalid age: 0	14	12	0	2	0	0	0		0	0	0		7	6	0	1	7	6	0	1
	30 day mortality: **0.0% [0.0%-35.6%]**				30 day mortality:				30 day mortality:				30 day mortality: **0.0% [0.0%-52.5%]**				30 day mortality: **0.0% [0.0%-52.5%]**			
12.16.21 Aortic valvar replacement (unspecified) — Predicted risk: **3. Moderate**																				
Invalid age: 2	39	36	1	2	0	0	0		0	0	0		18	16	0	2	19	18	1	0
	30 day mortality: **2.7% [0.3%-19.5%]**				30 day mortality:				30 day mortality:				30 day mortality: **0.0% [0.0%-29.3%]**				30 day mortality: **5.3% [0.6%-33.1%]**			
12.16.40 Supravalvar aortic stenosis repair (unspecified) — Predicted risk: **3. Moderate**																				
Invalid age: 0	15	13	0	2	0	0	0		5	5	0	0	8	6	0	2	2	2	0	0
	30 day mortality: **0.0% [0.0%-33.8%]**				30 day mortality:				30 day mortality: **0.0% [0.0%-57.0%]**				30 day mortality: **0.0% [0.0%-52.5%]**				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 30	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
12.23.08 Coronary arterial bypass graft (CABG) procedure (unspecified) — Predicted risk: **3. Moderate**																				
Invalid age: 0	2	2	0	0	0	0	0		1	1	0	0	0	0	0		1	1	0	0
	30 day mortality: **0.0% [0.0%-76.8%]**				30 day mortality:				30 day mortality: **0.0% [0.0%-86.9%]**				30 day mortality:				30 day mortality: **0.0% [0.0%-86.9%]**			
12.25.18 Major aorto-pulmonary collateral artery (MAPCA) ligation — Predicted risk: **3. Moderate**																				
Invalid age: 0	6	6	0	0	0	0	0		1	1	0	0	5	5	0	0	0	0	0	
	30 day mortality: **0.0% [0.0%-52.5%]**				30 day mortality:				30 day mortality: **0.0% [0.0%-86.9%]**				30 day mortality: **0.0% [0.0%-57.0%]**				30 day mortality:			
12.31.01 Classical R Blalock (RSCA-RPA) anastomosis — Predicted risk: **3. Moderate**																				
Invalid age: 0	6	6	0	0	4	4	0	0	2	2	0	0	0	0	0		0	0	0	
	30 day mortality: **0.0% [0.0%-52.5%]**				30 day mortality: **0.0% [0.0%-62.4%]**				30 day mortality: **0.0% [0.0%-76.8%]**				30 day mortality:				30 day mortality:			
12.31.03 Modified R Blalock interposition shunt — Predicted risk: **3. Moderate**																				
Invalid age: 0	207	191	6	10	85	76	5	4	86	82	0	4	36	33	1	2	0	0	0	
	30 day mortality: **3.0% [1.1%-8.0%]**				30 day mortality: **6.2% [2.1%-16.9%]**				30 day mortality: **0.0% [0.0%-7.5%]**				30 day mortality: **2.9% [0.3%-20.9%]**				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 30	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
12.31.05 Waterston (ascending Ao-RPA) anastomosis — Predicted risk: **3. Moderate**																				
Invalid age: 0	51	36	10	5	16	14	2	0	13	7	5	1	20	14	2	4	2	1	1	0
	30 day mortality: 21.7% [10.2%-40.4				30 day mortality: 12.5% [2.5%-44.5%				30 day mortality: 41.7% [15.1%-74.2%				30 day mortality: 12.5% [2.5%-44.5%]				30 day mortality: 50.0% [6.2%-93.8%]			
12.31.30 Systemic to pulmonary arterial shunt procedure (unspecified) — Predicted risk: **3. Moderate**																				
Invalid age: 0	54	24	1	29	15	9	0	6	13	7	1	5	24	6	0	18	2	2	0	0
	30 day mortality: 4.0% [0.5%-26.8%]				30 day mortality: 0.0% [0.0%-42.4%]				30 day mortality: 12.5% [1.5%-57.5%]				30 day mortality: 0.0% [0.0%-52.5%]				30 day mortality: 0.0% [0.0%-76.8%]			
12.31.44 Bilateral bidirectional superior cavopulmonary (Glenn) anastomoses — Predicted risk: **3. Moderate**																				
Invalid age: 2	183	149	2	32	0	0	0		78	64	0	14	101	82	2	17	2	1	0	1
	30 day mortality: 1.3% [0.3%-6.5%]				30 day mortality:				30 day mortality: 0.0% [0.0%-9.4%]				30 day mortality: 2.4% [0.5%-11.3%]				30 day mortality: 0.0% [0.0%-86.9%]			
12.36.01 RV to pulmonary tree conduit construction (unspecified) — Predicted risk: **3. Moderate**																				
Invalid age: 0	65	53	2	10	0	0	0		5	3	0	2	45	37	2	6	15	13	0	2
	30 day mortality: 3.6% [0.7%-16.5%]				30 day mortality:				30 day mortality: 0.0% [0.0%-68.9%]				30 day mortality: 5.1% [1.0%-22.3%]				30 day mortality: 0.0% [0.0%-33.8%]			

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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 30	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
12.87.22	RV assist device implantation — Predicted risk: **3. Moderate**																				
Invalid age: 0		6	6	0	0	0	0	0		2	2	0	0	4	4	0	0	0	0	0	
		30 day mortality: **0.0% [0.0%-52.5%]**				30 day mortality:				30 day mortality: **0.0% [0.0%-76.8%]**				30 day mortality: **0.0% [0.0%-62.4%]**				30 day mortality:			
12.00.00	TAPVC repair (unspecified) — Predicted risk: **4. High**																				
Invalid age: 0		81	62	9	10	32	25	5	2	37	28	3	6	11	8	1	2	1	1	0	0
		30 day mortality: **12.7% [5.6%-26.1%**				30 day mortality: **16.7% [5.7%-39.7%**				30 day mortality: **9.7% [2.5%-31.1%]**				30 day mortality: **11.1% [1.3%-53.9%]**				30 day mortality: **0.0% [0.0%-86.9%]**			
12.01.32	Supra-mitral valvar LA-ring excision — Predicted risk: **4. High**																				
Invalid age: 0		5	3	0	2	0	0	0		0	0	0		5	3	0	2	0	0	0	
		30 day mortality: **0.0% [0.0%-68.9%]**				30 day mortality:				30 day mortality:				30 day mortality: **0.0% [0.0%-68.9%]**				30 day mortality:			
12.03.03	Mitral leaflet procedure (valvoplasty) — Predicted risk: **4. High**																				
Invalid age: 0		60	51	5	4	5	3	2	0	11	9	2	0	37	32	1	4	7	7	0	0
		30 day mortality: **8.9% [3.0%-23.5%]**				30 day mortality: **40.0% [8.3%-83.1%**				30 day mortality: **18.2% [3.6%-56.7%]**				30 day mortality: **3.0% [0.4%-21.4%]**				30 day mortality: **0.0% [0.0%-48.7%]**			

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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 30	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
12.05.01 AVSD: complete (common valve orifice) repair — Predicted risk: **4. High**																				
Invalid age: 0	139	110	2	27	6	6	0	0	103	87	1	15	30	17	1	12	0	0	0	
	30 day mortality: **1.8% [0.3%-8.6%]**				30 day mortality: **0.0% [0.0%-52.5%]**				30 day mortality: **1.1% [0.1%-9.0%]**				30 day mortality: **5.6% [0.7%-34.4%]**				30 day mortality:			
12.08.06 VSD enlargement — Predicted risk: **4. High**																				
Invalid age: 0	2	1	0	1	0	0	0		0	0	0		2	1	0	1	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:			
12.08.16 Closure of multiple VSDs — Predicted risk: **4. High**																				
Invalid age: 0	13	12	1	0	0	0	0		6	6	0	0	7	6	1	0	0	0	0	
	30 day mortality: **7.7% [0.9%-43.1%]**				30 day mortality:				30 day mortality: **0.0% [0.0%-52.5%]**				30 day mortality: **14.3% [1.7%-61.6%]**				30 day mortality:			
12.09.03 Damus-Kaye-Stansel type procedure: pulm trunk to aorta end/side anastomosis — Predicted risk: **4. High**																				
Invalid age: 0	27	23	2	2	3	2	0	1	12	9	2	1	12	12	0	0	0	0	0	
	30 day mortality: **8.0% [1.6%-32.0%]**				30 day mortality: **0.0% [0.0%-76.8%]**				30 day mortality: **18.2% [3.6%-56.7%]**				30 day mortality: **0.0% [0.0%-35.6%]**				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 30	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
12.16.02 Aortic valvotomy - open — Predicted risk: **4. High**																				
Invalid age: 0	30	23	4	3	16	12	3	1	5	5	0	0	9	6	1	2	0	0	0	
	30 day mortality: **14.8% [4.5%-39.0%**				30 day mortality: **20.0% [5.2%-53.2%**				30 day mortality: **0.0% [0.0%-57.0%]**				30 day mortality: **14.3% [1.7%-61.6%]**				30 day mortality:			
12.16.11 Aortic valvoplasty — Predicted risk: **4. High**																				
Invalid age: 0	32	26	0	6	0	0	0		3	3	0	0	25	19	0	6	4	4	0	0
	30 day mortality: **0.0% [0.0%-20.3%]**				30 day mortality:				30 day mortality: **0.0% [0.0%-68.9%]**				30 day mortality: **0.0% [0.0%-25.9%]**				30 day mortality: **0.0% [0.0%-62.4%]**			
12.16.33 Aortic valvar & asc aorta replacement + coronary artery inclusion (Bentall) — Predicted risk: **4. High**																				
Invalid age: 0	24	15	2	7	0	0	0		0	0	0		5	4	0	1	19	11	2	6
	30 day mortality: **11.8% [2.3%-42.7%**				30 day mortality:				30 day mortality:				30 day mortality: **0.0% [0.0%-62.4%]**				30 day mortality: **15.4% [3.1%-51.1%]**			
12.16.42 Ascending aorta aneurysm repair — Predicted risk: **4. High**																				
Invalid age: 0	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:			

