

Supplemental Appendix

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Supplemental Fig. 1. Classification of CACS categories using adjusted VNC and TNC imaging after application of a correction factor of 1.10 to VNC-derived CACS.

AU, Agatston units; CACS, coronary artery calcium score; TNC, true non-contrast; VNC, virtual non-contrast.

	TNC-CACS					
		0 AU	1–99 AU	100–399 AU	400–999 AU	≥1,000 AU
Adjusted VNC-CACS	0 AU	5	5	0	0	0
	1–99 AU	0	19	2	0	0
	100–399 AU	0	1	10	3	0
	400–999 AU	0	0	0	10	6
	≥1,000 AU	0	0	0	1	26

Supplemental Fig. 2. Classification of high ($\geq 1,000$ AU) (A) and low (0–99 AU) (B) CACS categories using adjusted VNC and TNC imaging after application of a correction factor of 1.10 to VNC-derived CACS.

AU, Agatston units; CACS, coronary artery calcium score; TNC, true non-contrast; VNC, virtual non-contrast.

(A)

	TNC-CACS		
		<1,000 AU	$\geq 1,000$ AU
Adjusted VNC-CACS	<1,000 AU	55	6
	$\geq 1,000$ AU	1	26

(B)

	TNC-CACS		
		0–99 AU	≥ 100 AU
Adjusted VNC-CACS	0–99 AU	29	1
	≥ 100 AU	2	56

Supplemental Fig. 3. The classification of the likelihood of severe AS based on AVCS, as outlined in the recent ESC/EACTS guidelines

AS, aortic stenosis; AU, Agatston units; AVC, aortic valve calcium: AVCS, aortic valve calcium score; EACTS, European Association for Cardio-Thoracic Surgery; ESC, European Society of Cardiology; TNC, true non-contrast; VNC, virtual non-contrast.

(a)

“Highly likely” threshold
men >3,000 AU
women >1,600 AU

		TNC-AVCS	
		Non severe AS	Severe AS
VNC-AVCS	Non severe AS	63	3
	Severe AS	4	18

(b)

“Likely” threshold
men >2,000 AU
women >1,200 AU

		TNC-AVCS	
		Non severe AS	Severe AS
VNC-AVCS	Non severe AS	53	2
	Severe AS	0	33

Supplemental Fig. 4. The distribution of AVCS-based categories for the likelihood of severe AS in accordance with the recent ESC/EACTS guidelines. The p-value reflects the proportional differences in AVCS-based diagnoses between TNC and VNC.

AS, aortic stenosis; AU, Agatston units; AVC, aortic valve calcium; AVCS, aortic valve calcium score; EACTS, European Association for Cardio-Thoracic Surgery; ESC, European Society of Cardiology; TNC, true non-contrast; VNC, virtual non-contrast.

