

ONLINE SUPPLEMENTARY MATERIAL**Supplementary File 1. Scan parameters for Siemens SOMATOM Flash**

Protocol	Native	Ascending aorta	Aorta (flash)
Mode	Spiral	Spiral	High pitch
Collimation (mm)	0.6	0.6	0.6
Acquisition (mm)	128*0.6	128*0.6	128*0.6
Tube voltage (kVp)	120	100	100
Dose modulation	on	on	on
mAs _{ref}	100	330	150
Rot. Time (s)	0.5	0.28	0.28
Pitch	0.9	0.17	2.65
Delay (s)	n.a.	Test bolus technique	Test bolus technique
Direction	Cranio-caudal	Caudo-cranial	Cranio-caudal
Reconstruction 1			
Slice thickness(mm)	2	0.6	1.5
Increment (mm)	1.5	0.4	1.0
Kernel	I30f	I26f	I31f

kVp: peak kilovoltage; *mAs*: milliampere-seconds

Supplementary File 2. Scan parameters for Siemens SOMATOM Force

Protocol Force	Native	Ascending aorta	Aorta (flash)
Mode	Spiral	Spiral	High pitch
Collimation (mm)	0.6	0.6	0.6
Acquisition (mm)	192*0.6	192*0.6	192*0.6
Tube voltage (kVp)	120	100	80
Dose modulation	on	on	on
mAs _{ref}	80	330	174
Rot. Time (s)	0.5	0.25	0.25
Pitch	0.9	0.15	1.9
Delay (s)	n.a.	Test bolus technique	Test bolus technique
Direction	Cranio-caudal	Caudo-cranial	Cranio-caudal
Reconstruction 1			
Slice thickness (mm)	2	0.6	1.5
Increment (mm)	1.5	0.4	1.0
Kernel	Br40	Bv40	Bv40

kVp: peak kilovoltage; *mAs*: milliampere-seconds

Supplementary File 3. Scatterplots with correlation coefficients of the various parameters for the different group.

