Objective 2 of the review is "to analyse demand for specialist inpatient congenital heart disease care" Therefore, we need to estimate current and future activity for surgical and catheterisation procedures The procedures we are considering with their OPCS and EPCC codes are listed below:

Procedures

These procedures are in scope of the activity analysis:

OPCS Code	Procedure description	EPCC codes						
	K04.1 Repair of tetralogy of fallot using valved right ventricular outflow conduit	12.28.01						
	K04.2 Repair of tetralogy of fallot using right ventricular outflow conduit NEC							
	K04.3 Repair of tetralogy of fallot using transannular patch	12.26.13						
	K04.4 Revision of repair of tetralogy of fallot K04.5 Repair of tetralogy of fallot with absent pulmonary valve	12.26.21						
	K04.6 Repair of fallot-type pulmonary atresia with aortopulmonary collaterals	12.28.11						
	K04.8 Other specified repair of tetralogy of fallot	12.26.20						
	K04.9 Unspecified repair of tetralogy of fallot	12.26.01						
	K05.1 Reconstruction of atrium using atrial patch for transposition of great arteries	12.29.02						
	K05.2 Reconstruction of atrium using atrial wall for transposition of great arteries K06.1 Repositioning of transposed great arteries	12.29.01 12.29.21						
	K06.2 Left ventricle to aorta tunnel with right ventricle to pulmonary trunk direct anastomosis	12.27.45						
K06.3	K06.3 Left ventricle to aorta tunnel with right ventricle to pulmonary artery valved conduit	12.29.11						
	K06.4 Atrial inversion and repositioning of transposed great artery	12.29.25						
	K06.8 Other specified other repair of transposition of great arteries	12.49.40 12.00.00						
	K07.1 Correction of total anomalous pulmonary venous connection to supracardiac vessel K07.2 Correction of total anomalous pulmonary venous connection to coronary sinus	12.00.00						
	K07.3 Correction of total anomalous pulmonary venous connection to infradiaphragmatic vessel	12.00.00						
	K07.8 Other specified correction of total anomalous pulmonary venous connection	12.00.00						
	K07.9 Unspecified correction of total anomalous pulmonary venous connection	12.00.00						
	K08.1 Repair of double outlet right ventricle with intraventricular tunnel	12.27.02						
	K08.2 Repair of fallot-type double outlet right ventricle	12.27.01						
	K08.3 Repair of double outlet right ventricle K08.8 Other specified repair of double outlet ventricle	12.29.20 12.29.20						├──┤
	K09.1 Repair of defect of atrioventricular septum using dual prosthetic patches	12.05.01						
K09.2	K09.2 Repair of defect of atrioventricular septum using prosthetic patch NEC	12.05.01						
	K09.3 Repair of defect of atrioventricular septum using tissue graft	12.05.01	10.01.5					
	K09.4 Repair of persistent ostium primum		12.04.09					
	K09.5 Primary repair of defect of atrioventricular septum NEC K09.6 Revision of repair of defect of atrioventricular septum	12.05.01 12.05.01						<u> </u>
	K09.8 Other specified repair of defect of atrioventricular septum		12.05.10					
	K09.9 Unspecified repair of defect of atrioventricular septum		12.05.11					
	K10.1 Repair of defect of interatrial septum using prosthetic patch	12.01.03						
	K10.2 Repair of defect of interatrial septum using pericardial patch K10.3 Repair of defect of interatrial septum using tissue graft NEC	12.01.03 12.01.03						<u> </u>
	K10.4 Primary repair of defect of interatrial septum NEC		12.01.53					
	K10.5 Revision of repair of defect of interatrial septum							
	K10.8 Other specified repair of defect of interatrial septum		12.01.08	12.30.41				
	K10.9 Unspecified repair of defect of interatrial septum	12.01.00						
	K13.3 Percutaneous transluminal repair of defect of interatrial septum using prosthesis K13.4 Percutaneous transluminal repair of defect of interatrial septum NEC	12.01.06	12.01.98					
	K14.2 Open atrial septostomy	12.30.20						
K14.3	K14.3 Atrial septectomy	12.01.43						
	K14.4 Surgical atrial septation	12.01.22	12.01.57					
	K14.8 Other specified other open operations on septum of heart K15.2 Closed atrial septostomy	12.01.42						<u> </u>
	K15.8 Other specified closed operations on septum of heart	12.01.42						
	K16.1 Percutaneous transluminal balloon atrial septostomy	12.01.41						
	K16.2 Percutaneous transluminal atrial septostomy NEC	12.01.44						
	K16.3 Percutaneous transluminal atrial septum fenestration closure with prosthesis	12.30.21	12.30.50	10 20 54				
	K17.1 Total cavopulmonary connection with extracardiac inferior caval vein to pulmonary artery conduit K17.2 Total cavopulmonary connection with lateral atrial tunnel		12.30.50	12.30.34				
	K17.3 Radical aortopulmonary reconstruction with systemic-to-pulmonary arterial shunt	12.10.00	12.00.01					
	K17.4 Radical aortopulmonary reconstruction with right ventricle to pulmonary arterial valveless conduit	12.06.43						
	K17.6 Takedown of total cavopulmonary connection		12.30.56					
	K17.7 Conversion of atrial pulmonary anastomosis to total pulmonary connection	12.30.34						
	K17.8 Other specified repair of univentricular heart K17.9 Unspecified repair of univentricular heart	12.30.37						├
	K18.1 Creation of valved conduit between atrium and ventricle of heart							
K18.2	K18.2 Creation of valved conduit between right atrium and pulmonary artery		[[
	K18.3 Creation of valved conduit between right ventricle of heart and pulmonary artery	12.36.01						\mid
	K18.4 Creation of valved conduit between left ventricle of heart and aorta K18.8 Other specified creation of valved cardiac conduit							┝──┤
	K10.0 Citred specified creation of valved cardiac conduit K19.2 Creation of conduit between right atrium and pulmonary artery NEC	12.30.01	12.30.28	12.30.32				<u>├</u> ──┤
K19.3	K19.3 Creation of conduit between right ventricle of heart and pulmonary artery NEC							
-	K19.4 Creation of conduit between right ventricle of heart and vena cava							
	K19.5 Creation of conduit between left ventricle of heart and aorta NEC	40.00.07	40.00.15					\mid
	K19.6 Revision of cardiac conduit NEC K19.8 Other specified creation of other cardiac conduit	12.30.27	12.36.40					┝───┤
	K19.9 Unspecified creation of other cardiac conduit	12.36.00	1	1				<u>⊢</u>
	K20.1 Correction of persistent sinus venosus	12.01.10						
	K20.2 Correction of partial anomalous pulmonary venous drainage		12.00.17	12.00.78				
	K20.3 Repair of cor triatriatum	12.01.31	12.06.40	12.06.40	12.06.44			┝──┤
	K24.1 Relief of right ventricular outflow tract obstruction K24.2 Repair of double chambered right ventricle	12.06.05	1∠.06.18	12.06.19	12.06.41			┝──┤
	K29.6 Truncal valve repair	12.11.34						
K29.7	K29.7 Replacement of truncal valve		12.11.43					
	K30.5 Revision of plastic repair of truncal valve	ļ						
	K33.6 Aortoventriculoplasty with pulmonary valve autograft	12.02.70						┝──┤
	K34.5 Closure of tricuspid valve K34.6 Closure of pulmonary valve	12.02.70 12.13.15						<u>├</u> ──┤
	K35.4 Percutaneous transluminal pulmonary valvotomy	12.13.05						
	K35.6 Percutaneous transluminal pulmonary valve perforation and dilation	12.13.09						
K35.7	K35.7 Percutaneous transluminal pulmonary valve replacement	12.13.51	1	1	1	1	1	1

