Disclaimer

The FDA chose a specific outcome algorithm that met its need for a given medical product-outcome assessment. The use of a specific outcome algorithm in a Sentinel assessment should not be interpreted as an endorsement from FDA to use the algorithm for all safety assessments. Investigators should always consider the objective, study design, analytic approach, and data source of a given medical product safety assessment when choosing the outcome algorithm. The suitability of an outcome algorithm may change when applied to different scenarios. For additional information, please refer to the
Best Practices for Conducting and Reporting Pharmacoepidemiologic Safety Studies Using Electronic Healthcare Data

guidance document provided by the FDA.

Overview

Title	Cardiac Malformations Algorithm Defined in "Cardiac Malformations and Oral Clefts Following in Utero Exposure to Cyclobenzaprine: A Propensity Score Stratified Analysis"
Request ID	cder_mpl2p_wp066
Description	This report lists International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) diagnosis codes, International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) procedure codes, Current Procedural Terminology, Fourth Revision (CPT-4) Procedure Codes, and Healthcare Common Procedure Coding System (HCPCS) procedure codes and algorithms used to define cardiac malformations in this request. For additional information about the algorithm and how it was defined relative to the cohort and exposure(s) of interest in the analysis, refer to the analysis webpage here: https://www.sentinelinitiative.org/studies/drugs/individual-drug-analyses/cardiac-malformations-and-oral-clefts-following-utero
Outcome	Cardiac Malformations
Algorithm to Define Outcome	The cardiac malformation outcome is defined as evidence of any of the 11 subgroups of cardiac malformation described below OR an “overall” cardiac malformation in infant claims from date of birth (DOB) to DOB + 90 days or maternal claims from delivery and delivery + 30 days. For defining the subgroup cardiac malformation, ≥2 dates of diagnostic codes within the malformation subgroup (Code List 1), OR ≥1 date with a diagnostic code for the malformation subgroup (Code List 1) and a cardiac procedure code (Code List 2), OR ≥1 date with a diagnostic code for the malformation group (Code List 1) and infant death within 90 days of delivery was used. Overall cardiac malformation required presence of ≥ 2 dates with a qualifying diagnostic code across different subgroups, excluding codes that were not considered as outcome if the pregnancy was a preterm birth. Any diagnosis code for cardiac malformations in the maternal record between pregnancy start and pregnancy start + 105 days, and a diagnosis code for cardiac malformations in the maternal record between delivery and delivery + 30 days, with no codes in the linked infant record between DOB and DOB + 90 days were considered as pre-existing maternal defects.
Query Period	January 1, 2012 - August 31, 2025
Request Send Date	June 24, 2026

Glossary

Care Setting - type of medical encounter or facility where the exposure, event, or condition code was recorded. Possible care settings include: Inpatient Hospital Stay (IP), Non-Acute Institutional Stay (IS), Emergency Department (ED), Ambulatory Visit (AV), and Other Ambulatory Visit (OA). For laboratory results, possible care settings include: Emergency department (E), Home (H), Inpatient (I), Outpatient (O), or Unknown or missing (U)

Outcome - outcome of interest (either primary or secondary)

Principal Diagnosis (PDX) - diagnosis or condition established to be chiefly responsible for admission of the patient to the hospital. 'P' = principal diagnosis, 'S' = secondary diagnosis, 'X' = unspecified diagnosis, '.' = blank. Along with the Care Setting values, forms the Caresetting/PDX parameter.

Query Period - period in which the modular program looks for exposures and outcomes of interest

Request Send Date - date the request was sent to Sentinel Data Partners

Code List 1. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes, Current Procedural Terminology, Fourth Revision (CPT-4) Procedure Codes, and Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Cardiac Malformations in this Request