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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 30	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
12.16.90 Aorto-LV tunnel closure (unspecified) — Predicted risk: **4. High**																				
Invalid age: 0	3	3	0	0	1	1	0	0	0	0	0		2	2	0	0	0	0	0	
	30 day mortality: **0.0% [0.0%-68.9%]**				30 day mortality: **0.0% [0.0%-86.9%]**				30 day mortality:				30 day mortality: **0.0% [0.0%-76.8%]**				30 day mortality:			
12.17.33 PA sling repair: transection of trachea & translocate LPA anterior to trachea — Predicted risk: **4. High**																				
Invalid age: 0	2	2	0	0	0	0	0		2	2	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:				30 day mortality:			
12.18.00 Coarctation / hypoplasia of aorta repair (unspecified) — Predicted risk: **4. High**																				
Invalid age: 2	48	37	2	9	19	16	1	2	10	6	0	4	12	9	0	3	5	4	1	0
	30 day mortality: **5.1% [1.0%-22.3%]**				30 day mortality: **5.9% [0.7%-35.8%]**				30 day mortality: **0.0% [0.0%-52.5%]**				30 day mortality: **0.0% [0.0%-42.4%]**				30 day mortality: **20.0% [2.4%-71.8%]**			
12.23.00 Anomalous coronary artery (eg ALCAPA) repair (unspecified) — Predicted risk: **4. High**																				
Invalid age: 0	14	11	2	1	0	0	0		11	9	1	1	1	1	0	0	2	1	1	0
	30 day mortality: **15.4% [3.1%-51.1%**				30 day mortality:				30 day mortality: **10.0% [1.2%-50.7%]**				30 day mortality: **0.0% [0.0%-86.9%]**				30 day mortality: **50.0% [6.2%-93.8%]**			

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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 30	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
12.26.01 Tetralogy of Fallot repair (unspecified) — Predicted risk: **4. High**																				
Invalid age: 0	255	190	10	55	2	2	0	0	103	78	7	18	150	110	3	37	0	0	0	
	30 day mortality: **5.0% [2.3%-10.6%]**				30 day mortality: **0.0% [0.0%-76.8%]**				30 day mortality: **8.2% [3.3%-19.3%]**				30 day mortality: **2.7% [0.7%-9.9%]**				30 day mortality:			
12.28.01 Pulmonary atresia & VSD (Fallot-type) repair — Predicted risk: **4. High**																				
Invalid age: 0	32	27	1	4	2	2	0	0	6	5	1	0	23	19	0	4	1	1	0	0
	30 day mortality: **3.6% [0.4%-24.5%]**				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%-25.9%]**				30 day mortality: **0.0% [0.0%-86.9%]**			
12.29.02 Mustard procedure (atrial inversion) — Predicted risk: **4. High**																				
Invalid age: 0	3	2	0	1	0	0	0		2	1	0	1	1	1	0	0	0	0	0	
	30 day mortality: **0.0% [0.0%-76.8%]**				30 day mortality:				30 day mortality: **0.0% [0.0%-86.9%]**				30 day mortality: **0.0% [0.0%-86.9%]**				30 day mortality:			
12.29.11 Rastelli procedure: LV to Ao via VSD & RV to pulm trunk conduit — Predicted risk: **4. High**																				
Invalid age: 0	22	15	1	6	0	0	0		0	0	0		20	14	0	6	2	1	1	0
	30 day mortality: **6.3% [0.7%-37.4%]**				30 day mortality:				30 day mortality:				30 day mortality: **0.0% [0.0%-32.2%]**				30 day mortality: **50.0% [6.2%-93.8%]**			

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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 30	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
12.29.21 Arterial switch procedure (unspecified) — Predicted risk: **4. High**																				
Invalid age: 1	176	138	10	28	140	118	6	16	27	16	2	9	8	3	2	3	0	0	0	
	30 day mortality: **6.8% [3.1%-14.1%]**				30 day mortality: **4.8% [1.8%-12.5%]**				30 day mortality: **11.1% [2.2%-41.0%]**				30 day mortality: **40.0% [8.3%-83.1%]**				30 day mortality:			
12.30.01 Fontan type procedure (unspecified) — Predicted risk: **4. High**																				
Invalid age: 0	32	17	0	15	0	0	0		0	0	0		32	17	0	15	0	0	0	
	30 day mortality: **0.0% [0.0%-28.1%]**				30 day mortality:				30 day mortality:				30 day mortality: **0.0% [0.0%-28.1%]**				30 day mortality:			
12.30.54 Total cavo-pulmonary conn (TCPC) using extracardiac IVC-PA conduit — Predicted risk: **4. High**																				
Invalid age: 0	88	70	2	16	0	0	0		0	0	0		81	65	2	14	7	5	0	2
	30 day mortality: **2.8% [0.5%-13.0%]**				30 day mortality:				30 day mortality:				30 day mortality: **3.0% [0.6%-13.9%]**				30 day mortality: **0.0% [0.0%-57.0%]**			
12.32.20 Removal of cardiac vegetations (unspecified) — Predicted risk: **4. High**																				
Invalid age: 0	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:			