K36.2	K36.2 Pulmonary valvectomy	12.13.12						
K37.1	K37.1 Infundibulectomy of heart using patch							
K37.2	K37.2 Infundibulectomy of heart NEC							
K37.3	K37.3 Repair of subartic stenosis	12 07 01	12.08.22					
			12.00.22					
K37.4	K37.4 Repair of supraaortic stenosis	12.16.40						
K37.5	K37.5 Excision of supramitral ring	12.01.32						
K37.6	K37.6 Aortoventriculoplasty	12.07.12						
K48.2	K48.2 Transposition of coronary artery NEC	12.23.00	12.23.80					
K57.7	K57.7 Percutaneous transluminal ablation for congenital heart malformation							
		40.00.44						
K76.1	K76.1 Percutaneous transluminal balloon dilation of cardiac conduit	12.36.14	l					
K76.8	K76.8 Other specified transluminal operations on cardiac conduit	12.36.23						
K76.9	K76.9 Unspecified transluminal operations on cardiac conduit							
L01.1	Correction of persistent truncus arteriosus	12.11.00						
L01.3		12.11.30						
	Repair of anomalous pulmonary artery origin from ascending aorta							
L01.4	L01.4 Closure of aortopulmonary window		12.12.08					
L02.3	L02.3 Closure of patent ductus arteriosus NEC	12.24.10	12.24.20					
L03.1	L03.1 Percutaneous transluminal prosthetic occlusion of patent ductus arteriosus	12.24.04	12.24.21	12.24.22				
L03.2	L03.2 Percutaneous transluminal stent implantation into arterial duct	12.10.14						
		-						
L05.9	Central systemic-to-pulmonary arterial interposition shunt,	12.31.06						
L06.2	L06.2 Creation of anastomosis to main pulmonary artery from ascending aorta NEC	12.09.03						
L06.3	L06.3 Creation of anastomosis to right pulmonary artery from ascending aorta NEC	12.31.05						
L06.9	Systemic-to-pulmonary arterial shunt procedure,	12.31.30						
L07.1	L07.1 Creation of shunt to right pulmonary artery from right subclavian artery using interposition tube prosthesis	12.31.03						
L07.2	L07.2 Creation of shunt to left pulmonary artery from left subclavian artery using interposition tube prosthesis	12.31.04						
L07.3	L07.3 Closure of prosthetic shunt to pulmonary artery from subclavian artery	12.31.31						
L07.4	Balloon dilation of systemic-to-pulmonary arterial shunt,	12.31.19						-
L07.5	Occlusion of systemic-to-pulmonary arterial shunt by transluminal device-embolus,	12.31.34		1		1		
							<u> </u>	
L07.9	Modified Blalock interposition shunt,	12.31.46			l			
L09.1	L09.1 Creation of anastomosis to pulmonary artery from vena cava	12.20.22	12.20.23	12.31.11	12.31.15	12.31.44	12.31.45	12.31.72
L09.2	L09.2 Removal of anastomosis between pulmonary artery and vena cava	12.31.42	1					
L10.4	10.4 Repair of pulmonary arterial sling	12.17.32		İ				
		-		40.44.15	40.00.00	40.00.01		
L12.1	L12.1 Application of band to pulmonary artery			12.14.19	12.20.20	12.20.21	<u> </u>	
L12.3	L12.3 Removal of band from pulmonary artery	12.14.03						
L23.1	L23.1 Plastic repair of aorta and end to end anastomosis of aorta	12.18.01	12.18.10					
L23.2	L23.2 Plastic repair of aorta using subclavian flap	12.18.03		1		1		
		12.18.02	1					
L23.3	L23.3 Plastic repair of aorta using patch graft		l					
L23.4	L23.4 Release of vascular ring of aorta	12.17.11						
L23.7	L23.7 Repair of interrupted aortic arch	12.21.00						
L69.1	L69.1 Major systemic to pulmonary collateral artery occlusion	12.25.18						
L69.2	L69.2 Pulmonary unifocalisation	12.25.00						
L69.3	L69.3 Percutaneous transluminal embolisation of major systemic to pulmonary collateral artery	12.25.65						
L69.4	L69.4 Percutaneous transluminal balloon angioplasty of major systemic to pulmonary collateral artery	12.25.72						
						-		
L69.5	Stent placement in systemic-to-pulmonary collateral artery (MAPCA(s)),	12.25.62						
L69.8	L69.8 Other specified operations on major systemic to pulmonary collateral arteries	12.25.19						
L75.1	L75.1 Excision of congenital arteriovenous malformation	12.25.07						
L75.3	L75.3 Embolisation of arteriovenous abnormality NEC	12.25.02						
K38.5	K38.5 Closure of aortic sinus of valsalva fistula	12.16.81						
K38.6	K38.6 Repair of aortic sinus of valsalva aneurysm	12.16.85						
K05.8	Other specified atrial inversion operations for transposition of great arteries	12.29.79						
K05.9	Unspecified atrial inversion operations for transposition of great arteries	12.29.26						
K06.9	Unspecified other repair of transposition of great arteries		12.29.40					
K08.4	Repair of double outlet left ventricle	12.27.50						
K14.5	Open enlargement of defect of interventricular septum	12.08.06	12.08.35					
K17.5	Biventricular repair of hypoplastic left heart syndrome	12.10.05						
K18.6	Creation of valved conduit between left ventricle of heart and pulmonary artery	12.36.02						
K36.1	Tricuspid valvectomy	12.02.22						
		-						
K24.5	K24.5 Relief of left ventricular outflow tract obstruction	12.07.07	12.07.13					
K27.1	K27.1 Allograft replacement of tricuspid valve							
K27.2	K27.2 Xenograft replacement of tricuspid valve							
K27.3	K27.3 Prosthetic replacement of tricuspid valve							
K27.4	K27.4 Replacement of tricuspid valve NEC	12 00 44	12.02.83			İ		
							├ ──┤	
K27.6	K27.6 Tricuspid valve repair NEC	12.02.02	12.02.09					
K27.8	K27.8 Other specified plastic repair of tricuspid valve					L		
K27.9	K27.9 Unspecified plastic repair of tricuspid valve	12.02.00	1					
K28.1	K28.1 Allograft replacement of pulmonary valve	12.13.22						
K28.2	K28.2 Xenograft replacement of pulmonary valve	10.22	1					
		+					<u> </u>	
K28.3	K28.3 Prosthetic replacement of pulmonary valve	1	1	ļ		L		
K28.4	K28.4 Replacement of pulmonary valve NEC	12.13.21	12.13.55					
K28.5	K28.5 Pulmonary valve repair NEC							
K11.1	K11.1 Repair of defect of interventricular septum using prosthetic patch	12.09.01	T					
K11.2	K11.2 Repair of defect of interventricular septum using pericardial patch	12.08.03		1		1		
K11.3	K11.3 Repair of defect of interventricular septum using tissue graft NEC	12.08.03						
K11.4	K11.4 Primary repair of defect of interventricular septum NEC	12.08.02				L		
K11.5	K11.5 Revision of repair of defect of interventricular septum	12.08.19	12.08.20					
K11.6	K11.6 Repair of multiple interventricular septal defects	12.08.16		1		1		
				ł		ł		
K11.7	K11.7 Repair of interventricular septal defect using intraoperative transluminal prosthesis	12.08.28						
K11.8	K11.8 Other specified repair of defect of interventricular septum	12.08.03						
K11.9	K11.9 Unspecified repair of defect of interventricular septum	12.08.01						
K12.1	K12.1 Repair of defect of septum of heart using prosthetic patch NEC	1	T					
	K12.2 Repair of defect of septum of heart using pricardial patch NEC	1	1	1		1		
K12 2								
K12.2						1		
K12.4	K12.4 Primary repair of defect of septum of heart NEC							
K12.4 K12.5	K12.4 Primary repair of defect of septum of heart NEC K12.5 Revision of repair of septum of heart NEC							
K12.4	K12.4 Primary repair of defect of septum of heart NEC							
K12.4 K12.5 K12.8	K12.4 Primary repair of defect of septum of heart NEC K12.5 Revision of repair of septum of heart NEC K12.8 Other specified repair of defect of unspecified septum of heart	12.09.07						
K12.4 K12.5 K12.8 K13.1	K12.4 Primary repair of defect of septum of heart NEC K12.5 Revision of repair of septum of heart NEC K12.8 Other specified repair of defect of unspecified septum of heart K13.1 Percutaneous transluminal repair of defect of interventricular septum using prosthesis	12.08.07						
K12.4 K12.5 K12.8	K12.4 Primary repair of defect of septum of heart NEC K12.5 Revision of repair of septum of heart NEC K12.8 Other specified repair of defect of unspecified septum of heart	12.08.07						
K12.4 K12.5 K12.8 K13.1 K13.2	K12.4 Primary repair of defect of septum of heart NEC K12.5 Revision of repair of septum of heart NEC K12.8 Other specified repair of defect of unspecified septum of heart K13.1 Percutaneous transluminal repair of defect of interventricular septum using prosthesis K13.2 Percutaneous transluminal repair of defect of interventricular septum NEC	12.08.07						
