

Table S1 Subgroups with different injection protocol

| Subgroup | Injection protocol | | | |
|----------|---------------------|-------------|------------------------|-------------|
| | Iohexol (350 mg/mL) | | Sodium Chloride (0.9%) | |
| | Rate (mL/s) | Volume (mL) | Rate (mL/s) | Volume (mL) |
| 1 | 1.5 | 1.0 | 1.5 | 4.0 |
| 2 | 1.5 | 2.0 | 1.5 | 5.0 |
| 3 | 2.0 | 1.0 | 2.0 | 4.0 |
| 4 | 2.0 | 2.0 | 2.0 | 5.0 |

The same volume plus additional 3 mL (the volume of type “Y” connecting tube was 3 mL) sodium chloride (0.9%) with same rate was injected following injection of iohexol for sake of bolus injection.

Table S2 Intergroup comparisons of key parameters of TDC

| Subgroups | P value | | | |
|-----------|-----------------|-----------------|-----------------|---------|
| | PA-max | Spa-max | AA-max | Tpa-aa |
| | 0.0025* | 0.0027* | 0.0035* | 0.4975* |
| 2 vs. 1 | 0.004151 | <i>0.000408</i> | 0.012614 | – |
| 2 vs. 3 | <i>0.000656</i> | 0.023337 | <i>0.000749</i> | – |
| 2 vs. 4 | 0.257740 | 0.343962 | 0.343962 | – |

(I) PA-max-maximum enhancement CT value of pulmonary artery; Tpa-max-time to PA-max; Spa-max-slope of PA-max; AA-max-maximum enhancement CT value of aortic artery; Tpa-aa-time difference to peak of PA-max and AA-max. P value marked with “*” utilizing the standard-a =0.05, and the left utilizing the standard-a =0.004167. P value in italic indicating significant difference. (II) Intergroup comparisons were made partially, because of the preliminary observation of TDCs getting the targeted protocols. TDC, time-density curve.

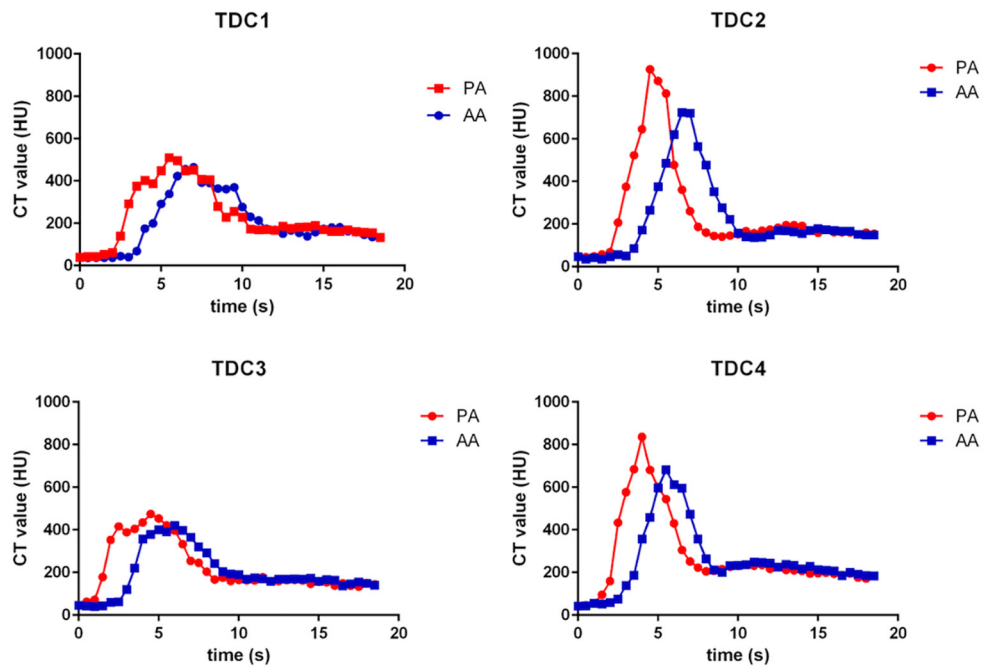


Figure S1 Time-density curves (TDCs) of dual circulation in subgroups. TDCs were similar in an asymmetric bell, and TDCs in the subgroup 2 (TDC2) and the subgroup 4 (TDC4) were sharper than those of subgroup 1 (TDC1) and subgroup 3 (TDC3).