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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 30	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
12.35.40 Arrhythmia surgical procedure (unspecified) — Predicted risk: **4. High**																				
Invalid age: 0	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%]**			
12.36.00 Conduit construction procedure (unspecified) — Predicted risk: **4. High**																				
Invalid age: 0	20	19	0	1	3	3	0	0	3	3	0	0	9	8	0	1	5	5	0	0
	30 day mortality: **0.0% [0.0%-25.9%]**				30 day mortality: **0.0% [0.0%-68.9%]**				30 day mortality: **0.0% [0.0%-68.9%]**				30 day mortality: **0.0% [0.0%-45.3%]**				30 day mortality: **0.0% [0.0%-57.0%]**			
12.37.02 Transplantation of heart - orthotopic allotransplant — Predicted risk: **4. High**																				
Invalid age: 0	16	16	0	0	0	0	0		3	3	0	0	12	12	0	0	1	1	0	0
	30 day mortality: **0.0% [0.0%-29.3%]**				30 day mortality:				30 day mortality: **0.0% [0.0%-68.9%]**				30 day mortality: **0.0% [0.0%-35.6%]**				30 day mortality: **0.0% [0.0%-86.9%]**			
12.00.03 Pulmonary vein stenosis repair — Predicted risk: **5. Very high**																				
Invalid age: 0	10	7	2	1	0	0	0		5	3	2	0	3	2	0	1	2	2	0	0
	30 day mortality: **22.2% [4.5%-63.5%**				30 day mortality:				30 day mortality: **40.0% [8.3%-83.1%]**				30 day mortality: **0.0% [0.0%-76.8%]**				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 30	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
12.10.00 Norwood-type procedure (unspecified) — Predicted risk: **5. Very high**																				
Invalid age: 1	77	55	19	3	72	52	17	3	4	2	2	0	0	0	0		0	0	0	
	30 day mortality: 25.7% [15.0%-40.4				30 day mortality: 24.6% [13.9%-39.8				30 day mortality: 50.0% [10.5%-89.5%				30 day mortality:				30 day mortality:			
12.11.00 Common arterial trunk (truncus) repair (unspecified) — Predicted risk: **5. Very high**																				
Invalid age: 0	28	21	1	6	13	11	1	1	15	10	0	5	0	0	0		0	0	0	
	30 day mortality: 4.5% [0.5%-29.6%]				30 day mortality: 8.3% [1.0%-45.4%]				30 day mortality: 0.0% [0.0%-39.9%]				30 day mortality:				30 day mortality:			
12.16.30 Ross procedure (Ao root replacement with pulm autograft) — Predicted risk: **5. Very high**																				
Invalid age: 0	55	52	0	3	0	0	0		1	1	0	0	31	30	0	1	23	21	0	2
	30 day mortality: 0.0% [0.0%-11.3%]				30 day mortality:				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality: 0.0% [0.0%-18.1%]				30 day mortality: 0.0% [0.0%-24.0%]			
12.21.00 Interrupted aortic arch repair (unspecified) — Predicted risk: **5. Very high**																				
Invalid age: 0	21	18	2	1	18	16	1	1	2	1	1	0	1	1	0	0	0	0	0	
	30 day mortality: 10.0% [2.0%-37.9%				30 day mortality: 5.9% [0.7%-35.8%]				30 day mortality: 50.0% [6.2%-93.8%]				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 30	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
12.25.00 Unifocalisation procedure (unspecified) — Predicted risk: **5. Very high**																				
Invalid age: 0	27	22	2	3	0	0	0		15	14	1	0	12	8	1	3	0	0	0	
	30 day mortality:		8.3% [1.6%-33.1%]		30 day mortality:				30 day mortality:		6.7% [0.8%-39.1%]		30 day mortality:		11.1% [1.3%-53.9%]		30 day mortality:			
12.27.01 Double outlet RV (Fallot-type) repair — Predicted risk: **5. Very high**																				
Invalid age: 0	30	25	3	2	0	0	0		10	7	2	1	16	15	1	0	4	3	0	1
	30 day mortality:		10.7% [2.8%-33.7%		30 day mortality:				30 day mortality:		22.2% [4.5%-63.5%]		30 day mortality:		6.3% [0.7%-37.4%]		30 day mortality:		0.0% [0.0%-68.9%]	
12.29.25 Arterial and atrial switch procedures (double switch) — Predicted risk: **5. Very high**																				
Invalid age: 0	7	5	0	2	0	0	0		2	2	0	0	5	3	0	2	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:			
12.29.40 Complex transposition of great arteries repair (DESCRIBE) — Predicted risk: **5. Very high**																				
Invalid age: 0	9	6	2	1	3	3	0	0	4	2	2	0	2	1	0	1	0	0	0	
	30 day mortality:		25.0% [5.1%-67.6%		30 day mortality:		0.0% [0.0%-68.9%]		30 day mortality:		50.0% [10.5%-89.5%		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 30	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
12.32.13 Transplantation of heart and lungs — Predicted risk: **5. Very high**																				
Invalid age: 0	7	4	2	1	0	0	0		0	0	0		5	3	1	1	2	1	1	0
	30 day mortality: **33.3% [6.8%-77.3%**				30 day mortality:				30 day mortality:				30 day mortality: **25.0% [3.0%-78.2%]**				30 day mortality: **50.0% [6.2%-93.8%]**			
12.34.64 Pacemaker system placement: permanent endocardial — Predicted risk: **6. not classified**																				
Invalid age: 0	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%]**			
12.45.04 Transluminal retrieval of foreign body (unspecified) — Predicted risk: **6. not classified**																				
Invalid age: 0	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**																				
Invalid age: 0	3	3	0	0	0	0	0		1	1	0	0	2	2	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 30	No FU	Procedures	Alive 30d	Deaths 30d	No FU	Procedures	Alive 30d	Deaths 30d	No FU
99.99.99 Other procedure																				
Predicted risk: **6. not classified**																				
Invalid age: 0	4	4	0	0	1	1	0	0	0	0	0		3	3	0	0	0	0	0	
	30 day mortality: **0.0% [0.0%-62.4%]**				30 day mortality: **0.0% [0.0%-86.9%]**				30 day mortality:				30 day mortality: **0.0% [0.0%-68.9%]**				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
ACH. Alder Hey Hospital	347	329	10	8	92	90	1	1	137	126	6	5	113	110	2	1	5	3	1	1
Invalid age: 0	30 day mortality: 2.9% [1.3%-6.4%]				30 day mortality: 1.1% [0.1%-8.7%]				30 day mortality: 4.5% [1.7%-11.8%]				30 day mortality: 1.8% [0.3%-8.6%]				30 day mortality: 25.0% [3.0%-78.2%			
BCH. Birmingham Childrens Hospital	493	426	26	41	113	89	16	8	138	120	6	12	209	187	3	19	33	30	1	2
Invalid age: 0	30 day mortality: 5.8% [3.5%-9.3%]				30 day mortality: 15.2% [8.3%-26.3%				30 day mortality: 4.8% [1.8%-12.3%]				30 day mortality: 1.6% [0.4%-6.0%]				30 day mortality: 3.2% [0.4%-22.6%]			
BRC. Bristol Children's Hospital	246	226	6	14	49	43	1	5	76	68	4	4	83	79	1	3	38	36	0	2
Invalid age: 0	30 day mortality: 2.6% [0.9%-6.9%]				30 day mortality: 2.3% [0.3%-16.8%]				30 day mortality: 5.6% [1.7%-16.9%]				30 day mortality: 1.3% [0.1%-9.8%]				30 day mortality: 0.0% [0.0%-15.6%]			
FRE. Freeman Hospital	196	163	13	20	41	32	5	4	67	52	6	9	58	51	0	7	30	28	2	0
Invalid age: 0	30 day mortality: 7.4% [3.7%-14.2%				30 day mortality: 13.5% [4.6%-33.5%				30 day mortality: 10.3% [3.8%-25.0				30 day mortality: 0.0% [0.0%-11.5%]				30 day mortality: 6.7% [1.3%-27.7%]			
GOS. The Hospital for Sick Children	502	381	25	96	102	71	6	25	181	139	10	32	211	166	9	36	1	1	0	0
Invalid age: 7	30 day mortality: 6.2% [3.7%-10.0%				30 day mortality: 7.8% [2.9%-19.4%]				30 day mortality: 6.7% [3.1%-14.0%]				30 day mortality: 5.1% [2.3%-11.3%]				30 day mortality: 0.0% [0.0%-86.9%]			
GRL. Glenfield Hospital	172	151	15	6	51	42	6	3	51	46	4	1	70	63	5	2	0	0	0	
Invalid age: 0	30 day mortality: 9.0% [4.8%-16.4%				30 day mortality: 12.5% [4.7%-29.4%				30 day mortality: 8.0% [2.4%-23.4%]				30 day mortality: 7.4% [2.5%-19.8%]				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
GUY. Guy's Hospital	246	207	8	31	63	48	5	10	95	78	3	14	70	63	0	7	18	18	0	0
Invalid age: 0	30 day mortality: 3.7% [1.6%-8.7%]				30 day mortality: 9.4% [3.2%-24.7%]				30 day mortality: 3.7% [0.9%-13.5%]				30 day mortality: 0.0% [0.0%-9.5%]				30 day mortality: 0.0% [0.0%-26.9%]			
LGI. Leeds General Infirmary	333	301	13	19	48	40	5	3	93	84	5	4	161	150	2	9	29	25	1	3
Invalid age: 2	30 day mortality: 4.1% [2.1%-8.1%]				30 day mortality: 11.1% [3.8%-28.4%				30 day mortality: 5.6% [1.9%-15.5%]				30 day mortality: 1.3% [0.3%-6.4%]				30 day mortality: 3.8% [0.5%-26.0%]			
NHB. Royal Brompton Hospital	482	364	34	84	63	46	8	9	151	119	11	21	170	124	7	39	98	75	8	15
Invalid age: 0	30 day mortality: 8.5% [5.6%-12.9%				30 day mortality: 14.8% [6.3%-31.0%				30 day mortality: 8.5% [4.0%-16.9%]				30 day mortality: 5.3% [2.1%-12.9%]				30 day mortality: 9.6% [4.1%-21.2%]			
RAD. John Radcliffe Infirmary	109	103	6	0	23	19	4	0	46	44	2	0	39	39	0	0	1	1	0	0
Invalid age: 0	30 day mortality: 5.5% [2.0%-14.1%				30 day mortality: 17.4% [5.3%-44.1%				30 day mortality: 4.3% [0.9%-19.4%]				30 day mortality: 0.0% [0.0%-14.5%]				30 day mortality: 0.0% [0.0%-86.9%]			
RHS. Royal Hospital for Sick Children	243	235	4	4	56	52	3	1	74	73	1	0	112	109	0	3	1	1	0	0
Invalid age: 0	30 day mortality: 1.7% [0.5%-5.5%]				30 day mortality: 5.5% [1.4%-19.1%]				30 day mortality: 1.4% [0.2%-10.5%]				30 day mortality: 0.0% [0.0%-5.7%]				30 day mortality: 0.0% [0.0%-86.9%]			
RVB. Royal Victoria Hospital	94	91	3	0	19	19	0	0	17	16	1	0	50	48	2	0	2	2	0	0
Invalid age: 6	30 day mortality: 3.2% [0.8%-11.7%				30 day mortality: 0.0% [0.0%-25.9%]				30 day mortality: 5.9% [0.7%-35.8%]				30 day mortality: 4.0% [0.8%-18.0%]				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
SGH. Southampton General Hospital																				
	244	217	10	17	56	50	3	3	77	69	4	4	76	69	3	4	34	28	0	6
Invalid age: 1	30 day mortality: **4.4% [2.0%-9.4%]**				30 day mortality: **5.7% [1.4%-19.7%]**				30 day mortality: **5.5% [1.6%-16.7%]**				30 day mortality: **4.2% [1.1%-15.0%]**				30 day mortality: **0.0% [0.0%-19.2%]**			
THH. The Heart Hospital																				
	304	56	9	239	21	2	3	16	99	16	2	81	176	32	2	142	8	6	2	0
Invalid age: 0	30 day mortality: **13.8% [6.2%-28.2**				30 day mortality: **60.0% [16.9%-91.7**				30 day mortality: **11.1% [2.2%-41.0**				30 day mortality: **5.9% [1.2%-25.0%]**				30 day mortality: **25.0% [5.1%-67.6%**			

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e-mail: **david@minap.co.uk**