K12.4 K12.5 K12.8 K13.1 K13.2 K13.5	K12.4 Primary repair of defect of septum of heart NEC K12.5 Revision of repair of septum of heart NEC K12.8 Other specified repair of defect of unspecified septum of heart K13.1 Percutaneous transluminal repair of defect of interventricular septum using prosthesis K13.2 Percutaneous transluminal repair of defect of interventricular septum NEC K13.5 Percutaneous transluminal repair of defect of unspecified septum using prosthesis	12.08.07						
K12.4 K12.5 K12.8 K13.1 K13.2 K13.5 K13.8	K12.4 Primary repair of defect of septum of heart NEC K12.5 Revision of repair of septum of heart NEC K12.8 Other specified repair of defect of unspecified septum of heart K13.1 Percutaneous transluminal repair of defect of interventricular septum using prosthesis K13.2 Percutaneous transluminal repair of defect of interventricular septum NEC K13.5 Percutaneous transluminal repair of defect of unspecified septum using prosthesis K13.5 A Other specified transluminal repair of defect of septum	12.08.07						
K12.4 K12.5 K12.8 K13.1 K13.2 K13.5	K12.4 Primary repair of defect of septum of heart NEC K12.5 Revision of repair of septum of heart NEC K12.8 Other specified repair of defect of unspecified septum of heart K13.1 Percutaneous transluminal repair of defect of interventricular septum using prosthesis K13.2 Percutaneous transluminal repair of defect of interventricular septum NEC K13.5 Percutaneous transluminal repair of defect of unspecified septum using prosthesis	12.08.07						
K12.4 K12.5 K12.8 K13.1 K13.2 K13.5 K13.8	K12.4 Primary repair of defect of septum of heart NEC K12.5 Revision of repair of septum of heart NEC K12.8 Other specified repair of defect of unspecified septum of heart K13.1 Percutaneous transluminal repair of defect of interventricular septum using prosthesis K13.2 Percutaneous transluminal repair of defect of interventricular septum NEC K13.5 Percutaneous transluminal repair of defect of unspecified septum using prosthesis K13.5 A Other specified transluminal repair of defect of septum	12.08.07						
K12.4 K12.5 K12.8 K13.1 K13.2 K13.5 K13.8 K13.9 K02.4	K12.4 Primary repair of defect of septum of heart NEC K12.5 Revision of repair of septum of heart NEC K12.8 Other specified repair of defect of unspecified septum of heart K13.1 Percutaneous transluminal repair of defect of interventricular septum using prosthesis K13.2 Percutaneous transluminal repair of defect of interventricular septum NEC K13.5 Percutaneous transluminal repair of defect of unspecified septum using prosthesis K13.6 Other specified transluminal repair of defect of septum K13.8 Other specified transluminal repair of defect of septum K13.9 Unspecified transluminal repair of defect of septum K13.9 Unspecified transluminal repair of defect of septum Piggyback transplantation of heart	12.37.03						
K12.4 K12.5 K12.8 K13.1 K13.2 K13.5 K13.8 K13.9 K02.4 K06.5	K12.4 Primary repair of defect of septum of heart NEC K12.5 Revision of repair of septum of heart NEC K12.5 Revision of repair of defect of unspecified septum of heart K12.8 Other specified repair of defect of interventricular septum using prosthesis K13.1 Percutaneous transluminal repair of defect of interventricular septum NEC K13.5 Percutaneous transluminal repair of defect of unspecified septum using prosthesis K13.5 Percutaneous transluminal repair of defect of septum K13.6 Other specified transluminal repair of defect of septum K13.9 Unspecified transluminal repair of defect of septum K13.9 Unspecified transluminal repair of defect of septum K13.9 Unspecified transluminal repair of defect of septum Figyback transplantation of heart Congenitally corrected transposition of great arteries repair	12.37.03 12.27.46						
K12.4 K12.5 K12.8 K13.1 K13.2 K13.5 K13.8 K13.9 K02.4 K06.5 K16.5	K12.4 Primary repair of defect of septum of heart NEC K12.5 Revision of repair of septum of heart NEC K12.5 Revision of repair of defect of unspecified septum of heart K12.8 Other specified repair of defect of unspecified septum of heart K13.1 Percutaneous transluminal repair of defect of interventricular septum using prosthesis K13.2 Percutaneous transluminal repair of defect of interventricular septum NEC K13.3 Percutaneous transluminal repair of defect of unspecified septum using prosthesis K13.4 Other specified transluminal repair of defect of septum K13.9 Unspecified transluminal repair of defect of septum K13.9 Unspecified transluminal repair of defect of septum Piggyback transplantation of heart Congenitally corrected transposition of great arteries repair K16.5 Percutaneous transluminal closure of patent oval foramen with prosthesis	12.37.03 12.27.46 12.01.07						
K12.4 K12.5 K12.8 K13.1 K13.2 K13.5 K13.8 K13.9 K02.4 K06.5 K16.5 X50.1	K12.4 Primary repair of defect of septum of heart NEC K12.5 Revision of repair of septum of heart NEC K12.8 Other specified repair of defect of unspecified septum of heart K13.1 Percutaneous transluminal repair of defect of interventricular septum using prosthesis K13.2 Percutaneous transluminal repair of defect of unspecified septum NEC K13.5 Percutaneous transluminal repair of defect of unspecified septum using prosthesis K13.5 Percutaneous transluminal repair of defect of unspecified septum using prosthesis K13.8 Other specified transluminal repair of defect of septum K13.9 Unspecified transluminal repair of defect of septum K13.9 Percutaneous transluminal repair of defect of septum K13.9 Percutaneous transluminal repair of defect of septum K13.9 Percutaneous transluminal repair of defect of septum K13.9 Percutaneous transluminal repair of defect of septum K13.9 Percutaneous transluminal repair of defect of septum K13.9 Percutaneous transluminal repair of defect of septum K16.5 Percutaneous transluminal closure of patent oval foramen with prosthesis X50.1 Direct current cardioversion	12.37.03 12.27.46 12.01.07 12.32.14						
K12.4 K12.5 K12.8 K13.1 K13.2 K13.5 K13.8 K13.9 K02.4 K06.5 K16.5	K12.4 Primary repair of defect of septum of heart NEC K12.5 Revision of repair of septum of heart NEC K12.5 Revision of repair of defect of unspecified septum of heart K12.8 Other specified repair of defect of unspecified septum of heart K13.1 Percutaneous transluminal repair of defect of interventricular septum using prosthesis K13.2 Percutaneous transluminal repair of defect of interventricular septum NEC K13.3 Percutaneous transluminal repair of defect of unspecified septum using prosthesis K13.4 Other specified transluminal repair of defect of septum K13.9 Unspecified transluminal repair of defect of septum K13.9 Unspecified transluminal repair of defect of septum Piggyback transplantation of heart Congenitally corrected transposition of great arteries repair K16.5 Percutaneous transluminal closure of patent oval foramen with prosthesis	12.37.03 12.27.46 12.01.07 12.32.14		12.87.27	12.87.28	12.87.36	12.87.37	
K12.4 K12.5 K12.8 K13.1 K13.2 K13.5 K13.8 K13.9 K02.4 K06.5 K16.5 X50.1	K12.4 Primary repair of defect of septum of heart NEC K12.5 Revision of repair of septum of heart NEC K12.8 Other specified repair of defect of unspecified septum of heart K13.1 Percutaneous transluminal repair of defect of interventricular septum using prosthesis K13.2 Percutaneous transluminal repair of defect of unspecified septum NEC K13.5 Percutaneous transluminal repair of defect of unspecified septum using prosthesis K13.5 Percutaneous transluminal repair of defect of unspecified septum using prosthesis K13.8 Other specified transluminal repair of defect of septum K13.9 Unspecified transluminal repair of defect of septum K13.9 Percutaneous transluminal repair of defect of septum K13.9 Percutaneous transluminal repair of defect of septum K13.9 Percutaneous transluminal repair of defect of septum K13.9 Percutaneous transluminal repair of defect of septum K13.9 Percutaneous transluminal repair of defect of septum K13.9 Percutaneous transluminal repair of defect of septum K16.5 Percutaneous transluminal closure of patent oval foramen with prosthesis X50.1 Direct current cardioversion	12.37.03 12.27.46 12.01.07 12.32.14	12.87.26	12.87.27	12.87.28	12.87.36	12.87.37	

