**Supplementary file 11. Subphenotypes of CHD cohort.**

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| **Cardiac Phenotypes** | **Subjects** | **Subjects Frequency****(%)** |
| Tetralogy of Fallot  | 89 (46/43)\* | 29.7 |
| Pulmonary atresia  | 60 (19/41)\* | 20 |
| Double outlet right ventricle  | 59 (30/29)\* | 19.7 |
| Transposition of great arteries | 46 (29/17)\* | 15.3 |
| Single atrium/single ventricle | 27  | 9 |
| Tricuspid atresia | 11 | 3.7 |
| Interrupted aortic arch | 8 | 2.7 |
| **Total** | 300 |  |

\*, numbers within parentheses indicate the numbers of patients with/without ASD.