Cardiac Surgical Benchmark Procedures From: **01/04/2000** to **31/03/2001**

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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
ACH. Alder Hey Hospital	ASD closure (surgical)	**15**	**15**	**0**	**0.0%**	[0.0%-30.7%]	**0**
BCH. Birmingham Childrens Hospital	ASD closure (surgical)	**23**	**22**	**0**	**0.0%**	[0.0%-23.2%]	**1**
BRC. Bristol Children's Hospital	ASD closure (surgical)	**17**	**16**	**0**	**0.0%**	[0.0%-29.3%]	**1**
FRE. Freeman Hospital	ASD closure (surgical)	**20**	**19**	**1**	**5.0%**	[0.6%-31.8%]	**0**
GOS. The Hospital for Sick Children	ASD closure (surgical)	**25**	**23**	**0**	**0.0%**	[0.0%-22.4%]	**2**
GRL. Glenfield Hospital	ASD closure (surgical)	**13**	**13**	**0**	**0.0%**	[0.0%-33.8%]	**0**
GUY. Guy's Hospital	ASD closure (surgical)	**21**	**20**	**0**	**0.0%**	[0.0%-24.9%]	**1**
LGI. Leeds General Infirmary	ASD closure (surgical)	**33**	**32**	**0**	**0.0%**	[0.0%-17.2%]	**1**
NHB. Royal Brompton Hospital	ASD closure (surgical)	**43**	**36**	**1**	**2.7%**	[0.3%-19.5%]	**6**
RAD. John Radcliffe Infirmary	ASD closure (surgical)	**7**	**7**	**0**	**0.0%**	[0.0%-48.7%]	**0**
RHS. Royal Hospital for Sick Children	ASD closure (surgical)	**14**	**14**	**0**	**0.0%**	[0.0%-32.2%]	**0**
RVB. Royal Victoria Hospital	ASD closure (surgical)	**12**	**12**	**0**	**0.0%**	[0.0%-35.6%]	**0**
SGH. Southampton General Hospital	ASD closure (surgical)	**28**	**28**	**0**	**0.0%**	[0.0%-19.2%]	**0**

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		Procedures	Alive 30d	Deaths 30d	30 day mortality	99% C.I.	No 30 day FU
THH. The Heart Hospital	ASD closure (surgical)	**19**	**4**	**1**	**20.0%**	[2.4%-71.8%]	**14**
ACH. Alder Hey Hospital	AVSD (complete) repair	**5**	**5**	**0**	**0.0%**	[0.0%-57.0%]	**0**
BCH. Birmingham Childrens Hospital	AVSD (complete) repair	**12**	**10**	**0**	**0.0%**	[0.0%-39.9%]	**2**
BRC. Bristol Children's Hospital	AVSD (complete) repair	**1**	**1**	**0**	**0.0%**	[0.0%-86.9%]	**0**
FRE. Freeman Hospital	AVSD (complete) repair	**4**	**3**	**0**	**0.0%**	[0.0%-68.9%]	**1**
GOS. The Hospital for Sick Children	AVSD (complete) repair	**21**	**15**	**0**	**0.0%**	[0.0%-30.7%]	**6**
GRL. Glenfield Hospital	AVSD (complete) repair	**3**	**2**	**1**	**33.3%**	[4.0%-85.6%]	**0**
GUY. Guy's Hospital	AVSD (complete) repair	**9**	**9**	**0**	**0.0%**	[0.0%-42.4%]	**0**
LGI. Leeds General Infirmary	AVSD (complete) repair	**15**	**14**	**0**	**0.0%**	[0.0%-32.2%]	**1**
NHB. Royal Brompton Hospital	AVSD (complete) repair	**15**	**12**	**0**	**0.0%**	[0.0%-35.6%]	**3**
RAD. John Radcliffe Infirmary	AVSD (complete) repair	**2**	**2**	**0**	**0.0%**	[0.0%-76.8%]	**0**
RHS. Royal Hospital for Sick Children	AVSD (complete) repair	**13**	**12**	**0**	**0.0%**	[0.0%-35.6%]	**1**
RVB. Royal Victoria Hospital	AVSD (complete) repair	**3**	**3**	**0**	**0.0%**	[0.0%-68.9%]	**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
SGH. Southampton General Hospital	AVSD (complete) repair	**6**	**6**	**0**	**0.0%**	[0.0%-52.5%]	**0**
THH. The Heart Hospital	AVSD (complete) repair	**8**	**1**	**0**	**0.0%**	[0.0%-86.9%]	**7**
ACH. Alder Hey Hospital	Coarct repair	**28**	**27**	**0**	**0.0%**	[0.0%-19.7%]	**1**
BCH. Birmingham Childrens Hospital	Coarct repair	**17**	**16**	**0**	**0.0%**	[0.0%-29.3%]	**1**
BRC. Bristol Children's Hospital	Coarct repair	**20**	**18**	**1**	**5.3%**	[0.6%-33.1%]	**1**
FRE. Freeman Hospital	Coarct repair	**14**	**12**	**2**	**14.3%**	[2.8%-48.7%]	**0**
GOS. The Hospital for Sick Children	Coarct repair	**32**	**24**	**0**	**0.0%**	[0.0%-21.7%]	**8**
GRL. Glenfield Hospital	Coarct repair	**18**	**18**	**0**	**0.0%**	[0.0%-26.9%]	**0**
GUY. Guy's Hospital	Coarct repair	**19**	**17**	**0**	**0.0%**	[0.0%-28.1%]	**2**
LGI. Leeds General Infirmary	Coarct repair	**39**	**37**	**0**	**0.0%**	[0.0%-15.2%]	**2**
NHB. Royal Brompton Hospital	Coarct repair	**40**	**33**	**1**	**2.9%**	[0.3%-20.9%]	**6**
RAD. John Radcliffe Infirmary	Coarct repair	**11**	**11**	**0**	**0.0%**	[0.0%-37.6%]	**0**
RHS. Royal Hospital for Sick Children	Coarct repair	**19**	**19**	**0**	**0.0%**	[0.0%-25.9%]	**0**

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Cardiac Surgical Benchmark Procedures From: **01/04/2000** to **31/03/2001**

Note 1. Range shown in brackets is 99% confidence interval for mortality (calculated using Wilson Score method).
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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
RVB. Royal Victoria Hospital	Coarct repair	**8**	**8**	**0**	**0.0%**	[0.0%-45.3%]	**0**
SGH. Southampton General Hospital	Coarct repair	**20**	**18**	**0**	**0.0%**	[0.0%-26.9%]	**2**
THH. The Heart Hospital	Coarct repair	**7**	**3**	**0**	**0.0%**	[0.0%-68.9%]	**4**
ACH. Alder Hey Hospital	tetralogy repair	**25**	**24**	**0**	**0.0%**	[0.0%-21.7%]	**1**
BCH. Birmingham Childrens Hospital	tetralogy repair	**20**	**19**	**0**	**0.0%**	[0.0%-25.9%]	**1**
BRC. Bristol Children's Hospital	tetralogy repair	**12**	**12**	**0**	**0.0%**	[0.0%-35.6%]	**0**
FRE. Freeman Hospital	tetralogy repair	**10**	**7**	**0**	**0.0%**	[0.0%-48.7%]	**3**
GOS. The Hospital for Sick Children	tetralogy repair	**33**	**25**	**2**	**7.4%**	[1.5%-30.2%]	**6**
GRL. Glenfield Hospital	tetralogy repair	**6**	**6**	**0**	**0.0%**	[0.0%-52.5%]	**0**
GUY. Guy's Hospital	tetralogy repair	**14**	**8**	**0**	**0.0%**	[0.0%-45.3%]	**6**
LGI. Leeds General Infirmary	tetralogy repair	**25**	**23**	**0**	**0.0%**	[0.0%-22.4%]	**2**
NHB. Royal Brompton Hospital	tetralogy repair	**30**	**20**	**1**	**4.8%**	[0.6%-30.7%]	**9**
RAD. John Radcliffe Infirmary	tetralogy repair	**8**	**8**	**0**	**0.0%**	[0.0%-45.3%]	**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
RHS. Royal Hospital for Sick Children	tetralogy repair	**12**	**12**	**0**	**0.0%**	[0.0%-35.6%]	**0**
RVB. Royal Victoria Hospital	tetralogy repair	**4**	**3**	**1**	**25.0%**	[3.0%-78.2%]	**0**
SGH. Southampton General Hospital	tetralogy repair	**8**	**6**	**1**	**14.3%**	[1.7%-61.6%]	**1**
ACH. Alder Hey Hospital	TGA arterial switch	**22**	**21**	**0**	**0.0%**	[0.0%-24.0%]	**1**
BCH. Birmingham Childrens Hospital	TGA arterial switch	**17**	**14**	**1**	**6.7%**	[0.8%-39.1%]	**2**
BRC. Bristol Children's Hospital	TGA arterial switch	**6**	**5**	**0**	**0.0%**	[0.0%-57.0%]	**1**
FRE. Freeman Hospital	TGA arterial switch	**9**	**8**	**0**	**0.0%**	[0.0%-45.3%]	**1**
GOS. The Hospital for Sick Children	TGA arterial switch	**11**	**6**	**0**	**0.0%**	[0.0%-52.5%]	**5**
GRL. Glenfield Hospital	TGA arterial switch	**7**	**7**	**0**	**0.0%**	[0.0%-48.7%]	**0**
GUY. Guy's Hospital	TGA arterial switch	**6**	**5**	**0**	**0.0%**	[0.0%-57.0%]	**1**
LGI. Leeds General Infirmary	TGA arterial switch	**8**	**8**	**0**	**0.0%**	[0.0%-45.3%]	**0**
NHB. Royal Brompton Hospital	TGA arterial switch	**14**	**12**	**2**	**14.3%**	[2.8%-48.7%]	**0**
RAD. John Radcliffe Infirmary	TGA arterial switch	**2**	**1**	**1**	**50.0%**	[6.2%-93.8%]	**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
RHS. Royal Hospital for Sick Children	TGA arterial switch	**5**	**5**	**0**	**0.0%**	[0.0%-57.0%]	**0**
RVB. Royal Victoria Hospital	TGA arterial switch	**2**	**2**	**0**	**0.0%**	[0.0%-76.8%]	**0**
SGH. Southampton General Hospital	TGA arterial switch	**9**	**9**	**0**	**0.0%**	[0.0%-42.4%]	**0**
ACH. Alder Hey Hospital	VSD closure	**33**	**32**	**0**	**0.0%**	[0.0%-17.2%]	**1**
BCH. Birmingham Childrens Hospital	VSD closure	**31**	**30**	**0**	**0.0%**	[0.0%-18.1%]	**1**
BRC. Bristol Children's Hospital	VSD closure	**19**	**16**	**0**	**0.0%**	[0.0%-29.3%]	**3**
FRE. Freeman Hospital	VSD closure	**17**	**14**	**0**	**0.0%**	[0.0%-32.2%]	**3**
GOS. The Hospital for Sick Children	VSD closure	**45**	**35**	**0**	**0.0%**	[0.0%-15.9%]	**10**
GRL. Glenfield Hospital	VSD closure	**15**	**14**	**1**	**6.7%**	[0.8%-39.1%]	**0**
GUY. Guy's Hospital	VSD closure	**21**	**16**	**0**	**0.0%**	[0.0%-29.3%]	**5**
LGI. Leeds General Infirmary	VSD closure	**35**	**30**	**1**	**3.2%**	[0.4%-22.6%]	**4**
NHB. Royal Brompton Hospital	VSD closure	**41**	**30**	**2**	**6.3%**	[1.2%-26.3%]	**9**
RAD. John Radcliffe Infirmary	VSD closure	**12**	**12**	**0**	**0.0%**	[0.0%-35.6%]	**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
RHS. Royal Hospital for Sick Children	VSD closure	**22**	**22**	**0**	**0.0%**	[0.0%-23.2%]	**0**
RVB. Royal Victoria Hospital	VSD closure	**6**	**6**	**0**	**0.0%**	[0.0%-52.5%]	**0**
SGH. Southampton General Hospital	VSD closure	**14**	**12**	**0**	**0.0%**	[0.0%-35.6%]	**2**
THH. The Heart Hospital	VSD closure	**39**	**6**	**0**	**0.0%**	[0.0%-52.5%]	**33**