Code	Description	Code Category	Code Type
	Cardiac Malformations, Conotruncal Defects		
745.0	Bulbus cordis anomalies and anomalies of cardiac septal closure, common truncus	Diagnosis	ICD-9-CM
745.1	Transposition of great vessels	Diagnosis	ICD-9-CM
745.10	Complete transposition of great vessels	Diagnosis	ICD-9-CM
745.11	Transposition of great vessels, double outlet right ventricle	Diagnosis	ICD-9-CM
745.12	Corrected transposition of great vessels	Diagnosis	ICD-9-CM
745.19	Other transposition of great vessels	Diagnosis	ICD-9-CM
745.2	Tetralogy of Fallot	Diagnosis	ICD-9-CM
Q20.0	Common arterial trunk	Diagnosis	ICD-10-CM
Q20.1	Double outlet right ventricle	Diagnosis	ICD-10-CM
Q20.2	Double outlet left ventricle	Diagnosis	ICD-10-CM
Q20.3	Discordant ventriculoarterial connection	Diagnosis	ICD-10-CM
Q20.5	Discordant atrioventricular connection	Diagnosis	ICD-10-CM
Q20.8	Other congenital malformations of cardiac chambers and connections	Diagnosis	ICD-10-CM
Q21.3	Tetralogy of Fallot	Diagnosis	ICD-10-CM
	Cardiac Malformation, Single Ventricle		
745.3	Bulbus cordis anomalies and anomalies of cardiac septal closure, common ventricle	Diagnosis	ICD-9-CM
Q20.4	Double inlet ventricle	Diagnosis	ICD-10-CM
	Cardiac Malformation, Ventricular Septal Defect		
745.4	Ventricular septal defect	Diagnosis	ICD-9-CM
Q21.0	Ventricular septal defect	Diagnosis	ICD-10-CM
	Cardiac Malformation, Atrial Septal Defect		
745.5	Ostium secundum type atrial septal defect	Diagnosis	ICD-9-CM
Q21.1	Atrial septal defect	Diagnosis	ICD-10-CM
Q21.10	Atrial septal defect, unspecified	Diagnosis	ICD-10-CM
Q21.11	Secundum atrial septal defect	Diagnosis	ICD-10-CM
Q21.12	Patent foramen ovale	Diagnosis	ICD-10-CM
Q21.13	Coronary sinus atrial septal defect	Diagnosis	ICD-10-CM
Q21.14	Superior sinus venosus atrial septal defect	Diagnosis	ICD-10-CM
Q21.15	Inferior sinus venosus atrial septal defect	Diagnosis	ICD-10-CM
Q21.16	Sinus venosus atrial septal defect, unspecified	Diagnosis	ICD-10-CM
Q21.19	Other specified atrial septal defect	Diagnosis	ICD-10-CM
	Cardiac Malformation, AV Septal Defect		
745.6	Endocardial cushion defects	Diagnosis	ICD-9-CM
745.60	Unspecified type congenital endocardial cushion defect	Diagnosis	ICD-9-CM
745.61	Ostium primum defect	Diagnosis	ICD-9-CM
745.69	Other congenital endocardial cushion defect	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
Q21.2	Atrioventricular septal defect	Diagnosis	ICD-10-CM
Q21.20	Atrioventricular septal defect, unspecified as to partial or complete	Diagnosis	ICD-10-CM
Q21.21	Partial atrioventricular septal defect	Diagnosis	ICD-10-CM
Q21.22	Transitional atrioventricular septal defect	Diagnosis	ICD-10-CM
Q21.23	Complete atrioventricular septal defect	Diagnosis	ICD-10-CM
	Cardiac Malformation, Right Sided Defects		
746.00	Unspecified congenital pulmonary valve anomaly	Diagnosis	ICD-9-CM
746.83	Congenital infundibular pulmonic stenosis	Diagnosis	ICD-9-CM
746.3	Congenital stenosis of aortic valve	Diagnosis	ICD-9-CM
746.1	Congenital tricuspid atresia and stenosis	Diagnosis	ICD-9-CM
746.2	Ebstein's anomaly	Diagnosis	ICD-9-CM
746.09	Other congenital anomalies of pulmonary valve	Diagnosis	ICD-9-CM
746.01	Congenital atresia of pulmonary valve	Diagnosis	ICD-9-CM
Q22	Congenital malformations of pulmonary and tricuspid valves	Diagnosis	ICD-10-CM
Q22.0	Pulmonary valve atresia	Diagnosis	ICD-10-CM
Q22.3	Other congenital malformations of pulmonary valve	Diagnosis	ICD-10-CM
Q22.4	Congenital tricuspid stenosis	Diagnosis	ICD-10-CM
Q22.5	Ebstein's anomaly	Diagnosis	ICD-10-CM
Q22.6	Hypoplastic right heart syndrome	Diagnosis	ICD-10-CM
Q22.8	Other congenital malformations of tricuspid valve	Diagnosis	ICD-10-CM
Q22.9	Congenital malformation of tricuspid valve, unspecified	Diagnosis	ICD-10-CM
Q24.3	Pulmonary infundibular stenosis	Diagnosis	ICD-10-CM
747.31	Pulmonary artery coarctation and atresia	Diagnosis	ICD-9-CM
747.39	Other anomalies of pulmonary artery and pulmonary circulation	Diagnosis	ICD-9-CM
746.02	Congenital stenosis of pulmonary valve	Diagnosis	ICD-9-CM
747.32	Pulmonary arteriovenous malformation	Diagnosis	ICD-9-CM
Q22.1	Congenital pulmonary valve stenosis	Diagnosis	ICD-10-CM
Q25.5	Atresia of pulmonary artery	Diagnosis	ICD-10-CM
Q25.6	Stenosis of pulmonary artery	Diagnosis	ICD-10-CM
Q25.7	Other congenital malformations of pulmonary artery	Diagnosis	ICD-10-CM
Q25.71	Coarctation of pulmonary artery	Diagnosis	ICD-10-CM
Q25.72	Congenital pulmonary arteriovenous malformation	Diagnosis	ICD-10-CM
Q25.79	Other congenital malformations of pulmonary artery	Diagnosis	ICD-10-CM
747.3	Anomalies of pulmonary artery	Diagnosis	ICD-9-CM
	Cardiac Malformation, Left Sided Defects		
746.5	Congenital mitral stenosis	Diagnosis	ICD-9-CM
746.7	Hypoplastic left heart syndrome	Diagnosis	ICD-9-CM
747.2	Other congenital anomaly of aorta	Diagnosis	ICD-9-CM
746.82	Cor triatriatum	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
746.81	Congenital subaortic stenosis	Diagnosis	ICD-9-CM
747.10	Coarctation of aorta (preductal) (postductal)	Diagnosis	ICD-9-CM
