**Supplementary Tables**

**Supplementary Table S1**

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| Table S1. Impact of PA indices on early postoperative hemodynamics (non-fenestrated TCPC) |
|   | Univariate |   | Multivariate |
| Variables | p-value | OR | 95% CI |   | p-value | OR | 95% CI |
| **A. PAP>17mmHg 12 hours after extubation** |
| Pre BCPS variables |  |  |  |  |  |  |  |
|  PA index | **0.011** | 0.992 | 0.986-0.998 |  | **0.012** | 0.992 | 0.986-0.998 |
|  RPA index | **0.026** | 0.990 | 0.981-0.999 |  |  |  |  |
|  LPA index | **0.023** | 0.986 | 0.974-0.998 |  |  |  |  |
|  L to R ratio | 0.618 | 0.806 | 0.345-1.882 |  |  |  |  |
|  Assymmetry index | 0.665 | 1.496 | 0.242-9.260 |  |  |  |  |
| Pre TCPC variables |  |  |  |  |  |  |  |
|  PA index | 0.198 | 0.996 | 0.991-1.002 |  |  |  |  |
|  RPA index | 0.492 | 0.997 | 0.990-1.005 |  |  |  |  |
|  LPA index | 0.088 | 0.991 | 0.9811.001 |  |  |  |  |
|  L to R ratio | 0.100 | 0.458 | 0.181-1.161 |  |  |  |  |
|  Assymmetry index | 0.056 | 0.212 | 0.043-1.041 |  |  |  |  |
| **B. MAP<57mmHg 12 hours after extubation** |
| Pre BCPS variables |  |  |  |  |  |  |  |
|  PA index | 0.848 | 1.000 | 0.997-1.004 |  |  |  |  |
|  RPA index | 0.776 | 0.999 | 0.994-1.005 |  |  |  |  |
|  LPA index | 0.503 | 1.002 | 0.995-1.010 |  |  |  |  |
|  L to R ratio | 0.414 | 1.328 | 0.672-2.626 |  |  |  |  |
|  Assymmetry index | 0.682 | 1.397 | 0.283-6.895 |  |  |  |  |
| Pre TCPC variables |  |  |  |  |  |  |  |
|  PA index | 0.372 | 0.998 | 0.993-1.002 |  |  |  |  |
|  RPA index | 0.228 | 0.996 | 0.989-1.003 |  |  |  |  |
|  LPA index | 0.859 | 0.999 | 0.991-1.007 |  |  |  |  |
|  L to R ratio | 0.595 | 1.197 | 0.617-2.321 |  |  |  |  |
|  Assymmetry index | 0.567 | 1.465 | 0.397-5.410 |  |  |  |  |
|  **C. LAC>4.5mg/dl 6 hours after extubation** |
| Pre BCPS variables |  |  |  |  |  |  |  |
|  PA index | **0.001** | 0.990 | 0.984-0.996 |  |  |  |  |
|  RPA index | **0.001** | 0.984 | 0.975-0.994 |  | **<0.001** | 0.990 | 0.984-0.996 |
|  LPA index | **0.008** | 0.985 | 0.975-0.996 |  |  |  |  |
|  L to R ratio | 0.288 | 1.454 | 0.729-2.898 |  |  |  |  |
|  Assymmetry index | 0.354 | 2.197 | 0.415-11.619 |  |  |  |  |
| Pre TCPC variables |  |  |  |  |  |  |  |
|  PA index | 0.077 | 0.995 | 0.990-1.000 |  |  |  |  |
|  RPA index | 0.152 | 0.995 | 0.988-1.002 |  |  |  |  |
|  LPA index | 0.099 | 0.992 | 0.983-1.001 |  |  |  |  |
|  L to R ratio | 0.689 | 1.150 | 0.581-2.278 |  |  |  |  |
|  Assymmetry index | 0.071 | 0.260 | 0.060-1.121 |   |   |   |   |

Bold indicates p<0.05

**Supplementary Table S2**

|  |  |  |
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| Table S1. Results of ROC analysis |  |  |
| Variables | Youden Index | Cut-off value | Area |
| **PAP>17mmHg** |  |  |  |
| Pre-BCPS variables |  |  |  |
|  PA index | 0.292 | 154 | 0.367 |
|  RPA index | 0.272 | 86 | 0.386 |
|  LPA index | 0.215 | 71 | 0.385 |
| Pre-TCPC variables |  |  |  |
|  LPA index | 0.293 | 54 | 0.355 |
|  Asymmetry index | 0.201 | 0.54 | 0.403 |
| **LAC>4.5mg/dl**  |  |  |  |
| Pre-BCPS variables |  |  |  |
|  PA index | 0.310 | 170 | 0.300 |
|  RPA index | 0.310 | 70 | 0.298 |
|  LPA index | 0.258 | 60 | 0.373 |
| Pre-TCPC variables |  |  |  |
|  PA index | 0.182 | 169 | 0.405 |