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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:	2,063	1,858	25	13	202	188	1	13	286	246	5	35	1,319	1,191	8	120	242	223	11	8
Invalid age: 14	30 day mortality: **1.3% [0.8%-2.2%]**				30 day mortality: **0.5% [0.1%-4.4%]**				30 day mortality: **2.0% [0.7%-5.8%]**				30 day mortality: **0.7% [0.3%-1.6%]**				30 day mortality: **4.7% [2.2%-9.7%]**			

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

Period covered: **01/04/2000** to **31/03/2001**

Mortality reported at 30 DAYS POST-PROCEDURE.

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

Hospital	Surgical Procedures
ACH. Alder Hey Hospital	5
ACH. Alder Hey Hospital	113
ACH. Alder Hey Hospital	137
ACH. Alder Hey Hospital	92
BCH. Birmingham Childrens Hospital	33
BCH. Birmingham Childrens Hospital	209
BCH. Birmingham Childrens Hospital	138
BCH. Birmingham Childrens Hospital	113
BRC. Bristol Children's Hospital	38
BRC. Bristol Children's Hospital	83
BRC. Bristol Children's Hospital	76
BRC. Bristol Children's Hospital	49
FRE. Freeman Hospital	30

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Catheter Interventional Benchmark Procedures From **01/04/2000** to **31/03/2001**

Note 1. Range shown in brackets is 99% confidence interval for mortality (calculated using Wilson Score method).
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																
ASD closure (catheter)	320	297	3	20	1	1	0	0	1	1	0	0	213	199	0	14	105	96	3	6
Invalid age: 0	30 day mortality:		1.0% [0.3%-3.9%]		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%-3.2%]		30 day mortality:		3.0% [0.8%-11.2%]	
Balloon pulmonary valve	246	225	3	18	42	41	0	1	87	79	1	7	104	94	1	9	13	11	1	1
Invalid age: 0	30 day mortality:		1.3% [0.3%-5.1%]		30 day mortality:		0.0% [0.0%-13.9%]		30 day mortality:		1.3% [0.1%-9.8%]		30 day mortality:		1.1% [0.1%-8.4%]		30 day mortality:		8.3% [1.0%-45.4%]	
Duct closure (catheter)	441	416	2	23	2	2	0	0	38	34	1	3	381	361	0	20	18	17	1	0
Invalid age: 2	30 day mortality:		0.5% [0.1%-2.4%]		30 day mortality:		0.0% [0.0%-76.8%]		30 day mortality:		2.9% [0.3%-20.4%]		30 day mortality:		0.0% [0.0%-1.8%]		30 day mortality:		5.6% [0.7%-34.4%]	

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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
12.00.25. Placement of stent in pulmonary vein or pathway																				
Invalid age: 0	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%]			
12.00.43. Balloon dilation of systemic vein or pathway																				
Invalid age: 0	17	15	2	0	0	0	0		4	3	1	0	11	10	1	0	2	2	0	0
	30 day mortality: 11.8% [2.3%-42.7				30 day mortality:				30 day mortality: 25.0% [3.0%-78.2				30 day mortality: 9.1% [1.1%-47.9%]				30 day mortality: 0.0% [0.0%-76.8%]			
12.01.06. ASD closure with transluminal prosthesis																				
Invalid age: 0	320	297	3	20	1	1	0	0	1	1	0	0	213	199	0	14	105	96	3	6
	30 day mortality: 1.0% [0.3%-3.9%]				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%-3.2%]				30 day mortality: 3.0% [0.8%-11.2%]			
12.01.41. Balloon atrial septostomy by pull back (Rashkind)																				
Invalid age: 2	125	115	1	9	108	100	1	7	13	12	0	1	2	1	0	1	0	0	0	
	30 day mortality: 0.9% [0.1%-6.9%]				30 day mortality: 1.0% [0.1%-7.9%]				30 day mortality: 0.0% [0.0%-35.6%				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality:			
12.06.18. Stent placement in RV outflow tract																				
Invalid age: 0	3	3	0	0	0	0	0		1	1	0	0	2	2	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
12.06.25. Transluminal RV biopsy																				
Invalid age: 0	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%]**			
12.08.01. VSD closure (unspecified)																				
Invalid age: 0	5	3	0	2	0	0	0		2	2	0	0	3	1	0	2	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:			
12.08.07. VSD closure with transluminal prosthesis																				
Invalid age: 0	4	3	1	0	0	0	0		0	0	0		3	2	1	0	1	1	0	0
	30 day mortality: **25.0% [3.0%-78.2**				30 day mortality:				30 day mortality:				30 day mortality: **33.3% [4.0%-85.6%**				30 day mortality: **0.0% [0.0%-86.9%]**			
12.08.16. Closure of multiple VSDs																				
Invalid age: 0	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:			
12.10.14. Stent placement in arterial duct (PDA)																				
Invalid age: 0	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:			

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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																				
Invalid age: 0	2	2	0	0	2	2	0	0	0	0	0		0	0	0		0	0	0	
	30 day mortality: **0.0% [0.0%-76.8%]**				30 day mortality: **0.0% [0.0%-76.8%]**				30 day mortality:				30 day mortality:				30 day mortality:			
12.13.05. Balloon pulmonary valvotomy																				
Invalid age: 0	246	225	3	18	42	41	0	1	87	79	1	7	104	94	1	9	13	11	1	1
	30 day mortality: **1.3% [0.3%-5.1%]**				30 day mortality: **0.0% [0.0%-13.9%]**				30 day mortality: **1.3% [0.1%-9.8%]**				30 day mortality: **1.1% [0.1%-8.4%]**				30 day mortality: **8.3% [1.0%-45.4%]**			
12.13.08. Transluminal radiofrequency pulmonary valvotomy																				
Invalid age: 0	12	11	0	1	10	9	0	1	2	2	0	0	0	0	0		0	0	0	
	30 day mortality: **0.0% [0.0%-37.6%]**				30 day mortality: **0.0% [0.0%-42.4%]**				30 day mortality: **0.0% [0.0%-76.8%]**				30 day mortality:				30 day mortality:			
12.14.05. Balloon dilation of pulmonary trunk																				
Invalid age: 0	133	124	3	6	4	4	0	0	19	17	0	2	102	97	1	4	8	6	2	0
	30 day mortality: **2.4% [0.6%-8.9%]**				30 day mortality: **0.0% [0.0%-62.4%]**				30 day mortality: **0.0% [0.0%-28.1%]**				30 day mortality: **1.0% [0.1%-8.1%]**				30 day mortality: **25.0% [5.1%-67.6%]**			
12.15.14. Stent placement in LPA																				
Invalid age: 0	42	41	0	1	2	2	0	0	3	3	0	0	29	28	0	1	8	8	0	0
	30 day mortality: **0.0% [0.0%-13.9%]**				30 day mortality: **0.0% [0.0%-76.8%]**				30 day mortality: **0.0% [0.0%-68.9%]**				30 day mortality: **0.0% [0.0%-19.2%]**				30 day mortality: **0.0% [0.0%-45.3%]**			

