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| Supplementary Table 1 : Characteristics of patient subgroups with different lesions |
| ASD (n=124) |
| Age in years (Median, IQR) | 32.5  | 21.00,42.25 |
| Age < 18 years (n,%) | 25 | 20.1 |
| M:F | 58:66 | 0.88:1 |
| Body weight (Mean, SD) | 51.44 | ±18.14 |
| PA Mean (Mean, SD) | 30.03 | 17.20 |
| Indication of catheterization (n,%)  |  |  |
|  Diagnostic | 0 |  |
|  Operability | 42 | 33.9 |
|  Therapeutic | 82 | 76.1 |
| PVRi Median (IQR) | 2.57  | 1.23,4.93 |
| Operability classification |  |  |
|  Operable n,%  | 101 | 81.5 |
|  Borderline n,% | 11 | 8.9 |
|  Inoperable n,% | 12 | 9.7 |
| VSD (n=64) |
| Age in years (Median, IQR) | 12 | 5.75,18 |
| Age < 18 years (n,%) | 49 | 75.4 |
| M:F | 38:26 | 1.46:1 |
| Body weight (Mean, SD) | 29.88 | ±16.78 |
| PA Mean (Mean, SD) | 61.16 | ±25.04 |
| Indication of catheterization (n,%) |  |  |
|  Diagnostic | 01 | 1.6 |
|  Operability | 62 | 96.8 |
|  Therapeutic | 01 | 1.6 |
| PVRi Median (IQR) | 10.18 | 4.32,17.42 |
| Operability classification |  |  |
|  Operable n,%  | 27 | 42.2 |
|  Borderline n,% | 19 | 29.7 |
|  Inoperable n,% | 18 | 28.2 |
| PDA (n=95) |
| Age in years (Median, IQR) | 5 | 1.8,12 |
| Age < 18 years (n,%) | 82 | 86.3 |
| M:F | 46:49 | 0.94:1 |
| Body weight (Mean, SD) | 21.44 | ±17.05 |
| PA Mean (Mean, SD) | 31.68 | ±20.15 |
| Indication of catheterization |  |  |
|  Diagnostic | 0 |  |
|  Operability | 9 | 9.5 |
|  Theraputic | 86 | 90.5 |
| PVRi Median, IQR | 3.00 | 1.99,4.8 |
| Operability classification |  |  |
|  Operable n,%  | 87 | 92 |
|  Borderline n,% | 3 | 3.2 |
|  Inoperable n,% | 5 | 5.3 |
| AVSD (n=12) |  |  |
| Age in years (Median, IQR) | 11.5 | 3,19.5 |
| Age < 18 years (n,%) | 8 | 66.67 |
| M:F | 5:7 | 0.7:1 |
| Body weight (Mean, SD) | 25.79 | ±20.21 |
| PA Mean (Mean, SD) | 50.17 | ±27.39 |
| Indication of catheterization (n,%) |  |  |
|  Diagnostic | 0 |  |
|  Operability | 12 | 100 |
|  Theraputic | 0 |  |
| PVRi Median (IQR) | 5.72 | 2.9,12.85 |
| Operability classification |  |  |
|  Operable n,%  | 7 | 58.3 |
|  Borderline n,% | 2 | 16.7 |
|  Inoperable n,% | 3 | 25 |
| Others (n=3, 02 Persistent truncus arteriosus, 01 AP window) |
| Age in years (Median, IQR) | 6 | 3,7 |
| Age < 18 years (n,%) | 3 | 100 |
| M:F | 1:2 | 0.5:1 |
| Body weight (Mean, SD) | 9.6 | ±5.6 |
| PA Mean (Mean, SD) | 76.33 | ±29.02 |
| Indication of catheterization (n,%) |  |  |
|  Diagnostic | 0 |  |
|  Operability | 02 |  |
|  Therapeutic | 01 |  |
| PVRi Median (IQR) | 19.75 | 12.1,31.38 |
| Operability classification |  |  |
|  Operable n,%  | 1 | 33.4 |
|  Borderline n,% | 0 | - |
|  Inoperable n,% | 2 | 66.6 |

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| ***Supplemenmtary Table 2 : PCa values for the study population*** |
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| **Lesion** | Category/PCa Median (IQR) | Category/PCaMedian (IQR) | p |
| **ACHD Inc Qp** | Operable2.67 (1.88,4.08) | Inoperable0.52 (0.39,0.73) | <0.001 |
|  | Operable2.67 (1.88,4.08) | Borderline0.80 (0.66,1.02) | <0.001 |
|  | Borderline0.80 (0.66,1.02) | Inoperable0.52 (0.39,0.73) | 0.13 |
| **ASD** |  |  |  |
|  | Operable3.05 (2.07,4.76) | Inoperable0.45 (0.28, 0.53) | <0.001 |
|  | Operable3.05 (2.07,4.76) | Borderline0.78 (0.55,0.94) | <0.001 |
|  | Borderline0.78 (0.55,0.94) | Inoperable0.45 (0.28, 0.53) | 0.98 |
| **VSD** |  |  |  |
|  | Operable2.3 (1.8,2.64) | Inoperable0.59 (0.43,0.75) | <0.001 |
|  | Operable2.3 (1.8,2.64) | Borderline0.85 (0.73,1.04) | <0.001 |
|  | Borderline0.85 (0.73,1.04) | Inoperable0.59 (0.43,0.75) | 0.12 |
| **PDA** |  |  |  |
|  | Operable2.54 (1.8,3.36) | Inoperable0.68 (0.42,0.76) | <0.001 |
|  | Operable2.54 (1.8,3.36) | Borderline1.1 (0.82,1.52) | 0.03 |
|  | Borderline1.1 (0.82,1.52) | Inoperable0.68 (0.42,0.76) | 0.89 |
| **AVSD** |  |  |  |
|  | Operable1.77 (1.21,3.57) | Inoperable0.6 (0.56,0.66) | 0.02 |
|  | Operable1.77 (1.21,3.57) | Borderline0.73 (0.70,0.76) | 0.32 |
|  | Borderline0.73 (0.70,0.76) | Inoperable0.6 (0.56,0.66) | 0.71 |

Supplementary Figure 2 : Relation of patients age with PCa

Supplementary Figure 1 : Relation of PCa and PVRi in individual lesions