747.22	Congenital atresia and stenosis of aorta	Diagnosis	ICD-9-CM
747.20	Unspecified congenital anomaly of aorta	Diagnosis	ICD-9-CM
747.1	Coarctation of aorta	Diagnosis	ICD-9-CM
746.3	Congenital stenosis of aortic valve	Diagnosis	ICD-9-CM
747.21	Congenital anomaly of aortic arch	Diagnosis	ICD-9-CM
747.11	Congenital interruption of aortic arch	Diagnosis	ICD-9-CM
747.29	Other congenital anomaly of aorta	Diagnosis	ICD-10-CM
Q23	Congenital malformations of aortic and mitral valves	Diagnosis	ICD-10-CM
Q23.0	Congenital stenosis of aortic valve	Diagnosis	ICD-10-CM
Q23.2	Congenital mitral stenosis	Diagnosis	ICD-10-CM
Q23.4	Hypoplastic left heart syndrome	Diagnosis	ICD-10-CM
Q23.8	Other congenital malformations of aortic and mitral valves	Diagnosis	ICD-10-CM
Q23.9	Congenital malformation of aortic and mitral valves, unspecified	Diagnosis	ICD-10-CM
Q24.2	Cor triatriatum	Diagnosis	ICD-10-CM
Q24.4	Congenital subaortic stenosis	Diagnosis	ICD-10-CM
Q25.1	Coarctation of aorta	Diagnosis	ICD-10-CM
Q25.2	Atresia of aorta	Diagnosis	ICD-10-CM
Q25.21	Interruption of aortic arch	Diagnosis	ICD-10-CM
Q25.29	Other atresia of aorta	Diagnosis	ICD-10-CM
Q25.3	Supravalvular aortic stenosis	Diagnosis	ICD-10-CM
Q25.4	Other congenital malformations of aorta	Diagnosis	ICD-10-CM
Q25.40	Congenital malformation of aorta unspecified	Diagnosis	ICD-10-CM
Q25.41	Absence and aplasia of aorta	Diagnosis	ICD-10-CM
Q25.42	Hypoplasia of aorta	Diagnosis	ICD-10-CM
Q25.43	Congenital aneurysm of aorta	Diagnosis	ICD-10-CM
Q25.44	Congenital dilation of aorta	Diagnosis	ICD-10-CM
Q25.45	Double aortic arch	Diagnosis	ICD-10-CM
Q25.46	Tortuous aortic arch	Diagnosis	ICD-10-CM
Q25.47	Right aortic arch	Diagnosis	ICD-10-CM
Q25.48	Anomalous origin of subclavian artery	Diagnosis	ICD-10-CM
Q25.49	Other congenital malformations of aorta	Diagnosis	ICD-10-CM
Q23.81	Bicuspid aortic valve	Diagnosis	ICD-10-CM
Q23.82	Congenital mitral valve cleft leaflet	Diagnosis	ICD-10-CM
Q23.88	Other congenital malformations of aortic and mitral valves	Diagnosis	ICD-10-CM
	Cardiac Malformation, Patent Ductus Arteriosus		
747.0	Patent ductus arteriosus	Diagnosis	ICD-9-CM
Q25.0	Patent ductus arteriosus	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
	Cardiac Malformation, Great Cardiac Veins		
747.4	Congenital anomalies of great veins	Diagnosis	ICD-9-CM
747.41	Total congenital anomalous pulmonary venous connection	Diagnosis	ICD-9-CM
747.42	Partial congenital anomalous pulmonary venous connection	Diagnosis	ICD-9-CM
Q26.0	Congenital stenosis of vena cava	Diagnosis	ICD-10-CM
Q26.1	Persistent left superior vena cava	Diagnosis	ICD-10-CM
Q26.2	Total anomalous pulmonary venous connection	Diagnosis	ICD-10-CM
Q26.3	Partial anomalous pulmonary venous connection	Diagnosis	ICD-10-CM
Q26.4	Anomalous pulmonary venous connection, unspecified	Diagnosis	ICD-10-CM
	Cardiac Malformation, Other Cardiac		
746.89	Other specified congenital anomaly of heart	Diagnosis	ICD-9-CM
745.7	Cor biloculare	Diagnosis	ICD-9-CM
746.86	Congenital heart block	Diagnosis	ICD-9-CM
746.85	Congenital coronary artery anomaly	Diagnosis	ICD-9-CM
746.8	Other specified congenital anomaly of heart	Diagnosis	ICD-9-CM
745.8	Other bulbus cordis anomalies and anomalies of cardiac septal closure	Diagnosis	ICD-9-CM
746.84	Congenital obstructive anomalies of heart, not elsewhere classified	Diagnosis	ICD-9-CM
746.87	Congenital malposition of heart and cardiac apex	Diagnosis	ICD-9-CM
Q20.6	Isomerism of atrial appendages	Diagnosis	ICD-10-CM
Q21.4	Aortopulmonary septal defect	Diagnosis	ICD-10-CM
Q21.8	Other congenital malformations of cardiac septa	Diagnosis	ICD-10-CM
Q24.0	Dextrocardia	Diagnosis	ICD-10-CM
Q24.1	Levocardia	Diagnosis	ICD-10-CM
Q24.5	Malformation of coronary vessels	Diagnosis	ICD-10-CM
Q24.6	Congenital heart block	Diagnosis	ICD-10-CM
Q24.8	Other specified congenital malformations of heart	Diagnosis	ICD-10-CM
Q25.8	Other congenital malformations of other great arteries	Diagnosis	ICD-10-CM
	Cardiac Malformation, Cardiac NOS		
745	Bulbus cordis anomalies and anomalies of cardiac septal closure	Diagnosis	ICD-9-CM
747	Other congenital anomalies of circulatory system	Diagnosis	ICD-9-CM
745.9	Unspecified congenital defect of septal closure	Diagnosis	ICD-9-CM
746.9	Unspecified congenital anomaly of heart	Diagnosis	ICD-9-CM
746	Other congenital anomalies of heart	Diagnosis	ICD-9-CM
Q20	Congenital malformations of cardiac chambers and connections	Diagnosis	ICD-10-CM
Q20.9	Congenital malformation of cardiac chambers and connections, unspecified	Diagnosis	ICD-10-CM
Q21	Congenital malformations of cardiac septa	Diagnosis	ICD-10-CM
Q21.9	Congenital malformation of cardiac septum, unspecified	Diagnosis	ICD-10-CM
Q24	Other congenital malformations of heart	Diagnosis	ICD-10-CM
Q24.9	Congenital malformation of heart, unspecified	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
Q25	Congenital malformations of great arteries	Diagnosis	ICD-10-CM
Q25.9	Congenital malformation of great arteries, unspecified	Diagnosis	ICD-10-CM