PROCEDURES FOR CONGENITAL HEART DISEASE

Annual Report

Society of Cardiothoracic Surgeons of Great Britian and Ireland

British Paediatric Cardiac Association

Data collated and reported by the Central Cardiac Audit Database

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

Catheter Interventional Procedures From: 01/04/2000 to 31/03/2001

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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
12.16.02. Aortic valvotomy - open																				
Invalid age: 0	3	2	0	1	0	0	0		2	1	0	1	1	1	0	0	0	0	0	
	30 day mortality: 0.0% [0.0%-76.8%				30 day mortality:				30 day mortality: 0.0% [0.0%-86.9%				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality:			
12.16.05. Balloon aortic valvotomy																				
Invalid age: 2	88	82	0	6	13	11	0	2	20	19	0	1	44	41	0	3	9	9	0	0
	30 day mortality: 0.0% [0.0%-7.5%]				30 day mortality: 0.0% [0.0%-37.6%				30 day mortality: 0.0% [0.0%-25.9%				30 day mortality: 0.0% [0.0%-13.9%]				30 day mortality: 0.0% [0.0%-42.4%]			
12.17.11. Vascular ring procedure (unspecified)																				
Invalid age: 0	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:			
12.18.04. Balloon dilation of native aortic coarct/hypoplasia																				
Invalid age: 0	52	49	0	3	2	2	0	0	23	22	0	1	23	21	0	2	4	4	0	0
	30 day mortality: 0.0% [0.0%-11.9%				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%-24.0%]				30 day mortality: 0.0% [0.0%-62.4%]			
12.18.08. Balloon dilation of aortic re-coarctation																				
Invalid age: 0	35	31	1	3	0	0	0		19	16	1	2	13	12	0	1	3	3	0	0
	30 day mortality: 3.1% [0.4%-22.0%				30 day mortality:				30 day mortality: 5.9% [0.7%-35.8%				30 day mortality: 0.0% [0.0%-35.6%]				30 day mortality: 0.0% [0.0%-68.9%]			

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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
12.18.09. Stent placement at site of aortic coarctation																				
Invalid age: 0	13	12	1	0	0	0	0		0	0	0		2	2	0	0	11	10	1	0
	30 day mortality: **7.7% [0.9%-43.1%]**				30 day mortality:				30 day mortality:				30 day mortality: **0.0% [0.0%-76.8%]**				30 day mortality: **9.1% [1.1%-47.9%]**			
12.23.38. Transluminal coronary stent implantation																				
Invalid age: 0	8	7	0	1	0	0	0		0	0	0		8	7	0	1	0	0	0	
	30 day mortality: **0.0% [0.0%-48.7%]**				30 day mortality:				30 day mortality:				30 day mortality: **0.0% [0.0%-48.7%]**				30 day mortality:			
12.24.04. Arterial duct (PDA) closure with transluminal prosthesis																				
Invalid age: 2	441	416	2	23	2	2	0	0	38	34	1	3	381	361	0	20	18	17	1	0
	30 day mortality: **0.5% [0.1%-2.4%]**				30 day mortality: **0.0% [0.0%-76.8%]**				30 day mortality: **2.9% [0.3%-20.4%]**				30 day mortality: **0.0% [0.0%-1.8%]**				30 day mortality: **5.6% [0.7%-34.4%]**			
12.25.62. Stent placement in MAPCA																				
Invalid age: 0	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%]**			
12.29.50. Stent placement in pulmonary venous pathway (post Senning/Mustard)																				
Invalid age: 0	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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12.31.03. Modified R Blalock interposition shunt																				
Invalid age: 0	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:			
12.31.19. Balloon dilation of systemic-PA shunt																				
Invalid age: 0	2	2	0	0	1	1	0	0	1	1	0	0	0	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: **0.0% [0.0%-86.9%**				30 day mortality:				30 day mortality:			
12.32.40. Pericardiocentesis																				
Invalid age: 0	19	19	0	0	0	0	0		1	1	0	0	16	16	0	0	2	2	0	0
	30 day mortality: **0.0% [0.0%-25.9%**				30 day mortality:				30 day mortality: **0.0% [0.0%-86.9%**				30 day mortality: **0.0% [0.0%-29.3%]**				30 day mortality: **0.0% [0.0%-76.8%]**			
12.34.60. Pacemaker system placement: temporary (unspecified)																				
Invalid age: 0	20	19	1	0	1	1	0	0	3	2	1	0	14	14	0	0	2	2	0	0
	30 day mortality: **5.0% [0.6%-31.8%**				30 day mortality: **0.0% [0.0%-86.9%**				30 day mortality: **33.3% [4.0%-85.6**				30 day mortality: **0.0% [0.0%-32.2%]**				30 day mortality: **0.0% [0.0%-76.8%]**			
12.34.63. Pacemaker system placement: permanent epicardial																				
Invalid age: 0	20	16	1	3	0	0	0		3	2	0	1	14	11	1	2	3	3	0	0
	30 day mortality: **5.9% [0.7%-35.8%**				30 day mortality:				30 day mortality: **0.0% [0.0%-76.8%**				30 day mortality: **8.3% [1.0%-45.4%]**				30 day mortality: **0.0% [0.0%-68.9%]**			

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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
12.34.64. Pacemaker system placement: permanent endocardial																				
Invalid age: 0	63	62	1	0	3	3	0	0	5	5	0	0	50	50	0	0	5	4	1	0
	30 day mortality: 1.6% [0.2%-12.2%]				30 day mortality: 0.0% [0.0%-68.9%]				30 day mortality: 0.0% [0.0%-57.0%]				30 day mortality: 0.0% [0.0%-11.7%]				30 day mortality: 20.0% [2.4%-71.8%]			
12.34.67. Pacemaker system placement: permanent																				
Invalid age: 0	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:			
12.35.13. Pulse generator box replacement																				
Invalid age: 0	22	22	0	0	0	0	0		0	0	0		19	19	0	0	3	3	0	0
	30 day mortality: 0.0% [0.0%-23.2%]				30 day mortality:				30 day mortality:				30 day mortality: 0.0% [0.0%-25.9%]				30 day mortality: 0.0% [0.0%-68.9%]			
12.35.16. Isolated removal of implanted pacemaker electrode																				
Invalid age: 0	17	17	0	0	2	2	0	0	0	0	0		12	12	0	0	3	3	0	0
	30 day mortality: 0.0% [0.0%-28.1%]				30 day mortality: 0.0% [0.0%-76.8%]				30 day mortality:				30 day mortality: 0.0% [0.0%-35.6%]				30 day mortality: 0.0% [0.0%-68.9%]			
12.35.48. Transluminal radiofrequency procedure for arrhythmia																				
Invalid age: 4	124	122	0	2	1	1	0	0	1	1	0	0	99	97	0	2	19	19	0	0
	30 day mortality: 0.0% [0.0%-5.2%]				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%-6.4%]				30 day mortality: 0.0% [0.0%-25.9%]			

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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
12.36.14. Balloon dilation of cardiac conduit																				
Invalid age: 0	6	6	0	0	0	0	0		1	1	0	0	4	4	0	0	1	1	0	0
	30 day mortality: 0.0% [0.0%-52.5%				30 day mortality:				30 day mortality: 0.0% [0.0%-86.9%				30 day mortality: 0.0% [0.0%-62.4%]				30 day mortality: 0.0% [0.0%-86.9%]			
12.36.23. Stent placement in cardiac conduit																				
Invalid age: 0	4	3	0	1	0	0	0		1	1	0	0	3	2	0	1	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:			
12.42.31. Automatic cardioverter & defibrillator (AICD) implantation (unspecified)																				
Invalid age: 0	5	4	1	0	0	0	0		0	0	0		3	2	1	0	2	2	0	0
	30 day mortality: 20.0% [2.4%-71.8				30 day mortality:				30 day mortality:				30 day mortality: 33.3% [4.0%-85.6%				30 day mortality: 0.0% [0.0%-76.8%]			
12.45.04. Transluminal retrieval of foreign body (unspecified)																				
Invalid age: 0	87	18	2	67	3	2	0	1	16	2	0	14	68	14	2	52	0	0	0	
	30 day mortality: 10.0% [2.0%-37.9				30 day mortality: 0.0% [0.0%-76.8%				30 day mortality: 0.0% [0.0%-76.8%				30 day mortality: 12.5% [2.5%-44.5%				30 day mortality:			
12.45.10. Stent redilation																				
Invalid age: 0	22	22	0	0	0	0	0		3	3	0	0	13	13	0	0	6	6	0	0
	30 day mortality: 0.0% [0.0%-23.2%				30 day mortality:				30 day mortality: 0.0% [0.0%-68.9%				30 day mortality: 0.0% [0.0%-33.8%]				30 day mortality: 0.0% [0.0%-52.5%]			

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12.45.14. Transluminal coil embolisation																				
Invalid age: 0	57	56	0	1	1	1	0	0	13	13	0	0	43	42	0	1	0	0	0	
	30 day mortality: 0.0% [0.0%-10.6%]				30 day mortality: 0.0% [0.0%-86.9%]				30 day mortality: 0.0% [0.0%-33.8%]				30 day mortality: 0.0% [0.0%-13.6%]				30 day mortality:			
99.99.99. Other procedure																				
Invalid age: 0	17	16	0	1	2	2	0	0	1	1	0	0	9	9	0	0	5	4	0	1
	30 day mortality: 0.0% [0.0%-29.3%]				30 day mortality: 0.0% [0.0%-76.8%]				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%-62.4%]			

