**Supplementary Table S2: Risk categories used at the Unit of Pediatric Cardiology, Oslo University Hospital**

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| --- | --- | --- | --- | --- | --- |
|  | **Risk category 1** | **Risk category 2** | **Risk category 3** | **Risk category 4** | **Risk category 5** |
| **Diagnostic catheterization** | Hemodynamic study with or without NO and inotropy | Age > 1 month, poor ventricular function | Age < 1 month, poor ventricular function | Any diagnostic catheterization within 72 hours after surgery | - |
| Any catheterization in children with critical PHT |
|  |  |  |  |  |  |
| **Valvuloplasty** | - | Pulmonary valve, age > 1 month | Aortic valve, age > 1 month | Pulmonary valve, age < 1 month | Mitral valve, age < 1 year |
|
|  |  | Tricuspid valve | Aortic valve, age < 1 month or poor ventricular function |
|
| Mitral valve, age > 1 year |  |
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|  |  |  |  |  |  |
| **Balloon angioplasty** | - | Aorta < 8 atm | Systemic artery (not aorta) < 8 atm | Systemic artery (not aorta) > 8 atm or cutting balloon | Lobar segment of pulmonal artery > 4 vessels |
|
| Proximal PA < 8 atm | Systemic vein > 8 atm or cutting balloon | Lobar segment of pulmonal artery > 8 atm or cutting balloon < 4  vessels | Pulmonary vein, > 3 vessels |
|
| RV to PA conduit or native RVOT | Atrial septostomy, static | Pulmonary vein < 3 vessels |  |
|
| Systemic veins < 8 atm | Aorta > 8 atm or cutting balloon | Systemic shunt > 8 atm or cutting balloon |
|
|  | Proximal pulmonary arteries > 8 atm or cutting balloon |  |
|
| Lobar segment of pulmonary arteries < 8 atm < 4 vessels |
|
| Systemic shunt < 8 atm |
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|  |  |  |  |  |  |
| **Coil or device closure** | PDA | Systemic arterial collaterals | Systemic shunt | VSD, 1 device or age > 1 year | VSD, > 1 device or age < 1 year |
|
| Venovenous collaterals | ASD or PFO | Baffle leak |  | Perivalvar leak |
|
|  | Fontan fenestration |  |  |
|
|  |  |  |  |  |  |
| **Stent placement** | - | Pulmonary artery, left or right main branches | Native RVOT | Pulmonary vein, < 3 vessels | Intracardial / ventricular |
|
| Systemic vein | Lobar segment of pulmonal arteries | Systemic shunt | Pulmonary vein, > 3 vessels |
|
| RV to PA conduit | Aorta |  | Percutaneous valves |
|  |
|  | Systemic artery (not aorta) |  |
|
|  |  |  |  |  |  |
| **Stent redilation** | Pulmonary artery/ RV-PA conduit/ systemic veins | Aorta or other systemic arteries | Lobar segment of pulmonary artery | Intracardial / ventricular | - |
|
|  |  | Pulmonary vein |  |
|
|  |  |  |  |  |  |
| **Other** | Snare foreign body | Rashkind atrial septostomy | - |  | Intervention for atretic valve |
|
| Right ventricular biopsy, > 10 kg | Right ventricular biopsy, < 10 kg | Any use of atherectomy catheter | Any interventional catheterization < 72 hours after surgery |
|
|  | Recanalization of occluded vessel |  | Atrial septum dilation and stent in univentricular hearts |
|
| Transseptal puncture |  |
|
| Recanalization of stent in periphere vessel |
|

*NO = Nitric oxide, RV = Right ventricle, RVOT = Right ventricular outlet tract, PA = Pulmonary artery, ASD = Atrial septal defect, VSD = Ventricular septal defect, PDA = Patent ductus arteriosus*