Code List 2. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes, Current Procedural Terminology, Fourth Revision (CPT-4) Procedure Codes, and Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Oral Clefts in this Request

Code	Description	Code Category	Code Type
	Cardiac Malformation Procedures		
3595	REVISION CORRECTIVE PROCEDURE HEART	Procedure	ICD-9-PCS
3598	OTHER OPERATIONS ON SEPTA OF HEART	Procedure	ICD-9-PCS
3599	OTHER OPERATIONS ON VALVES OF HEART	Procedure	ICD-9-PCS
3601	PTCA/COR ATH-LVSL NO LYS	Procedure	ICD-9-PCS
3699	OTHER OPERATIONS VESSELS OF HEART	Procedure	ICD-9-PCS
3751	HEART TRANSPLANTATION	Procedure	ICD-9-PCS
3961	XTRACORP CIRC DURING OPN HEART SURG	Procedure	ICD-9-PCS
390	SYSTEMIC TO PULMONARY ARTERY SHUNT	Procedure	ICD-9-PCS
3501	CLOSED HEART VALVOTOMY AORTIC VALVE	Procedure	ICD-9-PCS
3503	CLOS HEART VALVOTOMY PULM VALVE	Procedure	ICD-9-PCS
3511	OPN HEART VALVULOPLASTY-AORTIC VALV	Procedure	ICD-9-PCS
3512	OPN HEART VALVULOPLASTY-MITRAL VALV	Procedure	ICD-9-PCS
3513	OPN HEART VALVULOPLASTY-PULM VALV	Procedure	ICD-9-PCS
3514	OPN HEART VALVULOPLASTY-TRICUSPID	Procedure	ICD-9-PCS
3521	REPLCMT AORTIC VALVE W/TISSUE GRAFT	Procedure	ICD-9-PCS
3524	OTHER REPLACEMENT OF MITRAL VALVE	Procedure	ICD-9-PCS
3525	REPLCMT PULM VALVE W/TISSUE GRAFT	Procedure	ICD-9-PCS
3534	INFUNDIBULECTOMY	Procedure	ICD-9-PCS
3591	INTERATRIAL TRANSPSTN VENOUS RETURN	Procedure	ICD-9-PCS
3592	CREATE CONDUIT RT VENT-PULM ART	Procedure	ICD-9-PCS
3596	PERCUTANEOUS BALLOON VALVULOPLASTY	Procedure	ICD-9-PCS
7536	CORRECTION OF FETAL DEFECT	Procedure	ICD-9-PCS
354	PRODUCTION OF SEPTAL DEFECT IN HEART	Procedure	ICD-9-PCS
355	REPAIR OF ATRIAL AND VENTRICULAR SEPTA WITH PROSTHESIS	Procedure	ICD-9-PCS
356	REPAIR OF ATRIAL AND VENTRICULAR SEPTA WITH TISSUE GRAFT	Procedure	ICD-9-PCS
357	OTHER AND UNSPECIFIED REPAIR OF ATRIAL AND VENTRICULAR SEPTA	Procedure	ICD-9-PCS
358	TOTAL REPAIR OF CERTAIN CONGENITAL CARDIAC ANOMALIES	Procedure	ICD-9-PCS
359	OTHER OPERATIONS ON VALVES AND SEPTA OF HEART	Procedure	ICD-9-PCS
3541	ENLARGEMENT OF EXISTING ATRIAL SEPTAL DEFECT	Procedure	ICD-9-PCS
3542	CREATION OF SEPTAL DEFECT IN HEART	Procedure	ICD-9-PCS
3550	REPAIR OF UNSPECIFIED SEPTAL DEFECT OF HEART WITH PROSTHESIS	Procedure	ICD-9-PCS
3551	REPAIR OF ATRIAL SEPTAL DEFECT WITH PROSTHESIS, OPEN TECHNIQUE	Procedure	ICD-9-PCS
3552	REPAIR OF ATRIAL SEPTAL DEFECT WITH PROSTHESIS, CLOSED TECHNIQUE	Procedure	ICD-9-PCS
3553	REPAIR OF VENTRICULAR SEPTAL DEFECT WITH PROSTHESIS	Procedure	ICD-9-PCS
3554	REPAIR OF ENDOCARDIAL CUSHION DEFECT WITH PROSTHESIS	Procedure	ICD-9-PCS
3555	REPAIR OF VENTRICULAR SEPTAL DEFECT WITH PROSTHESIS, CLOSED TECHNIQUE	Procedure	ICD-9-PCS
3560	REPAIR OF UNSPECIFIED SEPTAL DEFECT OF HEART WITH TISSUE GRAFT	Procedure	ICD-9-PCS
3561	REPAIR OF ATRIAL SEPTAL DEFECT WITH TISSUE GRAFT	Procedure	ICD-9-PCS