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ACH. Alder Hey Hospital	230	225	3	2	33	32	0	1	37	35	1	1	152	150	2	0	7	7	0	0
	30 day mortality: 1.3% [0.3%-5.1%]				30 day mortality: 0.0% [0.0%-17.2%]				30 day mortality: 2.8% [0.3%-19.9%]				30 day mortality: 1.3% [0.3%-6.4%]				30 day mortality: 0.0% [0.0%-48.7%]			
Invalid age: 1																				
BCH. Birmingham Childrens Hospital	250	241	2	7	15	14	0	1	26	25	1	0	187	180	1	6	22	22	0	0
	30 day mortality: 0.8% [0.2%-4.1%]				30 day mortality: 0.0% [0.0%-32.2%]				30 day mortality: 3.8% [0.5%-26.0%]				30 day mortality: 0.6% [0.1%-4.5%]				30 day mortality: 0.0% [0.0%-23.2%]			
Invalid age: 0																				
BRC. Bristol Children's Hospital	170	161	1	8	29	29	0	0	24	22	0	2	88	84	0	4	28	25	1	2
	30 day mortality: 0.6% [0.1%-5.0%]				30 day mortality: 0.0% [0.0%-18.6%]				30 day mortality: 0.0% [0.0%-23.2%]				30 day mortality: 0.0% [0.0%-7.3%]				30 day mortality: 3.8% [0.5%-26.0%]			
Invalid age: 1																				
FRE. Freeman Hospital	79	78	0	1	8	7	0	1	9	9	0	0	46	46	0	0	16	16	0	0
	30 day mortality: 0.0% [0.0%-7.8%]				30 day mortality: 0.0% [0.0%-48.7%]				30 day mortality: 0.0% [0.0%-42.4%]				30 day mortality: 0.0% [0.0%-12.6%]				30 day mortality: 0.0% [0.0%-29.3%]			
Invalid age: 0																				
GOS. The Hospital for Sick Children	193	169	2	22	16	13	0	3	38	34	1	3	132	115	1	16	7	7	0	0
	30 day mortality: 1.2% [0.2%-5.8%]				30 day mortality: 0.0% [0.0%-33.8%]				30 day mortality: 2.9% [0.3%-20.4%]				30 day mortality: 0.9% [0.1%-6.9%]				30 day mortality: 0.0% [0.0%-48.7%]			
Invalid age: 0																				
GRL. Glenfield Hospital	133	132	1	0	12	12	0	0	22	21	1	0	75	75	0	0	24	24	0	0
	30 day mortality: 0.8% [0.1%-6.1%]				30 day mortality: 0.0% [0.0%-35.6%]				30 day mortality: 4.5% [0.5%-29.6%]				30 day mortality: 0.0% [0.0%-8.1%]				30 day mortality: 0.0% [0.0%-21.7%]			
Invalid age: 0																				

Period covered: **01/04/2000** to **31/03/2001**

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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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GUY. Guy's Hospital	179	169	2	8	17	15	0	2	20	19	0	1	102	96	1	5	40	39	1	0
Invalid age: 0	30 day mortality: 1.2% [0.2%-5.8%]				30 day mortality: 0.0% [0.0%-30.7%]				30 day mortality: 0.0% [0.0%-25.9%]				30 day mortality: 1.0% [0.1%-8.2%]				30 day mortality: 2.5% [0.3%-18.2%]			
LGI. Leeds General Infirmary	122	111	0	11	8	8	0	0	9	7	0	2	85	77	0	8	20	19	0	1
Invalid age: 0	30 day mortality: 0.0% [0.0%-5.6%]				30 day mortality: 0.0% [0.0%-45.3%]				30 day mortality: 0.0% [0.0%-48.7%]				30 day mortality: 0.0% [0.0%-7.9%]				30 day mortality: 0.0% [0.0%-25.9%]			
NHB. Royal Brompton Hospital	195	163	10	22	16	15	0	1	35	27	1	7	119	106	1	12	25	15	8	2
Invalid age: 0	30 day mortality: 5.8% [2.6%-12.2%				30 day mortality: 0.0% [0.0%-30.7%]				30 day mortality: 3.6% [0.4%-24.5%]				30 day mortality: 0.9% [0.1%-7.5%]				30 day mortality: 34.8% [15.4%-61.0			
QEB. Queen Elizabeth Hospital	4	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	4	3	0	1
Invalid age: 0	30 day mortality: 0.0% [0.0%-68.9%				30 day mortality: #Num!				30 day mortality: #Num!				30 day mortality: #Num!				30 day mortality: 0.0% [0.0%-68.9%]			
RAD. John Radcliffe Infirmary	84	82	1	1	9	7	1	1	7	7	0	0	47	47	0	0	21	21	0	0
Invalid age: 0	30 day mortality: 1.2% [0.1%-9.5%]				30 day mortality: 12.5% [1.5%-57.5%				30 day mortality: 0.0% [0.0%-48.7%]				30 day mortality: 0.0% [0.0%-12.4%]				30 day mortality: 0.0% [0.0%-24.0%]			
RHS. Royal Hospital for Sick Children	153	152	0	1	20	19	0	1	17	17	0	0	109	109	0	0	7	7	0	0
Invalid age: 0	30 day mortality: 0.0% [0.0%-4.2%]				30 day mortality: 0.0% [0.0%-25.9%]				30 day mortality: 0.0% [0.0%-28.1%]				30 day mortality: 0.0% [0.0%-5.7%]				30 day mortality: 0.0% [0.0%-48.7%]			

Period covered: **01/04/2000** to **31/03/2001**

"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 Britian 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
RVB. Royal Victoria Hospital	74	72	2	0	4	4	0	0	5	5	0	0	52	51	1	0	5	4	1	0
Invalid age: 8	30 day mortality: **2.7% [0.5%-12.7%**				30 day mortality: **0.0% [0.0%-62.4%]**				30 day mortality: **0.0% [0.0%-57.0%]**				30 day mortality: **1.9% [0.2%-14.5%]**				30 day mortality: **20.0% [2.4%-71.8%**			
SGH. Southampton General Hospital	85	81	0	4	11	10	0	1	15	15	0	0	43	42	0	1	16	14	0	2
Invalid age: 0	30 day mortality: **0.0% [0.0%-7.6%]**				30 day mortality: **0.0% [0.0%-39.9%]**				30 day mortality: **0.0% [0.0%-30.7%]**				30 day mortality: **0.0% [0.0%-13.6%]**				30 day mortality: **0.0% [0.0%-32.2%]**			
THH. The Heart Hospital	108	19	1	88	4	3	0	1	22	3	0	19	82	13	1	68	0	0	0	
Invalid age: 0	30 day mortality: **5.0% [0.6%-31.8%**				30 day mortality: **0.0% [0.0%-68.9%]**				30 day mortality: **0.0% [0.0%-68.9%]**				30 day mortality: **7.1% [0.8%-41.0%]**				30 day mortality: **% [%-%]**			

Period covered: **01/04/2000** to **31/03/2001**

"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.

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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: **01/04/2000** to **31/03/2001**

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
ACH. Alder Hey Hospital	ASD closure (transluminal)	**32**	**32**	**0**	**0.0%**	[0.0%-17.2%]	**0**
BCH. Birmingham Childrens Hospital	ASD closure (transluminal)	**39**	**38**	**0**	**0.0%**	[0.0%-14.9%]	**1**
BRC. Bristol Children's Hospital	ASD closure (transluminal)	**20**	**17**	**0**	**0.0%**	[0.0%-28.1%]	**3**
FRE. Freeman Hospital	ASD closure (transluminal)	**11**	**11**	**0**	**0.0%**	[0.0%-37.6%]	**0**
GOS. The Hospital for Sick Children	ASD closure (transluminal)	**22**	**20**	**0**	**0.0%**	[0.0%-24.9%]	**2**
GRL. Glenfield Hospital	ASD closure (transluminal)	**10**	**10**	**0**	**0.0%**	[0.0%-39.9%]	**0**
GUY. Guy's Hospital	ASD closure (transluminal)	**29**	**28**	**0**	**0.0%**	[0.0%-19.2%]	**1**
LGI. Leeds General Infirmary	ASD closure (transluminal)	**28**	**23**	**0**	**0.0%**	[0.0%-22.4%]	**5**
NHB. Royal Brompton Hospital	ASD closure (transluminal)	**42**	**35**	**3**	**7.9%**	[2.0%-26.3%]	**4**
QEB. Queen Elizabeth Hospital	ASD closure (transluminal)	**3**	**2**	**0**	**0.0%**	[0.0%-76.8%]	**1**
RAD. John Radcliffe Infirmary	ASD closure (transluminal)	**33**	**33**	**0**	**0.0%**	[0.0%-16.7%]	**0**
RHS. Royal Hospital for Sick Children	ASD closure (transluminal)	**21**	**21**	**0**	**0.0%**	[0.0%-24.0%]	**0**
RVB. Royal Victoria Hospital	ASD closure (transluminal)	**4**	**4**	**0**	**0.0%**	[0.0%-62.4%]	**0**

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Catheter Intervention Benchmark Procedures From: 01/04/2000 to 31/03/2001

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
SGH. Southampton General Hospital	ASD closure (transluminal)	**23**	**23**	**0**	**0.0%**	[0.0%-22.4%]	**0**
ACH. Alder Hey Hospital	Balloon pulmonary valve	**34**	**34**	**0**	**0.0%**	[0.0%-16.3%]	**0**
BCH. Birmingham Childrens Hospital	Balloon pulmonary valve	**24**	**23**	**0**	**0.0%**	[0.0%-22.4%]	**1**
BRC. Bristol Children's Hospital	Balloon pulmonary valve	**18**	**17**	**0**	**0.0%**	[0.0%-28.1%]	**1**
FRE. Freeman Hospital	Balloon pulmonary valve	**7**	**7**	**0**	**0.0%**	[0.0%-48.7%]	**0**
GOS. The Hospital for Sick Children	Balloon pulmonary valve	**33**	**28**	**1**	**3.4%**	[0.4%-23.8%]	**4**
GRL. Glenfield Hospital	Balloon pulmonary valve	**24**	**23**	**1**	**4.2%**	[0.5%-27.7%]	**0**
GUY. Guy's Hospital	Balloon pulmonary valve	**21**	**14**	**1**	**6.7%**	[0.8%-39.1%]	**6**
LGI. Leeds General Infirmary	Balloon pulmonary valve	**17**	**15**	**0**	**0.0%**	[0.0%-30.7%]	**2**
NHB. Royal Brompton Hospital	Balloon pulmonary valve	**24**	**21**	**0**	**0.0%**	[0.0%-24.0%]	**3**
RAD. John Radcliffe Infirmary	Balloon pulmonary valve	**7**	**7**	**0**	**0.0%**	[0.0%-48.7%]	**0**
RHS. Royal Hospital for Sick Children	Balloon pulmonary valve	**10**	**10**	**0**	**0.0%**	[0.0%-39.9%]	**0**
RVB. Royal Victoria Hospital	Balloon pulmonary valve	**10**	**10**	**0**	**0.0%**	[0.0%-39.9%]	**0**

