

Supplementary Information

Supplementary Table S1

Questionnaire for estimation of NYHA class.

Question	Interpretation
Have you been diagnosed with a heart disease? Yes / No	
If yes, please choose one of the following which best describes your normal level of activities:	
I can undertake all ordinary physical activities without undue fatigue, shortness of breath or heart palpitations, e.g., walk briskly upstairs more than two floors, jog, walk uphill or long distances, swim, ski, shovel snow, spade soil.	NYHA I
I feel undue fatigue, shortness of breath or heart palpitations with ordinary physical activities, , e.g., walk briskly upstairs more than two floors, jog, walk uphill or long distances, swim, ski, shovel snow, spade soil.	NYHA II
I feel undue fatigue, shortness of breath, heart palpitations or chest pain with less than ordinary physical activities, e.g. climb one flight of stairs at normal pace without stopping, fast walking on level ground.	NYHA III
I feel undue fatigue, shortness of breath or heart palpitations at rest, increasing with any physical activity.	NYHA IV

Supplementary Table S2

Summary of CT protocol parameters.

Parameter	Group-A protocol	Group-B protocol	Routine protocol
CT scan			
Collimation	128 x 0.6	128 x 0.6	128 x 0.6
Tube voltage (kV _p)	80	100	Automatic tube voltage selection (80-120 kV _p)
Reference tube current (mAs)	210	123	239 (at 80 kV _p)
Automatic tube current modulation	Yes	Yes	Yes
Pitch	1.2	1.2	1.2
Image reconstruction			
Iterative reconstruction	SAFIRE, level 3/5	SAFIRE, level 3/5	None
Kernel	I26f	I26f	B20f
Slice thickness (mm)	1.0	1.0	1.0
Slice increment (mm)	0.7	0.7	0.7
Contrast medium			
Contrast medium iodine concentration (mg*I/ml)	350	350	350
Bolus injection volume (ml)	54	60	90
Thereof saline (ml, %)	12.4 (23%)	10.2 (17%)	0 (0%)
Bolus iodine concentration (mg*I/ml)	269	292	350
Injection rate (ml/s)	3.7	4.1	4.0
Injection time (s)	14.5	14.5	22.5
Iodine delivery rate (g*I/s)	1.0	1.2	1.4
Total iodine dose (g*I)	14.5	17.4	31.5
Total iodine dose saving	54.0%	44.8%	-
Saline chaser (ml)	30	30	40