These procedures are in scope of the activity analysis where the patient is under 16, or over 16 with a congenital heart defect diagnosis*:

OPCS	Procedure description			E	PCC code	es		
Code		12.01.47 12.30.74						
K16.4 K47.2	K16.4 Percutaneous transluminal atrial septum fenestration K47.2 Repair of arteriovenous fistula of coronary artery		12.30.74	12 23 13				
L02.9	Arterial duct-ligament procedure,	12.23.07	12.20.11	12.20.10				
K16.8	K16.8 Other specified other therapeutic transluminal operations on septum of heart	12.08.65						
K16.9	K16.9 Unspecified other therapeutic transluminal operations on septum of heart							
K20.8	K20.8 Other specified refashioning of atrium	12.00.29						
K24.3	K24.3 Repair of right ventricular aneurysm	12.06.38						
K24.4	K24.4 Repair of left ventricular aneurysm	12.07.37						
K38.1 K38.8	K38.1 Operations on papillary muscle K38.8 Other specified other operations on structure adjacent to valve of heart		-			-		
K45.3	K45.3 Anastomosis of mammary artery to left anterior descending coronary artery							
K45.4	K45.4 Anastomosis of mammary artery to coronary artery NEC							
K47.3	K47.3 Repair of aneurysm of coronary artery							
K47.5	K47.5 Repair of arteriovenous malformation of coronary artery							
K47.8	K47.8 Other specified repair of coronary artery							
K52.4	K52.4 Open division of accessory pathway within heart							
K52.5	K52.5 Open division of conducting system of heart NEC	12.35.53	12.35.72	12.35.80	12.35.81			
K52.6	K52.6 Incision of tissue in atria	10 20 50						
K52.8 K52.9	K52.8 Other specified open operations on conducting system of heart K52.9 Unspecified open operations on conducting system of heart	12.38.50 12.35.40						
K54.1	K52.9 Onspecified open operations on conducting system of near		12.87.22	12.87 23	12.87 24			
K54.2	K54.2 Open removal of ventricular assist device	12.87.41						
K54.8	K54.8 Other specified open heart assist operations							
K57.1	K57.1 Percutaneous transluminal ablation of atrioventricular node							
K57.2	K57.2 Percutaneous transluminal ablation of conducting system of heart NEC		12.35.48	12.35.57	12.38.40			
K57.3	K57.3 Percutaneous transluminal removal of foreign body from heart	12.45.04						
K57.4	K57.4 Percutaneous transluminal ablation of accessory pathway							
K57.5	K57.5 Percutaneous transluminal ablation of atrial wall NEC	12.35.82						
K57.6	K57.6 Percutaneous transluminal ablation of ventricular wall	12.35.83	12.45.13	10 AE 14				
K57.8 K58.1	K57.8 Other specified other therapeutic transluminal operations on heart K58.1 Percutaneous transluminal mapping of conducting system of heart NEC	12.38.25	12.45.15	12.43.14				
K58.2	K58.2 Percutaneous transluminal electrophysiological studies on conducting system of heart	13.05.12						
K58.6	K58.6 Percutaneous transluminal three dimensional electroanatomic mapping of conducting system of heart	13.05.17						
K59.1	K59.1 Implantation of cardioverter defibrillator using one electrode lead	10.00.17						
K59.2	K59.2 Implantation of cardioverter defibrillator using two electrode leads							
K59.3	K59.3 Resiting of lead of cardioverter defibrillator							
K59.4	K59.4 Renewal of cardioverter defibrillator	12.42.39						
K59.5	K59.5 Removal of cardioverter defibrillator	12.42.34	12.42.35					
K59.6	K59.6 Implantation of cardioverter defibrillator using three electrode leads							
K59.8	K59.8 Other specified cardioverter defibrillator introduced through the vein		10.10.00			10.10.05		
K59.9	K59.9 Unspecified cardioverter defibrillator introduced through the vein		12.42.33	12.42.61	12.42.64	12.42.65		
K60.1 K60.2	K60.1 Implantation of intravenous cardiac pacemaker system K60.2 Resiting of lead of intravenous cardiac pacemaker system	12.34.64	-			-		
K60.2	K60.3 Renewal of intravenous cardiac pacemaker system							
K60.4	K60.4 Removal of intravenous cardiac pacemaker system							
K60.5	K60.5 Implantation of intravenous single chamber cardiac pacemaker system							
K60.6	K60.6 Implantation of intravenous dual chamber cardiac pacemaker system							
K60.7	K60.7 Implantation of intravenous biventricular cardiac pacemaker system							
K60.8	K60.8 Other specified cardiac pacemaker system introduced through vein							
K60.9	K60.9 Unspecified cardiac pacemaker system introduced through vein	40.01.07	40.01.05	40.01.07	40.01.07			
K61.1 K61.2	K61.1 Implantation of cardiac pacemaker system NEC K61.2 Resiting of lead of cardiac pacemaker system NEC		12.34.63 12.34.84	12.34.67	12.34.85			
K61.2 K61.3	K61.2 Resiting of lead of cardiac pacemaker system NEC K61.3 Renewal of cardiac pacemaker system NEC	12.34.70	12.34.84			ł		
K61.3	K61.4 Removal of cardiac pacemaker system NEC		12.44.75			<u> </u>		
K61.5	K61.5 Implantation of single chamber cardiac pacemaker system	12.33.14						
K61.6	K61.6 Implantation of dual chamber cardiac pacemaker system	12.34.51				1		
K61.7	K61.7 Implantation of biventricular cardiac pacemaker system		12.34.73					
K61.8	K61.8 Other specified other cardiac pacemaker system							
K61.9	K61.9 Unspecified other cardiac pacemaker system	12.34.68	ļ			ļ		
K52.1	K52.1 Open ablation of atrioventricular node	40.07.07	40.07.01	40.07.40		<u> </u>		
K56.1	K56.1 Transluminal insertion of pulsation balloon into aorta		12.87.04	12.87.10		ł		
K58.5 K62.2	K58.5 Transluminal intracardiac echocardiography K62.2 Percutaneous transluminal ablation of atrial wall for atrial flutter	13.01.23	<u> </u>			<u> </u>		
K62.2	K62.3 Percutaneous transluminal ablation of conducting system of heart for atrial flutter NEC							
K62.4	K62.4 Percutaneous transluminal internal cardioversion NEC							
K64.1	K64.1 Percutaneous radiofrequency ablation of epicardium	12.38.69						
K14.1	Open enlargement of defect of atrial septum	12.01.90						
K19.1	Creation of conduit between atrium and ventricle of heart NEC	12.30.13						