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Catheter Intervention Benchmark Procedures From: 01/04/2000 to 31/03/2001

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
SGH. Southampton General Hospital	Balloon pulmonary valve	**17**	**16**	**0**	**0.0%**	[0.0%-29.3%]	**1**
ACH. Alder Hey Hospital	Duct closure (transluminal)	**50**	**50**	**0**	**0.0%**	[0.0%-11.7%]	**0**
BCH. Birmingham Childrens Hospital	Duct closure (transluminal)	**50**	**49**	**0**	**0.0%**	[0.0%-11.9%]	**1**
BRC. Bristol Children's Hospital	Duct closure (transluminal)	**32**	**30**	**0**	**0.0%**	[0.0%-18.1%]	**2**
FRE. Freeman Hospital	Duct closure (transluminal)	**18**	**18**	**0**	**0.0%**	[0.0%-26.9%]	**0**
GOS. The Hospital for Sick Children	Duct closure (transluminal)	**53**	**48**	**1**	**2.0%**	[0.2%-15.3%]	**4**
GRL. Glenfield Hospital	Duct closure (transluminal)	**18**	**18**	**0**	**0.0%**	[0.0%-26.9%]	**0**
GUY. Guy's Hospital	Duct closure (transluminal)	**40**	**39**	**0**	**0.0%**	[0.0%-14.5%]	**1**
LGI. Leeds General Infirmary	Duct closure (transluminal)	**50**	**46**	**0**	**0.0%**	[0.0%-12.6%]	**4**
NHB. Royal Brompton Hospital	Duct closure (transluminal)	**36**	**29**	**1**	**3.3%**	[0.4%-23.2%]	**6**
RAD. John Radcliffe Infirmary	Duct closure (transluminal)	**19**	**19**	**0**	**0.0%**	[0.0%-25.9%]	**0**
RHS. Royal Hospital for Sick Children	Duct closure (transluminal)	**22**	**22**	**0**	**0.0%**	[0.0%-23.2%]	**0**
RVB. Royal Victoria Hospital	Duct closure (transluminal)	**30**	**30**	**0**	**0.0%**	[0.0%-18.1%]	**0**

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Catheter Intervention Benchmark Procedures From: 01/04/2000 to 31/03/2001

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
SGH. Southampton General Hospital	Duct closure (transluminal)	**16**	**15**	**0**	**0.0%**	[0.0%-30.7%]	**1**
THH. The Heart Hospital	Duct closure (transluminal)	**7**	**3**	**0**	**0.0%**	[0.0%-68.9%]	**4**

PAEDIATRIC CARDIAC PROCEDURES

Annual Report

Period covered: **01/04/2000** to **31/03/2001** Report coverage:

Data Quality - Overall

Data Item	% complete	Surgery	Catheter	Notes
NHSNumber:	77.8%	77.8%	83.3%	
Sex:	99.9%	99.9%	100.0%	
Weight:	87.0%	87.0%	81.2%	*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:	99.9%	99.9%	99.4%	
Postcode:	92.0%	92.0%	96.3%	
Procedure date:	100.0%	100.0%	100.0%	
Diagnosis:	92.2%	92.2%	87.1%	
Procedure:	99.6%	99.6%	99.7%	
Consultant:	98.1%	98.1%	99.2%	
Operator:	98.0%	98.0%	99.2%	
Operator grade:	97.9%	97.9%	99.1%	
Bypass/Non-Bypass/Catheter:	100.0%	100.0%	100.0%	
Operation sequence:	97.6%	97.6%	98.7%	
Date of discharge:	88.1%	88.1%	91.0%	
Status at discharge:	99.5%	99.5%	98.4%	
OVERALL:	**96.4%**	**96.4%**	**96.4%**	

PAEDIATRIC CARDIAC PROCEDURES

Annual Report

Period covered: **01/04/2000** to **31/03/2001** 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 completeness.

Data Quality - by Individual Hospital CARDIAC SURGERY DATA

Hospital	N	% data completeness															
		NHS Number	Sex:	Weight	DOB	Post Code	Procedure Date	Diagnosis	Procedure	Consultant	Operator	Grade	Closed/ Open/Cath	Sequence	Discharge Date	Status at discharge	OVERALL
ACH. Alder Hey Hospital	347	96%	100%	99%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	93%	100%	**99%**
BCH. Birmingham Childrens Hospital	493	79%	100%	99%	100%	82%	100%	99%	100%	100%	100%	100%	100%	100%	93%	100%	**98%**
BRC. Bristol Children's Hospital	246	92%	100%	37%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	**95%**
FRE. Freeman Hospital	196	95%	100%	89%	100%	93%	100%	97%	100%	100%	100%	97%	100%	100%	99%	100%	**98%**
GOS. The Hospital for Sick Children	502	76%	100%	95%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	99%	100%	**100%**
GRL. Glenfield Hospital	172	99%	100%	61%	100%	100%	100%	98%	100%	100%	100%	100%	100%	100%	99%	100%	**97%**
GUY. Guy's Hospital	246	77%	100%	94%	100%	98%	100%	98%	100%	100%	100%	100%	100%	100%	98%	100%	**99%**
LGI. Leeds General Infirmary	333	86%	100%	95%	100%	86%	100%	99%	100%	78%	78%	78%	100%	78%	98%	100%	**92%**
NHB. Royal Brompton Hospital	482	79%	100%	80%	100%	77%	100%	99%	99%	100%	100%	100%	100%	97%	89%	99%	**96%**
RAD. John Radcliffe Infirmary	109	95%	99%	78%	100%	99%	100%	100%	100%	100%	100%	100%	100%	100%	92%	100%	**98%**
RHS. Royal Hospital for Sick Children	243	4%	100%	97%	100%	98%	100%	100%	100%	100%	100%	97%	100%	97%	97%	97%	**99%**
RVB. Royal Victoria Hospital	94	0%	100%	93%	94%	93%	100%	93%	100%	96%	93%	100%	100%	100%	91%	93%	**96%**
SGH. Southampton General Hospital	244	87%	100%	84%	100%	97%	100%	100%	100%	100%	100%	100%	100%	100%	91%	100%	**98%**
THH. The Heart Hospital	304	83%	100%	89%	100%	88%	100%	8%	96%	100%	100%	100%	100%	100%	0%	100%	**84%**

PAEDIATRIC CARDIAC PROCEDURES

Annual Report

Period covered: **01/04/2000** to **31/03/2001** 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															
		NHS Number	Sex:	Weight	DOB	Post Code	Procedure Date	Diagnosis	Procedure	Consultant	Operator	Grade	Closed/ Open/Cath 7	Sequence	Discharge Date	Status at discharge	**OVERALL**
ACH. Alder Hey Hospital	230	99%	100%	99%	100%	99%	100%	100%	100%	100%	100%	100%	100%	100%	99%	100%	**100%**
BCH. Birmingham Childrens Hospital	250	92%	100%	83%	100%	98%	100%	98%	100%	100%	100%	100%	100%	100%	94%	100%	**98%**
BRC. Bristol Children's Hospital	170	96%	100%	88%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	**99%**
FRE. Freeman Hospital	79	99%	100%	99%	100%	100%	100%	67%	100%	99%	99%	100%	100%	100%	100%	100%	**97%**
GOS. The Hospital for Sick Children	193	89%	100%	98%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	99%	100%	**100%**
GRL. Glenfield Hospital	133	100%	100%	14%	100%	100%	100%	18%	100%	100%	100%	100%	100%	100%	100%	100%	**88%**
GUY. Guy's Hospital	183	84%	100%	90%	98%	89%	100%	98%	100%	100%	100%	100%	100%	100%	85%	92%	**96%**
LGI. Leeds General Infirmary	122	93%	100%	93%	100%	93%	100%	98%	99%	89%	89%	89%	100%	89%	100%	100%	**96%**
NHB. Royal Brompton Hospital	195	88%	100%	39%	100%	88%	100%	100%	99%	100%	100%	100%	100%	94%	92%	96%	**93%**
QEB. Queen Elizabeth Hospital	4	75%	100%	75%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	**98%**
RAD. John Radcliffe Infirmary	84	99%	100%	93%	100%	96%	100%	100%	100%	100%	100%	100%	100%	100%	98%	100%	**99%**
RHS. Royal Hospital for Sick Children	153	5%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	99%	100%	**100%**
RVB. Royal Victoria Hospital	74	9%	100%	85%	89%	85%	100%	85%	100%	97%	97%	100%	100%	100%	86%	86%	**94%**
SGH. Southampton General Hospital	85	89%	100%	61%	100%	100%	100%	100%	100%	100%	100%	95%	100%	98%	100%	100%	**97%**
THH. The Heart Hospital	108	93%	100%	94%	100%	96%	100%	0%	97%	100%	100%	100%	100%	100%	0%	100%	**85%**