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Code	Description	Code Category	Code Type
3562	REPAIR OF VENTRICULAR SEPTAL DEFECT WITH TISSUE GRAFT	Procedure	ICD-9-PCS
3563	REPAIR OF ENDOCARDIAL CUSHION DEFECT WITH TISSUE GRAFT	Procedure	ICD-9-PCS
3570	OTHER AND UNSPECIFIED REPAIR OF UNSPECIFIED SEPTAL DEFECT OF HEART	Procedure	ICD-9-PCS
3571	OTHER AND UNSPECIFIED REPAIR OF ATRIAL SEPTAL DEFECT	Procedure	ICD-9-PCS
3572	OTHER AND UNSPECIFIED REPAIR OF VENTRICULAR SEPTAL DEFECT	Procedure	ICD-9-PCS
3573	OTHER AND UNSPECIFIED REPAIR OF ENDOCARDIAL CUSHION DEFECT	Procedure	ICD-9-PCS
3581	TOTAL REPAIR OF TETRALOGY OF FALLOT	Procedure	ICD-9-PCS
3582	TOTAL REPAIR OF TOTAL ANOMALOUS PULMONARY VENOUS CONNECTION	Procedure	ICD-9-PCS
3583	TOTAL REPAIR OF TRUNCUS ARTERIOSUS	Procedure	ICD-9-PCS
3584	TOTAL CORRECTION OF TRANSPOSITION OF GREAT VESSELS, NOT ELSEWHERE CLASSIFIED	Procedure	ICD-9-PCS
02RF	Replacement of Aortic Valve	Procedure	ICD-10-PCS
02RFG	Replacement of Mitral Valve	Procedure	ICD-10-PCS
02RH	Replacement ofPulmonary Valve	Procedure	ICD-10-PCS
02RJ	Replacement of Tricuspid Valve	Procedure	ICD-10-PCS
021	Bypass	Procedure	ICD-10-PCS
33778	REPAIR GREAT VESSELS DEFECT	Procedure	CPT-4
33820	Repair of patent ductus arteriosus	Procedure	CPT-4
33822	Repair of patent ductus arteriosus	Procedure	CPT-4
33840	REMOVE AORTA CONSTRICTION	Procedure	CPT-4
33853	Repair of hypoplastic or interrupted aortic arch using autogenous or prosthetic material	Procedure	CPT-4
92990	Percutaneous balloon valvuloplasty; pulmonary valve	Procedure	CPT-4
35182	REPAIR, CONGENITAL ARTERIOVENOUS FISTULA; THORAX AND ABDOMEN	Procedure	CPT-4
37204	TRANSCATHETER OCCLUSION OR EMBOLIZATION (EG, FOR TUMOR DESTRUCTION, TO	Procedure	CPT-4
34900	ARTERIOVENOUS MALFORMATION, TRAUMA) USING ILIO-ILIAC TUBE	Procedure	CPT-4
61624	TRANSCATHETER PERMANENT OCCLUSION OR EMBOLIZATION (EG, FOR TUMOR	Procedure	CPT-4
0254T	Endovascular repair of iliac artery bifurcation (eg, aneurysm,	Procedure	CPT-3
0255T	Endovascular repair of iliac artery bifurcation (eg, aneurysm,	Procedure	CPT-3
33468	TRICUSPID VALVE REPOSITIONING AND PLICATION FOR EBSTEIN ANOMALY	Procedure	CPT-4
33502	REPAIR OF ANOMALOUS CORONARY ARTERY FROM PULMONARY ARTERY ORIGIN; BY	Procedure	CPT-4
33503	REPAIR OF ANOMALOUS CORONARY ARTERY FROM PULMONARY ARTERY ORIGIN; BY	Procedure	CPT-4
33504	REPAIR OF ANOMALOUS CORONARY ARTERY FROM PULMONARY ARTERY ORIGIN; BY	Procedure	CPT-4
33505	REPAIR OF ANOMALOUS CORONARY ARTERY FROM PULMONARY ARTERY ORIGIN; WITH	Procedure	CPT-4
33506	REPAIR OF ANOMALOUS CORONARY ARTERY FROM PULMONARY ARTERY ORIGIN; BY	Procedure	CPT-4