These procedures are in scope of the activity analysis if patients are male aged under 31, or female aged under 41:

OPCS Code	Procedure description	EPCC codes							
K33.0			r	I	[T	1	T	
	K25.1 Allograft replacement of mitral valve	1						1	
K25.2	K25.2 Xenografi replacement of mitral valve	1						1	
	K25.3 Prospetition replacement of mitral valve								
	K25.4 Replacement of mitral valve NEC	12 03 11	12.03.84					1	
	K25.5 Mitral valve repair NEC	12.03.03	12.00.04					1	
K25.8	K25.8 Other specified plastic repair of mitral valve	12.00.00						1	
	K25.9 Unspecified plastic repair of mitral valve	12.03.00						1	
K26.1	K26.1 Allograft replacement of aortic valve	12.16.22						1	
	K26.2 Xenograft replacement of aortic valve		12.16.28						
	K26.3 Prosthetic replacement of aortic valve	12.16.29	12.10.20						
	K26.4 Replacement of actic valve NEC		12.16.33	12 16 97				1	
	K26.5 A ortic valve repair NEC	12.16.61	12.10.00	12.10.07					
	K26.8 Other specified plastic repair of aortic valve	12.10.01						1	
K26.9	K26.9 Unspecified plastic repair of aortic valve	12 16 00	12.16.11						
	K29.2 Xenograft replacement of valve of heart NEC	12.10.00							
K29.3	K29.3 Prosthetic replacement of valve of heart NEC								
	K29.4 Replacement of valve of heart NEC	12 04 18	12.04.33	12 04 45				1	
-	K30.1 Revision of plastic repair of mitral valve	12.0 1110	12.0 1.00	12.0 11 10					
	K30.2 Revision of plastic repair of aotic valve	1						1	
	K30.3 Revision of plastic repair of tricuspid valve								
K30.4	K30.4 Revision of plastic repair of pulmonary valve								
	K30.8 Other specified revision of plastic repair of valve of heart								
K31.1	K31.1 Open mitral valvotomy	12.03.01							
	K31.2 Open aortic valvotomy	12.16.02						-	
	K31.4 Open pulmonary valvotomy	12.13.02							
	K32.1 Closed mitral valvotomy								
	K32.2 Closed aortic valvotomy	12.16.04							
	K33.3 Aortic root replacement using homograft	12.16.63							
	K33.4 Aortic root replacement using mechanical prosthesis	12.16.64						-	
	K33.5 Aortic root replacement NEC		12.17.90	12.17.91					
	K33.8 Other specified operations on aortic root								
	K34.1 Annuloplasty of mitral valve	12.03.04							
	K34.2 Annuloplasty of tricuspid valve	12.02.04							
	K34.3 Annuloplasty of valve of heart NEC	12.16.14							
K34.8	K34.8 Other specified other open operations on valve of heart								
	K35.1 Percutaneous transluminal mitral valvotomy	12.03.10							
	K35.2 Percutaneous transluminal aortic valvotomy	12.16.05	12.16.25	l I			1	1	
	K35.3 Percutaneous transluminal tricuspid valvotomy								
	K35.5 Percutaneous transluminal valvuloplasty		l I	l I			1	1	
	K35.8 Other specified therapeutic transluminal operations on valve of heart	12.03.97	12.13.81	12.45.19					
	K35.9 Unspecified therapeutic transluminal operations on valve of heart	12.45.15	12.45.21	12.45.58			1	1	
K33.1	K33.1 Aortic root replacement using pulmonary valve autograft with right ventricle to pulmonary artery valved conduit	12.16.30					1	1	
	K33.2 Aortic root replacement using pulmonary valve autograft with right ventricle to pulmonary artery valved conduit and		1	1		1	1	1	
K33.2	aortoventriculoplasty	12.16.62							

These procedures are in scope of the activity analysis if pateints have a congential heart defect diagnosis* or are under 16 with another relevant: diagnosis**:

