

**\* Please note: Single ventricle should be interpreted as including other congenital defects – e.g., hypoplastic left heart syndrome – that may result in patients undergoing palliation with the Fontan procedure.**

Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	
<b>B1</b>						Single Ventricle* Surgical Interventions
						<b>Single ventricle palliation</b>
	01					Shunt-systemic-to-pulmonary
		01				Modified Blalock-Taussig Shunt (MBTS)
			11			Left (MBTSL) placement
			12			Left (MBTSL) revision
			13			Left (MBTSL) thrombectomy
			21			Right (MBTSR) placement
			22			Right (MBTSR) revision
			23			Right (MBTSR) thrombectomy
		02				Blalock-Taussig Shunt (BTS) (Classic BTS)
			11			Left (BTS) placement
			12			Left (BTS) revision
			13			Left (BTS) thrombectomy
			21			Right (BTS) placement
			22			Right (BTS) revision
			23			Right (BTS) thrombectomy
		03				Central with tube graft (aorta to main or branch pulmonary artery)
			11			Left placement
			12			Left revision
			13			Left thrombectomy
			21			Right placement
			22			Right revision
			23			Right thrombectomy
		04				Potts-Smith type (direct descending aorta to pulmonary artery)
		05				Waterston type (direct ascending aorta to pulmonary artery)
		06				Shunt ligation and takedown
		07				Other
	02					Pulmonary artery (PA) band
		01				Band placement
		02				Band revision
	03					PA debanding
	04					Damus-Kaye-Stansel (DKS) procedure
	05					Norwood procedure
		01				Aortopulmonary shunt (modified BTS)
		02				Right ventricle to PA conduit (Sano operation)
	06					Unidirectional Glenn anastomosis
		01				Left
		02				Right
	07					Bidirectional cavopulmonary anastomosis (BDCPA)
		01				Left
		02				Right
	08					Bilateral bidirectional cavopulmonary anastomoses (BBDCPA)

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						Single Ventricle* Surgical Interventions
<b>B1</b>						<b>Single ventricle palliation (continued)</b>
	09					Hemi-Fontan
		01				With bilateral cavopulmonary anastomoses
		02				With cavopulmonary anastomosis
			01			Left
			02			Right
		03				With atriopulmonary anastomosis
			01			Left
			02			Right
	10					Kawashima operation (superior cavopulmonary anastomosis in setting of interrupted IVC with azygous continuation)
	11					Atrial septectomy
	12					Repair or revision of totally anomalous pulmonary venous connection
	13					Bilateral pulmonary artery (PA) bands
		01				Band placement
		02				Band revision
<b>B2</b>						<b>Single ventricle physiologic repair</b>
	01					Single Ventricular septation
		01				Completion of ventricular septation
			01			As primary septation procedure (not status post prior partial septation procedure)
			02			Status post prior partial septation procedure
	02					Partial ventricular septation (Ebert)
	02					Fontan
		01				Direct atriopulmonary connection
			01			With ASD closure
				01		Fenestrated
				02		Nonfenestrated
			02			With lateral tunnel
				01		Fenestrated
				02		Nonfenestrated
			03			With atrial appendage to pulmonary trunk anastomosis
				01		Fenestrated
				02		Nonfenestrated
			04			With atriopulmonary conduit
				01		Nonvalved conduit
					01	Fenestrated
					02	Nonfenestrated
				02		Valved conduit
					01	Fenestrated
					02	Nonfenestrated
			05			With direct atriopulmonary anastomosis
				01		Fenestrated
				02		Nonfenestrated

## Code List B: Single Ventricle Surgical Interventions and Procedures

Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	
<b>B2</b>						Single Ventricle* Surgical Interventions (continued)
						<b>Single ventricle physiologic repair (continued)</b>
			06			With direct atriopulmonary anastomosis and patch enlargement
				01		Fenestrated
				02		Nonfenestrated
		02				Atrioventricular connection
			01			Atrioventricular connection with atrial flap and patch (Bjork)
				01		Fenestrated
				02		Nonfenestrated
			02			Atrioventricular connection with conduit
				01		Malm
					01	Fenestrated
					02	Nonfenestrated
				02		Nonvalved conduit
					01	Fenestrated
					02	Nonfenestrated
				03		Valved conduit
					01	Fenestrated
					02	Nonfenestrated
		03				Total Cavopulmonary Connection ( <b>TCPC</b> ) with intra-atrial lateral tunnel
			01			Fenestrated
			02			Nonfenestrated
		04				TCPC extracardiac lateral tunnel
			01			Fenestrated
			02			Nonfenestrated
		05				TCPC extracardiac conduit (IVC to PA conduit)
			01			Fenestrated
				01		With pedicled pericardial roll
				02		With polytetrafluoroethylene tube
				03		With allograft
				04		With Y-graft
			02			Nonfenestrated
				01		With pedicled pericardial roll
				02		With polytetrafluoroethylene tube
				03		With allograft
				04		With Y-graft
		06				Intraatrial conduit ( using transatrial tube)
			01			Fenestrated
			02			Nonfenestrated
		07				Other
			01			Fontan takedown (Takedown of prior Fontan type procedure)
				01		Conversion to superior cavopulmonary connection
				02		Reconversion to superior cavopulmonary connection
				03		Takedown of prior total cavopulmonary connection

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<b>B2</b>						Single Ventricle* Surgical Interventions (continued)
						<b>Single ventricle physiologic repair (continued)</b>
				01		Conversion to superior cavopulmonary connection
				02		Reconversion to superior cavopulmonary connection
			02			Fontan fenestration closure
				01		Surgical
				02		Transcatheter
				01		With coil
				02		With device
			03			Fontan fenestration creation
				01		Surgical
				01		Construction of adjustable interatrial communication
				02		Transcatheter
				02		With stent
			04			Fontan fenestration enlargement
				01		Surgical
				02		Transcatheter
				01		With stent
			05			Fontan fenestration reduction
				01		Surgical
				02		Transcatheter
				03		With device
				01		With stent
			06			ASD creation, unroofing of coronary sinus, as a component of an extracardiac Fontan
			07			ASD enlargement, unroofing of coronary sinus, as a component of an extracardiac Fontan
			08			Fontan revision or conversion (Re-do Fontan)
				01		Conversion of prior Fontan to total cavopulmonary connection (TCPC)
				02		Insertion of valve in IVC
				03		Insertion of valve in SVC
			09			Extracardiac direct IVC to PA connection
				01		Fenestrated
				02		Nonfenestrated
			10			Transcatheter Fontan Completion (TCFC)
						Total Cavopulmonary Connection (TCPC) using transcatheter covered stent, intracardiac lateral tunnel
				01		Fenestrated
				02		Nonfenestrated
		<b>11</b>				Prior atriopulmonary hemi-Fontan
			<b>01</b>			With lateral tunnel
				<b>01</b>		Fenestrated
				<b>02</b>		Nonfenestrated
			<b>02</b>			With extracardiac conduit

Pediatric Heart Network

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						Single Ventricle* Surgical Interventions (continued)
<b>B2</b>						<b>Single ventricle physiologic repair (continued)</b>
				01		Fenestrated
				02		Nonfenestrated
		12				Total Cavopulmonary Connection (TCPC) with intracardiac/extracardiac conduit
			01			Fenestrated
			02			Nonfenestrated
	03					Heart transplant
<b>B3</b>						<b>Other cardiac surgical procedure</b>