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Code	Description	Code Category	Code Type
33507	REPAIR OF ANOMALOUS (EG, INTRAMURAL) AORTIC ORIGIN OF CORONARY ARTERY BY	Procedure	CPT-4
33608	REPAIR OF COMPLEX CARDIAC ANOMALY OTHER THAN PULMONARY ATRESIA WITH	Procedure	CPT-4
33610	REPAIR OF COMPLEX CARDIAC ANOMALIES (EG, SINGLE VENTRICLE WITH SUBAORTIC	Procedure	CPT-4
33611	REPAIR OF DOUBLE OUTLET RIGHT VENTRICLE WITH INTRAVENTRICULAR TUNNEL	Procedure	CPT-4
33612	REPAIR OF DOUBLE OUTLET RIGHT VENTRICLE WITH INTRAVENTRICULAR TUNNEL	Procedure	CPT-4
33615	REPAIR OF COMPLEX CARDIAC ANOMALIES (EG, TRICUSPID ATRESIA) BY CLOSURE	Procedure	CPT-4
33617	REPAIR OF COMPLEX CARDIAC ANOMALIES (EG, SINGLE VENTRICLE) BY MODIFIED	Procedure	CPT-4
33619	REPAIR OF SINGLE VENTRICLE WITH AORTIC OUTFLOW OBSTRUCTION AND AORTIC	Procedure	CPT-4
33622	RECONSTRUCTION OF COMPLEX CARDIAC ANOMALY (EG, SINGLE VENTRICLE OR	Procedure	CPT-4
33641	REPAIR ATRIAL SEPTAL DEFECT, SECUNDUM, WITH CARDIOPULMONARY BYPASS, WITH	Procedure	CPT-4
33645	DIRECT OR PATCH CLOSURE, SINUS VENOSUS, WITH OR WITHOUT ANOMALOUS	Procedure	CPT-4
33647	REPAIR OF ATRIAL SEPTAL DEFECT AND VENTRICULAR SEPTAL DEFECT, WITH	Procedure	CPT-4
33660	REPAIR OF INCOMPLETE OR PARTIAL ATRIOVENTRICULAR CANAL (OSTIUM PRIMUM	Procedure	CPT-4
33665	REPAIR OF INTERMEDIATE OR TRANSITIONAL ATRIOVENTRICULAR CANAL, WITH OR	Procedure	CPT-4
33670	REPAIR OF COMPLETE ATRIOVENTRICULAR CANAL, WITH OR WITHOUT PROSTHETIC	Procedure	CPT-4
33675	CLOSURE OF MULTIPLE VENTRICULAR SEPTAL DEFECTS;	Procedure	CPT-4
33676	CLOSURE OF MULTIPLE VENTRICULAR SEPTAL DEFECTS; WITH PULMONARY VALVOTOMY	Procedure	CPT-4
33677	CLOSURE OF MULTIPLE VENTRICULAR SEPTAL DEFECTS; WITH REMOVAL OF	Procedure	CPT-4
33681	CLOSURE OF SINGLE VENTRICULAR SEPTAL DEFECT, WITH OR WITHOUT PATCH;	Procedure	CPT-4
33684	CLOSURE OF SINGLE VENTRICULAR SEPTAL DEFECT, WITH OR WITHOUT PATCH; WITH	Procedure	CPT-4
33688	CLOSURE OF SINGLE VENTRICULAR SEPTAL DEFECT, WITH OR WITHOUT PATCH; WITH	Procedure	CPT-4
33690	BANDING OF PULMONARY ARTERY	Procedure	CPT-4
33692	COMPLETE REPAIR TETRALOGY OF FALLOT WITHOUT PULMONARY ATRESIA;	Procedure	CPT-4
33694	COMPLETE REPAIR TETRALOGY OF FALLOT WITHOUT PULMONARY ATRESIA; WITH	Procedure	CPT-4
33697	COMPLETE REPAIR TETRALOGY OF FALLOT WITH PULMONARY ATRESIA INCLUDING	Procedure	CPT-4
33702	REPAIR SINUS OF VALSALVA FISTULA, WITH CARDIOPULMONARY BYPASS;	Procedure	CPT-4
33710	REPAIR SINUS OF VALSALVA FISTULA, WITH CARDIOPULMONARY BYPASS; WITH	Procedure	CPT-4
33720	REPAIR SINUS OF VALSALVA ANEURYSM, WITH CARDIOPULMONARY BYPASS	Procedure	CPT-4
33722	CLOSURE OF AORTICO-LEFT VENTRICULAR TUNNEL	Procedure	CPT-4
33724	REPAIR OF ISOLATED PARTIAL ANOMALOUS PULMONARY VENOUS RETURN (EG,	Procedure	CPT-4
33726	REPAIR OF PULMONARY VENOUS STENOSIS	Procedure	CPT-4

Code List 2. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes, Current Procedural Terminology, Fourth Revision (CPT-4) Procedure Codes, and Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Oral Clefts in this Request