OPCS Code	Procedure description	EPCC codes								
	K18.5 Revision of valved cardiac conduit						1	1		
K18.7	K18.7 Replacement of valved cardiac conduit	12.36.10								
	K20.4 Repair of coronary sinus abnormality		12.00.55							
	K37.8 Other specified removal of obstruction from structure adjacent to valve of heart	12.08.21								
	K63.1 Angiocardiography of combination of right and left side of heart									
	K63.2 Angiocardiography of right side of heart NEC K63.3 Angiocardiography of left side of heart NEC									
K65.1	K65.1 Catheterisation of combination of right and left side of heart NEC									
K65.2	K65.2 Catheterisation of right side of heart NEC									
	K65.3 Catheterisation of left side of heart NEC									
L10.8	L10.8 Other specified repair of pulmonary artery	12.14.01	12.14.20	12.14.21	12.14.22	12.15.24				
L12.6	L12.6 Pulmonary artery ligation	12.14.31								
	Procedure involving pulmonary artery,	12.15.11								
L13.4 L13.5	L13.4 Percutaneous transluminal cutting balloon angioplasty of pulmonary artery	12.15.53	40.45.00	10 15 04						
L13.5	L13.5 Percutaneous transluminal balloon angioplasty of pulmonary artery NEC L13.6 Percutaneous transluminal insertion of stent into pulmonary artery		12.15.03 12.15.14							
L13.8	L13.8 Other specified transluminal insection of stell into pulmonary artery	12.15.25	12.13.14	12.13.30	1	1				
L21.1	L21.1 Bypass of segment of ascending aorta by anastomosis of aorta to aorta NEC	12.16.35	12.16.65		1	1		1		
L23.6	L23.6 Plastic repair of aorta and insertion of tube graft	12.18.15								
L23.8	L23.8 Other specified plastic repair of aorta	12.18.00								
L23.9	L23.9 Unspecified plastic repair of aorta	12.18.30								
L25.8	L25.8 Other specified other open operations on aorta		12.17.31							
L26.1	L26.1 Percutaneous transluminal balloon angioplasty of aorta		12.18.08							
L26.2 L26.5	L26.2 Percutaneous transluminal angioplasty of aorta NEC	12.18.27	12 10 00	12 10 10				┨────		
L26.5 L28.3	L26.5 Percutaneous transluminal insertion of stent into aorta L28.3 Endovascular stenting for thoracic aortic aneurysm	12.18.17	12.18.22	12.10.48	ł	ł	<u> </u>	 		
L20.3	L70.9 Unspecified other open operations on other artery	12.18.70						<u> </u>		
L79.9	L79.9 Unspecified other operations on vena cava		12.00.42	1	1	1	1	1		
L80.1	L80.1 Repair of pulmonary vein stenosis	12.00.03						1		
L80.2	L80.2 Percutaneous transluminal balloon angioplasty of pulmonary vein		12.00.24							
L80.3	L80.3 Percutaneous transluminal cutting balloon angioplasty of pulmonary vein	12.00.23								
L80.4	L80.4 Percutaneous transluminal insertion of stent into pulmonary vein	12.00.22								
L80.9	Pulmonary vein procedure,		12.29.52							
L93.8	L93.8 Other specified other open operations on vein		12.00.83							
L93.9 L94.1	Systemic vein procedure, L94.1 Percutaneous transluminal embolisation of vein	12.00.30 12.70.08								
L94.1 L94.5	L94.5 Percutaneous transluminal insertion of stent into vein NEC		12.00.44	12 20 60						
L94.7	L94.7 Percutaneous transluminal balloon angioplasty of vein NEC	12.00.43	12.00.44	12.30.00						
L97.9	L97.9 Unspecified other operations on blood vessel	12.33.51								
K01.1	K01.1 Allotransplantation of heart and lung	12.32.13								
K01.9	K01.9 Unspecified transplantation of heart and lung				1	1				
	K02.1 Allotransplantation of heart NEC		12.37.06							
	K02.3 Implantation of prosthetic heart	12.37.04								
	K02.6 Revision of transplantation of heart NEC									
K02.8 K02.9	K02.8 Other specified other transplantation of heart	12.37.01								
	K02.9 Unspecified other transplantation of heart K16.6 Percutaneous transluminal chemical mediated septal ablation		12.23.42							
	K22.2 Repair of atrium NEC	12.07.19	12.23.42							
	K22.8 Other specified other operations on wall of atrium									
	K22.9 Unspecified other operations on wall of atrium	12.01.30	12.01.60							
K23.3	K23.3 Repair of wall of heart NEC				1	1				
	K23.8 Other specified other operations of wall of heart									
	K24.6 Myectomy of left ventricular outflow tract	12.07.11								
	K24.8 Other specified other operations on ventricles of heart	12.06.00	12.07.00							
	K53.2 Exploration of heart NEC									
	K53.9 Unspecified other incision of heart K55.2 Open chest massage of heart									
K55.8	K55.8 Other specified other open operations on heart	12 32 21	12.33.60							
K56.2	K56.2 Transponded insertion of heart assist system NEC	12.02.21	12.00.00							
K56.3	K56.3 Transluminal maintenance of heart assist system									
K56.4	K56.4 Transluminal removal of heart assist system									
K56.8	K56.8 Other specified transluminal heart assist operations									
K56.9	K56.9 Unspecified transluminal heart assist operations	40.15 -	10.1-		I	I		<u> </u>		
	K57.9 Unspecified other therapeutic transluminal operations on heart		12.45.59					───		
K58.3 K58.4	K58.3 Percutaneous transluminal right ventricular biopsy K58.4 Percutaneous transluminal left ventricular biopsy	12.06.25								
K58.8	K58.8 Other specified diagnostic transluminal operations on heart									
K58.9	K58.9 Unspecified diagnostic transluminal operations on heart	12.45.07	13.05.01	13.05.05	13.05.06	13.05.07	13.05.08	13.05.13		
K62.8	K62.8 Other specified therapeutic transluminal operations on heart	12.10.01	10.00.01	10.00.00	10.00.00	10.00.07	10.00.00	10.00.10		
K62.9	K62.9 Unspecified therapeutic transluminal operations on heart							1		
K63.6	K63.6 Coronary arteriography NEC				1	1				
K63.8	K63.8 Other specified contrast radiology of heart									
K63.9	K63.9 Unspecified contrast radiology of heart									
K65.4	K65.4 Catheterisation of left side of heart via atrial transeptal puncture	12.45.01	ļ		<u> </u>	<u> </u>		ļ		
K65.8	K65.8 Other specified catheterisation of heart	10 45 00	40.45.05	40.45.05	40.05.1	40.05.15	40.05.15	 		
K65.9 K66.8	K65.9 Unspecified catheterisation of heart K66.8 Other specified other operations on heart	12.45.00	12.45.06	12.45.30	13.05.14	13.05.15	13.05.16	───		
	K66.9 Unspecified other operations on heart		ł	}	ł	ł	<u> </u>	<u> </u>		
K67.8	K67.8 Other specified excision of pericardium	12.32.09						<u> </u>		
K67.9	K67.9 Unspecified excision of pericardium		1		1	1	1	1		
K68.1	K68.1 Decompression of cardiac tamponade							1		
K68.2	K68.2 Pericardiocentesis NEC	12.32.40	12.32.41							
K68.8	K68.8 Other specified drainage of pericardium									
K68.9	K68.9 Unspecified drainage of pericardium									
	K69.1 Freeing of adhesions of pericardium		ļ		L	L				
K69.2	K69.2 Fenestration of pericardium	12.32.46	<u> </u>	ļ	<u> </u>	<u> </u>	 	4		
K69.8 K69.9	K69.8 Other specified incision of pericardium K69.9 Unspecified incision of pericardium									
	K03.9 Unspecified Incision of pericardium K71.1 Biopsy of lesion of pericardium	12.32.53			<u> </u>	<u> </u>				
147-141	te an anosy or reason or periodicular	12.02.03	l	l	I	I	l	4		

K71.2	K71.2 Repair of pericardium						
K71.4	K71.4 Exploration of pericardium						
K71.8	K71.8 Other specified other operations on pericardium	12.32.59					
K77.1	K77.1 Percutaneous transluminal pericardiocentesis	12.32.43					
K77.8	K77.8 Other specified transluminal drainage of pericardium						
K77.9	K77.9 Unspecified transluminal drainage of pericardium						
K45.5	K45.5 Anastomosis of thoracic artery to coronary artery NEC						
K45.6	K45.6 Revision of connection of thoracic artery to coronary artery						
K45.8	K45.8 Other specified connection of thoracic artery to coronary artery						
K45.9	K45.9 Unspecified connection of thoracic artery to coronary artery						
K46.1	K46.1 Double implantation of mammary arteries into heart						
K46.3	K46.3 Implantation of mammary artery into heart NEC						
K46.5	K46.5 Revision of implantation of thoracic artery into heart						
K46.8	K46.8 Other specified other bypass of coronary artery						
K46.9	K46.9 Unspecified other bypass of coronary artery						
K47.4	K47.4 Repair of rupture of coronary artery						
K63.4	K63.4 Coronary arteriography using two catheters						
K63.5	K63.5 Coronary arteriography using single catheter						
K64.8	K64.8 Other specified						
K64.9	K64.9 Unspecified						
K24.9	Unspecified other operations on ventricles of heart	12.06.26	12.07.26				
K28.9	Unspecified plastic repair of pulmonary valve	12.13.00					
K29.5	Repair of valve of heart NEC	12.04.20	12.04.40	12.48.01	12.48.02	12.90.01	
K34.9	Unspecified other open operations on valve of heart	12.46.00					
K38.3	Operations on mitral subvalvar apparatus	12.03.19					
K38.4	Unspecified other operations on structure adjacent to valve of heart	12.16.90					
K38.9	Unspecified other operations on structure adjacent to valve of heart	12.16.80					
K48.9	Unspecified other open operations on coronary artery	12.23.09					

These procedures are in scope of the analysis if they relate to any of the above:

OPCS Code	Procedure description	EPCC codes						
T03.2	T03.2 Reopening of chest and reexploration of intrathoracic operation site and surgical arrest of postoperative bleeding	12.32.18						
T05.1	T05.1 Suture of chest wall	12.65.60						
T05.8	T05.8 Other specified other operations on chest wall	12.65.56						
T16.2	T16.2 Plication of diaphragm	12.32.70						
T89.3	T89.3 Ligation of lymphatic duct	12.32.28						

