

Multiphase aortic valve calcium scoring on true-non-contrast and calcium-preserving spectral reconstructions using dual-source photon-counting detector CT

ELECTRONIC SUPPLEMENTARY MATERIAL

Table S-1 Scan protocols					
	Van der Bie et al.*	Feldle et al [14].	Mergen et al [5].	Risch et al [12].	Sartoretti et al [13].
CT system	NAEOTOM ALPHA	NAEOTOM ALPHA	NAEOTOM ALPHA	NAEOTOM ALPHA	NAEOTOM ALPHA
Patients (n)	100	150	90	41	66
Tube voltage [kV]					
TNC	120	120	120	120	120
VNI	120	120	120	120	120
Collimation [mm]	144x0.4	144x0.4	144x0.4	144x0.4	NR*
Reconstructed slice thickness [mm]					
TNC	3.0	3.0	3.0	3.0	3.0
VNI	3.0	3.0	3.0	1.0 0.4	3.0
Increments [mm]					
TNC	1.5	1.5	1.5	1.5	1.5
VNI	1.5	1.5	1.5	0.4 0.2	1.5
Scan mode					
TNC	Prospective sequential	Prospective high pitch	Prospective sequential	Prospective high pitch	Prospective sequential
VNI	Prospective sequential	Prospective high pitch OR Retrospective variable**	Prospective sequential	Prospective high pitch	Prospective sequential
Phase	Best systolic; 300ms, +150;:50:450ms	NR	230 ms from R-wave	NR	280 ms from R-wave
Matrix size	512x512	512x512	512x512	512x512	512x512
Virtual monoenergetic image [KeV]					
TNC	70	70	70	70	70
VNI	70	70	60, 70, 80, 90	70	70
Kernel					
TNC	Qr36	Qr36	Qr36	Qr36	Qr36
VNI	Qr36	Qr36	Qr36	Qr36, Br36	Qr36
Iterative reconstruction strength					
TNC	Off	Off	Off	Off	Off
VNI	Off	Off	2,3,4	4	Off
*Current study					
**Depending on the heart rate					
NR; not reported, TNC; True non-contrast, VNI; virtual-non-iodine					