Code	Description	Code Category	Code Type
33730	COMPLETE REPAIR OF ANOMALOUS PULMONARY VENOUS RETURN (SUPRACARDIAC,	Procedure	CPT-4
33788	REIMPLANTATION OF AN ANOMALOUS PULMONARY ARTERY	Procedure	CPT-4
33924	LIGATION AND TAKEDOWN OF A SYSTEMIC-TO-PULMONARY ARTERY SHUNT, PERFORMED	Procedure	CPT-4
33925	REPAIR OF PULMONARY ARTERY ARBORIZATION ANOMALIES BY UNIFOCALIZATION;	Procedure	CPT-4
33926	REPAIR OF PULMONARY ARTERY ARBORIZATION ANOMALIES BY UNIFOCALIZATION;	Procedure	CPT-4
35180	REPAIR, CONGENITAL ARTERIOVENOUS FISTULA; HEAD AND NECK	Procedure	CPT-4
93530	RIGHT HEART CATHETERIZATION, FOR CONGENITAL CARDIAC ANOMALIES	Procedure	CPT-4
93531	COMBINED RIGHT HEART CATHETERIZATION AND RETROGRADE LEFT HEART	Procedure	CPT-4
93532	COMBINED RIGHT HEART CATHETERIZATION AND TRANSSEPTAL LEFT HEART	Procedure	CPT-4
93533	COMBINED RIGHT HEART CATHETERIZATION AND TRANSSEPTAL LEFT HEART	Procedure	CPT-4
93563	INJECTION PROCEDURE DURING CARDIAC CATHETERIZATION INCLUDING IMAGING	Procedure	CPT-4
93564	INJECTION PROCEDURE DURING CARDIAC CATHETERIZATION INCLUDING IMAGING	Procedure	CPT-4
93580	PERCUTANEOUS TRANSCATHETER CLOSURE OF CONGENITAL INTERATRIAL	Procedure	CPT-4
93581	PERCUTANEOUS TRANSCATHETER CLOSURE OF A CONGENITAL VENTRICULAR SEPTAL	Procedure	CPT-4
	Oral Clefts		
749.0	Cleft palate	Diagnosis	ICD-9-CM
749.00	Unspecified cleft palate	Diagnosis	ICD-9-CM
749.01	Unilateral cleft palate, complete	Diagnosis	ICD-9-CM
749.02	Unilateral cleft palate, incomplete	Diagnosis	ICD-9-CM
749.03	Bilateral cleft palate, complete	Diagnosis	ICD-9-CM
749.04	Bilateral cleft palate, incomplete	Diagnosis	ICD-9-CM
749.1	Cleft lip	Diagnosis	ICD-9-CM
749.10	Unspecified cleft lip	Diagnosis	ICD-9-CM
749.11	Unilateral cleft lip, complete	Diagnosis	ICD-9-CM
749.12	Unilateral cleft lip, incomplete	Diagnosis	ICD-9-CM
749.13	Bilateral cleft lip, complete	Diagnosis	ICD-9-CM
749.14	Bilateral cleft lip, incomplete	Diagnosis	ICD-9-CM
749.2	Cleft palate with cleft lip	Diagnosis	ICD-9-CM
749.20	Unspecified cleft palate with cleft lip	Diagnosis	ICD-9-CM
749.21	Unilateral cleft palate with cleft lip, complete	Diagnosis	ICD-9-CM
749.22	Unilateral cleft palate with cleft lip, incomplete	Diagnosis	ICD-9-CM
749.23	Bilateral cleft palate with cleft lip, complete	Diagnosis	ICD-9-CM
749.24	Bilateral cleft palate with cleft lip, incomplete	Diagnosis	ICD-9-CM
749.25	Other combinations of cleft palate with cleft lip	Diagnosis	ICD-9-CM
Q35.9	Cleft palate, unspecified	Diagnosis	ICD-10-CM

Code List 2. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes, Current Procedural Terminology, Fourth Revision (CPT-4) Procedure Codes, and Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Oral Clefts in this Request

Code	Description	Code Category	Code Type
Q35.7	Cleft uvula	Diagnosis	ICD-10-CM
Q36.9	Cleft lip, unilateral	Diagnosis	ICD-10-CM
Q36.0	Cleft lip, bilateral	Diagnosis	ICD-10-CM
Q37.9	Unspecified cleft palate with unilateral cleft lip	Diagnosis	ICD-10-CM
Q37.8	Unspecified cleft palate with bilateral cleft lip	Diagnosis	ICD-10-CM
Q35.1	Cleft hard palate	Diagnosis	ICD-10-CM
Q35.3	Cleft soft palate	Diagnosis	ICD-10-CM
Q35.5	Cleft hard palate with cleft soft palate	Diagnosis	ICD-10-CM
Q36.1	Cleft lip, median	Diagnosis	ICD-10-CM
Q37.3	Cleft soft palate with unilateral cleft lip	Diagnosis	ICD-10-CM
Q37.5	Cleft hard and soft palate with unilateral cleft lip	Diagnosis	ICD-10-CM
Q37.1	Cleft hard palate with unilateral cleft lip	Diagnosis	ICD-10-CM
Q37.0	Cleft hard palate with bilateral cleft lip	Diagnosis	ICD-10-CM
Q37.4	Cleft hard and soft palate with bilateral cleft lip	Diagnosis	ICD-10-CM
Q37.2	Cleft soft palate with bilateral cleft lip	Diagnosis	ICD-10-CM
27.62	Correction of cleft palate	Procedure	ICD-9-PCS
75.36	Correction of fetal defect	Procedure	ICD-9-PCS
27.69	Other plastic repair of palate	Procedure	ICD-9-PCS
27.54	Repair of cleft lip	Procedure	ICD-9-PCS
27.63	Revision of cleft palate repair	Procedure	ICD-9-PCS
27.61	Suture of laceration of palate	Procedure	ICD-9-PCS
00172	Anesthesia for intraoral procedures, including biopsy; repair of cleft palate	Procedure	CPT-4
00102	Anesthesia for procedures involving plastic repair of cleft lip	Procedure	CPT-4
42226	Lengthening of palate, and pharyngeal flap	Procedure	CPT-4
42227	Lengthening of palate, with island flap	Procedure	CPT-4
42225	Palatoplasty for cleft palate; attachment pharyngeal flap	Procedure	CPT-4
42215	Palatoplasty for cleft palate; major revision	Procedure	CPT-4
42220	Palatoplasty for cleft palate; secondary lengthening procedure	Procedure	CPT-4
40702	Plastic repair of cleft lip/nasal deformity; primary bilateral, 1 of 2 stages	Procedure	CPT-4
40701	Plastic repair of cleft lip/nasal deformity; primary bilateral, 1-stage procedure	Procedure	CPT-4
40700	Plastic repair of cleft lip/nasal deformity; primary, partial or complete, unilateral	Procedure	CPT-4
42235	Repair of anterior palate, including vomer flap	Procedure	CPT-4
30580	Repair fistula; oromaxillary (combine with 31030 if antrotomy is included)	Procedure	CPT-4
30600	Repair fistula; oronasal	Procedure	CPT-4
42260	Repair of nasolabial fistula	Procedure	CPT-4
30462	Rhinoplasty for nasal deformity secondary to congenital cleft lip and/or palate, including columellar lengthening; tip, septum, osteotomies	Procedure	CPT-4
30460	Rhinoplasty for nasal deformity secondary to congenital cleft lip and/or palate, including columellar lengthening; tip only	Procedure	CPT-4