<u>Diagnoses</u>

* The following diagnoses are considered congential heart defect diganoses:

0000 0201 0 Common antwist trunk Inc. 1000 0201 0 2021 Double outing right vertricle Inc. 1000 0201 0 2021 Double outing right vertricle Inc. 1000 0201 0 2021 Double outing right vertricle Inc. 1000 0201 0 2021 Double outing right vertricle Inc. 1000 0201 0 2021 Double outing right vertricle Inc. 1000 0201 0 2021 Double outing right vertricle Inc. 1000 0201 0 2021 Double outing right vertricle Inc. 1000 0201 0 2021 Double outing right vertricle Inc. 1000 0201 0 2021 Double outing right vertricle Inc. 1000 0201 0 2021 Double outing right vertricle Inc. 1000 0210 0 210 Double outing right vertricle Inc. 1000 0211 0 211 A trial spatial defect Inc. 1000 0211 0 211 3 Chier Congenital malformation of cardiac septa Inc. 1000 0211 0 211 0 Chier Congenital malformation of cardiac septa Inc. 1000 0212 0 Dimonary valve atesia Inc. 1000 0212 0 Dimonary valve atesia Inc. 1000 0212 0 Dimonary valve atesia Inc. 1000 0222 0 Dimonary valve atesia Inc. 1000 0223 0 Domenot anormation of tricle septa <th>ICD-10</th> <th></th> <th></th>	ICD-10		
20.1 20.2 Double outlet right ventratio 20.2 20.2 Double induct winthic connection 20.3 Double induct ventration International sector 20.4 20.4 Double induct ventration International sector 20.3 Double induct ventration International sector 20.4 20.4 Double induct ventration International sector 20.4 Double induct ventration International sector 20.4 Double induct ventration International sector 20.8 Double induct ventration International sector 20.8 Double induct ventration International sector 20.4 Double induct ventration International sector 20.1 Ortin A strategy of Fall International sector 21.1 Ortin A strategy of Fall International sector 21.2 Ortin Origential internation of cardiac septa International sector 22.1 Ortin Origential internation of cardiac septa International sector 22.2 Ortin Origential internation of cardiac septa International sector 22.3 Ortin Origential internation of cardiac septa International sector 22.4 Ortin Origential internation of cardiac septa International sector 22.2 <td< th=""><th></th><th>Diagnosis description</th><th></th></td<>		Diagnosis description	
2020 2020 <td< td=""><td></td><td></td><td></td></td<>			
202.0 202.0 <td< td=""><td></td><td></td><td></td></td<>			
2204 202.5 Discondari attiveyontincial aconscion Image: Construction of attial appendages 2208 220.5 Discondari attiveyontincial aconscion Image: Construction of attial appendages 2208 220.5 Other acongenital mattermations of cardiac chambers and connections. unspecified Image: Construction of attial appendages 220.1 C21.0 Detrincutar septial defect Image: Construction of attial appendages 221.1 C21.2 Attroentricutar septial defect Image: Construction of attial appendages 221.1 C21.2 Attroentricutar septial defect Image: Construction of attraction of acrdiac septim, unspecified 221.1 C21.2 Congenital mattermations of cardiac septim, unspecified Image: Construction of attraction of acrdiac septim, unspecified 221.1 C21.2 Congenital pubmonary valve attractions Image: Construction of acrdiac septim, unspecified 222.1 C22.1 Congenital pubmonary valve attractions Image: Construction of acrdiac septim, unspecified 222.2 C22.5 Congenital mattermations of acrdiac septim, unspecified Image: Construction of acrdiac septim, unspecified 222.1 C22.1 Congenital pubmonary valve attractions Image: Construction of acrdiac septim, unspecified 222.2 C22.5 Congenital mattermations of acrdiac valve Image: Construction of acrdiac valve 223.1 C22.5 Congenital mattermation of acrdiac valve Image: Construction of acrdiac valve 223			
202.6 202.6 Disconteristic di artis appendages 202.8 202.8 Dimersion di artis appendages 202.9 202.9 Congenital malformations of cardiac chambers and connections, unspecified 202.1 202.1 Ventricular septial defect 202.1 202.1 Atrial septial defect 202.1 202.1 Atrial septial defect 202.1 202.1 Atrial septial defect 202.1 202.1 Atrial septial defect 202.1 202.1 Atrial septial defect 202.1 202.1 Compenital malformation of cardiac septian, unspecified 202.1 202.1 Congenital pulmonary value settosia 202.2 Congenital pulmonary value settosia 202.2 202.2 Congenital pulmonary value settosian 202.2 202.2 Congenital malformations of fucuopial value 202.2 202.2 Congenital malformation of tricupial value, unspecified 202.2 202.2 Congenital malformation of tricupial value, unspecified 202.3 202.3 Congenital malformation of tricupial value, unspecified 202.3 202.3 Coragenital malformation of actica nd mitral valv			
2020. 2020. Biomerism of atrial appendages 2020. 2020. Concential mail/ormation of cardiac chambers and connections. 2020. 2020. Ventricular septial defect 2021. 2021. A Univerticular septial defect 2021. 2021. A Congenital mail/ormations of cardiac septia 2021. 2021. Congenital mail/ormation cardiac septial 2021. 2021. Congenital pulmonary valve atnesia 2022. 1022.0. Duminosity pulmonary valve 2022.0. Duminosity pulmonary valve atnesia 1000000000000000000000000000000000000			
220.8 220.9 <td< td=""><td></td><td></td><td></td></td<>			
220.9 220.9 Congenial mellormation of cardiac chambers and connections, unspecified Image: Constraint of the constrain			
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797.7 787.7 Personal history of congenital malformations, deformations and chromosomal abnormalities			
	Z87.7	Z87.7 Personal history of congenital malformations, deformations and chromosomal abnormalities	

** the following diagnoses are consdiered relevant for some procedures where the pateint is aged under 16:

ICD-10 Code	Diagnosis description
127.8	127.8 Other specified pulmonary heart diseases
172.9	172.9 Aneurysm of unspecified site
100	Acute rheumatic fever,
101	Rheumatic fever with cardiac involvement,
109.1	109.1 Rheumatic diseases of endocardium, valve unspecified
105.9	105.9 Mitral valve disease, unspecified
106.9	106.9 Rheumatic aortic valve disease, unspecified
133.0	133.0 Acute and subacute infective endocarditis
151.8	I51.8 Other ill-defined heart diseases
I40.0	140.0 Infective myocarditis
B57.2	B57.2 Chagas' disease (chronic) with heart involvement
130.1	130.1 Infective pericarditis
187.9	187.9 Disorder of vein, unspecified
187.1	187.1 Compression of vein
128.9	128.9 Disease of pulmonary vessels, unspecified
128.8	128.8 Other specified diseases of pulmonary vessels
197.8	197.8 Other postprocedural disorders of circulatory system NEC
138	Heart valvar abnormality: acquired,
136.9	136.9 Nonrheumatic tricuspid valve disorder, unspecified
134.9	134.9 Nonrheumatic mitral valve disorder, unspecified

