

Appendix

TABLE A1. Baseline characteristics

Parameters	EID-CT scans							PCD-CT	p*
	(n = 140)							scans	
	70 kV	80 kV	90 kV	100 kV	110 kV	120 kV	All	(n = 118)	
	(n = 26)	(n = 38)	(n = 40)	(n = 23)	(n = 6)	(n = 7)	(n = 140)		
Age [years]	64.1 ± 18.3	62.5 ± 16.9	67.1 ± 14.3	64.8 ± 12.9	70.0 ± 11.1	52.9 ± 12.1	64.3 ± 15.6	64.3 ± 15.3	0.90*
Gender [% female]	80.8%	39.5%	50.0%	26.1%	33.3%	28.6%	47.1%	61.0%	0.03†
TBW [kg]	62.7 ± 13.1	75.4 ± 11.5	82.1 ± 13.4	94.7 ± 18.9	85.3 ± 3.6	106.6 ± 31.5	80.1 ± 18.8	78.3 ± 18.6	0.47*
Height [cm]	166 ± 7.5	172 ± 9	171 ± 10	176 ± 9	174 ± 7	179 ± 12	172 ± 10	170 ± 9	0.09°
BMI [kg/m²]	22.8 ± 4.6	25.6 ± 3.3	28.1 ± 4.3	30.6 ± 6.8	28.2 ± 2.4	32.9 ± 8.2	27.1 ± 5.5	26.7 ± 5.3	0.64*

*Mann-Whitney U test; † Chi-square test; °Independent sample T-test

EID, energy integrating detector; PCD, photon counting detector; TBW, total body weight; BMI, body mass index.

TABLE A2. Objective image quality outcomes stratified by Gender

	<i>EID-CT scans</i> <i>(Male, n = 74</i> <i>Female, n = 66)</i>	<i>PCD-CT scans</i> <i>(Male, n = 46</i> <i>Female, n = 72)</i>	<i>p*</i>
<i>Proximal</i>			
Mean attenuation ($\pm$ SD) [HU]			
Male	368.7 $\pm$ 125.9	376.1 $\pm$ 111.3	0.54
Female	402.7 $\pm$ 74.5	380.6 $\pm$ 93.9	0.11
SNR ($\pm$ SD)			
Male	14.1 $\pm$ 4.7	13.7 $\pm$ 3.4	0.94
Female	15.8 $\pm$ 3.3	14.9 $\pm$ 4.5	0.06
CNR ($\pm$ SD)			
Male	17.8 $\pm$ 10.7	15.0 $\pm$ 5.1	0.45
Female	19.7 $\pm$ 7.3	16.5 $\pm$ 6.4	0.003
<i>Distal</i>			
Mean attenuation ($\pm$ SD) [HU]			
Male	349.4 $\pm$ 122.1	365.4 $\pm$ 115.4	0.36
Female	390.4 $\pm$ 83.7	378.8 $\pm$ 91.9	0.41
SNR ($\pm$ SD)			
Male	19.5 $\pm$ 7.3	19.0 $\pm$ 5.1	0.98
Female	21.5 $\pm$ 5.9	19.3 $\pm$ 5.2	0.01
CNR ($\pm$ SD)			
Male	16.8 $\pm$ 10.6	14.4 $\pm$ 4.9	0.63
Female	19.0 $\pm$ 7.3	16.4 $\pm$ 6.4	0.02
*Mann-Whitney U test			
EID, energy integrating detector; PCD, photon counting detector; HU, Hounsfield unit; SD, standard deviation; SNR, signal-to-noise ratio; CNR, contrast-to-noise ratio.			