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Code	Description	Code Category	Code Type
0CQ00ZZ	Repair Upper Lip, Open Approach	Procedure	ICD-10-PCS
0CQ03ZZ	Repair Upper Lip, Percutaneous Approach	Procedure	ICD-10-PCS
0CQ0XZZ	Repair Upper Lip, External Approach	Procedure	ICD-10-PCS
0CQ10ZZ	Repair Lower Lip, Open Approach	Procedure	ICD-10-PCS
0CQ13ZZ	Repair Lower Lip, Percutaneous Approach	Procedure	ICD-10-PCS
0CQ1XZZ	Repair Lower Lip, External Approach	Procedure	ICD-10-PCS
0CQ20ZZ	Repair Hard Palate, Open Approach	Procedure	ICD-10-PCS
0CQ23ZZ	Repair Hard Palate, Percutaneous Approach	Procedure	ICD-10-PCS
0CQ2XZZ	Repair Hard Palate, External Approach	Procedure	ICD-10-PCS
0CQ30ZZ	Repair Soft Palate, Open Approach	Procedure	ICD-10-PCS
0CQ33ZZ	Repair Soft Palate, Percutaneous Approach	Procedure	ICD-10-PCS
0CQ3XZZ	Repair Soft Palate, External Approach	Procedure	ICD-10-PCS
0CR207Z	Replacement of Hard Palate with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0CR20JZ	Replacement of Hard Palate with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0CR20KZ	Replacement of Hard Palate with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0CR237Z	Replacement of Hard Palate with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0CR23JZ	Replacement of Hard Palate with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0CR23KZ	Replacement of Hard Palate with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0CR2X7Z	Replacement of Hard Palate with Autologous Tissue Substitute, External Approach	Procedure	ICD-10-PCS
0CR2XJZ	Replacement of Hard Palate with Synthetic Substitute, External Approach	Procedure	ICD-10-PCS
0CR2XKZ	Replacement of Hard Palate with Nonautologous Tissue Substitute, External Approach	Procedure	ICD-10-PCS
0CR307Z	Replacement of Soft Palate with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0CR30JZ	Replacement of Soft Palate with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0CR30KZ	Replacement of Soft Palate with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0CR337Z	Replacement of Soft Palate with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0CR33JZ	Replacement of Soft Palate with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0CR33KZ	Replacement of Soft Palate with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0CR3X7Z	Replacement of Soft Palate with Autologous Tissue Substitute, External Approach	Procedure	ICD-10-PCS
0CR3XJZ	Replacement of Soft Palate with Synthetic Substitute, External Approach	Procedure	ICD-10-PCS
0CR3XKZ	Replacement of Soft Palate with Nonautologous Tissue Substitute, External Approach	Procedure	ICD-10-PCS
0CS20ZZ	Reposition Hard Palate, Open Approach	Procedure	ICD-10-PCS
0CS2XZZ	Reposition Hard Palate, External Approach	Procedure	ICD-10-PCS

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Code	Description	Code Category	Code Type
0CS30ZZ	Reposition Soft Palate, Open Approach	Procedure	ICD-10-PCS
0CS3XZZ	Reposition Soft Palate, External Approach	Procedure	ICD-10-PCS
0CU207Z	Supplement Hard Palate with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0CU20JZ	Supplement Hard Palate with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0CU20KZ	Supplement Hard Palate with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0CU237Z	Supplement Hard Palate with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0CU23JZ	Supplement Hard Palate with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0CU23KZ	Supplement Hard Palate with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0CU2X7Z	Supplement Hard Palate with Autologous Tissue Substitute, External Approach	Procedure	ICD-10-PCS
0CU2XJZ	Supplement Hard Palate with Synthetic Substitute, External Approach	Procedure	ICD-10-PCS
0CU2XKZ	Supplement Hard Palate with Nonautologous Tissue Substitute, External Approach	Procedure	ICD-10-PCS
0CU307Z	Supplement Soft Palate with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0CU30JZ	Supplement Soft Palate with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0CU30KZ	Supplement Soft Palate with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0CU337Z	Supplement Soft Palate with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0CU33JZ	Supplement Soft Palate with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0CU33KZ	Supplement Soft Palate with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0CU3X7Z	Supplement Soft Palate with Autologous Tissue Substitute, External Approach	Procedure	ICD-10-PCS
0CU3XJZ	Supplement Soft Palate with Synthetic Substitute, External Approach	Procedure	ICD-10-PCS
0CU3XKZ	Supplement Soft Palate with Nonautologous Tissue Substitute, External Approach	Procedure	ICD-10-PCS
2769	OTHER PLASTIC REPAIR OF PALATE	Procedure	ICD-9-PCS
2754	Repair of cleft lip	Procedure	ICD-9-PCS
2761	Suture of laceration of palate	Procedure	ICD-9-PCS
2762	Correction of cleft palate	Procedure	ICD-9-PCS
2763	Revision of cleft palate repair	Procedure	ICD-9-PCS
7536	CORRECTION OF FETAL DEFECT	Procedure	ICD-9-PCS