134.2	I34.2 Nonrheumatic mitral (valve) stenosis
134.0	134.0 Mitral (valve) insufficiency
177.8	177.8 Other specified disorders of arteries and arterioles
137.9	137.9 Pulmonary valve disorder, unspecified
137.0	137.0 Pulmonary valve stenosis
137.1	I37.1 Pulmonary valve insufficiency
137.8	137.8 Other pulmonary valve disorders
135.9	135.9 Aortic valve disorder, unspecified
135.0	135.0 Aortic (valve) stenosis
135.1	I35.1 Aortic (valve) insufficiency
150.1	ISO.1 Left ventricular failure
150.0	I50.0 Congestive heart failure
150.0	I51.0 Cardiac septal defect, acquired
123.2	
123.2	123.2 Ventric sep defect as curr comp fol acut myocardal infarc
	I51.4 Myocarditis, unspecified
150.9	150.9 Heart failure, unspecified
142.9	142.9 Cardiomyopathy, unspecified
142.8	142.8 Other cardiomyopathies
142.2	142.2 Other hypertrophic cardiomyopathy
142.0	142.0 Dilated cardiomyopathy
142.4	142.4 Endocardial fibroelastosis
142.5	142.5 Other restrictive cardiomyopathy
142.7	I42.7 Cardiomyopathy due to drugs and other external agents
E63.9	E63.9 Nutritional deficiency, unspecified
M35.9	M35.9 Systemic involvement of connective tissue, unspecified
127.0	127.0 Primary pulmonary hypertension
127.8	127.8 Other specified pulmonary heart diseases
126.9	126.9 Pulmonary embolism without mention of acute cor pulmonale
177.1	177.1 Stricture of artery
171.9	171.9 Aortic aneurysm of unspec site, without mention of rupture
171.0	I71.0 Dissection of aorta [any part]
171.2	I71.2 Thoracic aortic aneurysm, without mention of rupture
171.4	I71.4 Abdominal aortic aneurysm, without mention of rupture
171.1	I71.1 Thoracic aortic aneurysm, ruptured
171.5	I71.5 Thoracoabdominal aortic aneurysm, ruptured
177.6	177.6 Arteritis, unspecified
125.9	125.9 Chronic ischaemic heart disease, unspecified
121.9	I21.9 Acute myocardial infarction, unspecified
110	Systemic hypertension,
115.9	115.9 Secondary hypertension, unspecified
115.8	115.8 Other secondary hypertension
131.9	I31.9 Disease of pericardium, unspecified
130.9	I30.9 Acute pericarditis, unspecified
131.1	I31.1 Chronic constrictive pericarditis
131.3	I31.3 Pericardial effusion (noninflammatory)
197.9	I97.9 Postprocedural disorder of circulatory system, unspecified
125.1	I25.1 Atherosclerotic heart disease
149.9	149.9 Cardiac arrhythmia, unspecified
146.9	146.9 Cardiac arrest, unspecified
149.8	149.8 Other specified cardiac arrhythmias
147.1	I47.1 Supraventricular tachycardia
I46.1	146.1 Sudden cardiac death, so described
149.1	I49.1 Atrial premature depolarization
148	Atrial flutter,
145.6	145.6 Pre-excitation syndrome
145.8	145.8 Other specified conduction disorders
147.2	I47.2 Ventricular tachycardia
149.0	I49.0 Ventricular fibrillation and flutter
149.3	149.3 Ventricular premature depolarization
145.9	145.9 Conduction disorder, unspecified
145.5	I45.5 Other specified heart block
149.5	149.5 Sick sinus syndrome
149.5	144.0 Atrioventricular block, first degree
144.0	144.1 Atrioventricular block, second degree
144.1	144.2 Atrioventricular block, second degree
145.1	145.1 Other and unspecified right bundle-branch block
144.7	144.7 Left bundle-branch block, unspecified
M30.3	M30.3 Mucocutaneous lymph node syndrome [Kawasaki]
T82.9	T82.9 Unsp comps cardiac & vasc prosthet devs implants & grafts
T82.5	T82.5 Mech compl of other cardiac & vascular devices and implants
T82.8	T82.8 Oth comps of cardic & vasc prosthet devs implants & grafts
T81.8	T81.8 Other complications of procedures, not elsewhere classified
D48.7	D48.7 Neoplasm uncert or unknown behaviour of oth spec sites
S26	Traumatic injury of heart,
T86.2	T86.2 Heart transplant failure and rejection
T86.3	T86.3 Heart-lung transplant failure and rejection
C88.9	C88.9 Malignant immunoproliferative disease, unspecified
T82.1	T82.1 Mechanical complication of cardiac electronic device
134.1	I34.1 Mitral (valve) prolapse
199	199 Other and unspecified disorders of circulatory system
J81	J81 Pulmonary oedema
Q32.4	Other congenital malformations of bronchus
Q33.2	Q33.2 Sequestration of lung
Q89.9	Q89.9 Congenital malformation, unspecified
R01.0	R01.1 Cardiac murmur, unspecified
	no no estado mannar, anoposition
R0/ 2	R94.3 Abnormal results of cardiovascular function studies
R94.3 T82.0	R94.3 Abnormal results of cardiovascular function studies T82.0 Mechanical complication of heart valve prosthesis

The above procedures include all operations and interventions on the European Peadeatric Cardiac Code (EPCC) list with the following exceptions:

These procedures are never considered procedures for congenital heart defects:

OPCS Code	Procedure description	EPCC Codes							
K23.5	Partial left ventriculectomy	12.07.38							
L12.4	L12.4 Open embolectomy of pulmonary artery	12.15.48	12.15.80	12.15.81					
L25.4	L25.4 Operations on aneurysm of aorta NEC	12.16.42	12.16.66	12.16.67	12.16.68				
K44.9	K44.9 Unspecified other replacement of coronary artery	12.23.08							
K50.2	K50.2 Percutaneous transluminal coronary thrombolysis using streptokinase	12.23.30							
K49.9	K49.9 Unspecified transluminal balloon angioplasty of coronary artery	12.23.31							
K75.8	K75.8 Other specified percutaneous transluminal balloon angioplasty and stenting of coronary artery	12.23.38							
K55.5	K55.5 Resection of heart tumour	12.32.10							
K55.4	K55.4 Open removal of cardiac vegetations NEC	12.32.20							
K55.3	K55.3 Open removal of cardiac thrombus	12.32.22							
K55.6	K55.6 Repair of traumatic injury of heart	12.33.10							
K54.9	Unspecified open heart assist operations	12.87.01							
K23.6	Cardiomyoplasty	12.87.31							
L13.1	L13.1 Percutaneous transluminal embolectomy of pulmonary artery	12.15.49							
K62.1	K62.1 Percutaneous transluminal ablation of pulmonary vein to left atrium conducting system	12.35.84							

These codes are subsidiary classifications of methods of opertation, rather than distinct procedures:

OPCS Code	Procedure description				
Y73.1	Y73 Facilitating operations NOC	12.00.90	12.00.92		
Y71.3	Y71 Late operations NOC	12.43.00	12.43.06		
Y74.4	Y74 Minimal access to thoracic cavity	12.40.06			
Y74.9	Y74 Minimal access to thoracic cavity	12.40.13			
Y74.3	Y74 Minimal access to thoracic cavity	12.40.15			
Y49.1	Y49 Approach through thoracic cavity	12.40.29	12.40.30		
Y49.3	Y49 Approach through thoracic cavity	12.40.00	12.40.16		
Y30.8	Y30 Incision of organ NOC	12.40.99			
Y69.8	Y69 Harvest of other tissue	12.37.70			
Y71.9	Y71 Late operations NOC	12.32.00			
Y15.6	Y15 Attention to stent in organ NOC	12.45.10			
Y14.8	Y14 Placement of stent in organ NOC	12.45.11			
Y40.3	Y40 Dilation of organ NOC	12.45.12			

These procedure are non-cardiac procedures:

OPCS Code	Procedure description	EPCC Codes					
E53.9	E53.9 Unspecified transplantation of lung	12.37.60					
E53.2	E53.2 Single lung transplant	12.37.13					
E53.1	E53.1 Double lung transplant	12.37.20					
X40.1	X40.1 Renal dialysis	12.32.90					