

SUPPLEMENTARY MATERIAL

Supplementary Table 1. Objective evaluation of axial CT images – noise values (median with range)

			ONYX 18				
			0 cm	0.5 cm	1 cm	1.5cm	All ROIs
			153.5 (51.5-331.2)	34.6 (14.6-45.8)	12.7 (11.7-14.2)	8.7 (7.7-9.2)	14.42 (7.7-331.2)
SQUID 18	0 cm	10.6 (9.5-11.7)	p=0.02				
	0.5 cm	8.7 (6.7-10.1)		p=0.02			
	1 cm	5.8 (5.3-6.7)			p=0.02		
	1.5 cm	6.1 (5.8-6.3)				p=0.02	
	All ROIs	6.7 (5.3-11.7)					<0.001
SQUID 18 LD	0 cm	13.7 (11.8-16.7)	p=0.02				
	0.5 cm	8.4 (6.1-9.2)		p=0.02			
	1 cm	5.7 (5.1-6.0)			p=0.02		
	1.5 cm	5.7 (5.6-6.2)				p=0.02	
	All ROIs	6.1 (5.1-16.7)					<0.001
SQUID 12	0 cm	18.75 (15.8-46.7)	p=0.02				
	0.5 cm	11 (7.8-19.4)		p=0.05			
	1 cm	7.5 (5.9-8.3)			p=0.02		
	1.5 cm	6.2 (5.8-6.4)				p=0.02	
	All ROIs	8 (5.8-46.7)					p=0.008
SQUID 12 LD	0 cm	12.5 (12-13.9)	p=0.02				
	0.5 cm	9.2 (9.1-9.9)		p=0.02			
	1 cm	6.9 (5.1-8.2)			p=0.02		
	1.5 cm	6.6 (5.9-8.5)				p=0.05	
	All ROIs	8.8 (5.1-13.9)					<0.001

Supplementary Table 2. Objective evaluation of axial CT images – HU range values (median with range)

			ONYX 18				
			0 cm	0.5 cm	1 cm	1.5cm	All ROIs
			907.5 (280-1288)	192.5 (91-212)	62 (55-93)	39 (35-51)	92 (35-1288)
SQUID 18	0 cm	53.5 (46-64)	p=0.02				
	0.5 cm	39 (32-47)		p=0.02			
	1 cm	28.5 (26-41)			p=0.02		
	1.5 cm	31.5 (31-34)				p=0.02	
	All ROIs	35 (26-64)					<0.001
SQUID 18 LD	0 cm	72 (68-85)	p=0.02				
	0.5 cm	41 (37-45)		p=0.02			
	1 cm	29.5 (24-35)			p=0.02		
	1.5 cm	31 (28-32)				p=0.02	
	All ROIs	36 (24-85)					<0.001
SQUID 12	0 cm	115.5 (100-281)	p=0.05				
	0.5 cm	63 (42-84)		p=0.02			
	1 cm	40 (30-44)			p=0.02		
	1.5 cm	34.5 (29-37)				p=0.3	
	All ROIs	43.5 (29-281)					p=0.02
SQUID 12 LD	0 cm	71 (64-78)	p=0.02				
	0.5 cm	47.5 (44-51)		p=0.02			
	1 cm	38.5 (29-47)			p=0.02		
	1.5 cm	36 (28-52)				p=0.06	
	All ROIs	46.5 (28-78)					p=0.003

Supplementary Table 3. Objective evaluation of axial flat panel CT images – noise values (median with range)

			ONYX 18				
			0 cm	0.5 cm	1 cm	1.5cm	All ROIs
			141.7 (94.2-254.9)	110.5 (88.4-132.6)	81.95 (66-136.3)	71.3 (65.5-113.5)	98.7 (65.5-254.9)
SQUID 18	0 cm	47.7 (37.3-51.8)	p=0.02				
	0.5 cm	38.6 (29.5-44.5)		p=0.02			
	1 cm	31.6 (26-34.2)			p=0.02		
	1.5 cm	26.9 (25.2-34.6)				p=0.02	
	All ROIs	34.7 (25.2-48.1)					<0.001
SQUID 18 LD	0 cm	41.7 (35.3-57.1)	p=0.02				
	0.5 cm	32.5 (23.8-39.4)		p=0.02			
	1 cm	30.4 (27.3-33.2)			p=0.02		
	1.5 cm	27.3 (27.2-31)				p=0.02	
	All ROIs	31.9 (23.8-57.1)					<0.001
SQUID 12	0 cm	84.1 (47.3-144.4)	p=0.05				
	0.5 cm	56.5 (43-92.9)		p=0.05			
	1 cm	43.8 (32.5-70)			p=0.05		
	1.5 cm	40.2 (27.3-58.5)				p=0.02	
	All ROIs	51 (27.3-144.4)					<0.001
SQUID 12 LD	0 cm	48.8 (40-56.3)	p=0.02				
	0.5 cm	46.1 (39.3-52.4)		p=0.02			
	1 cm	40 (35.5-52.8)			p=0.02		
	1.5 cm	32.9 (29.4-37.9)				p=0.02	
	All ROIs	40.7 (29.4-56.3)					<0.001

Supplementary Table 4. Objective evaluation of axial flat panel CT images – HU range values (median with range)

			ONYX 18				
			0 cm	0.5 cm	1 cm	1.5cm	All ROIs
			855 (551-1319)	524 (429-719)	397 (320-637)	336.5 (314-485)	469 (314-1319)
SQUID 18	0 cm	275 (246-314)	p=0.02				
	0.5 cm	204 (174-289)		p=0.02			
	1 cm	175 (139-188)			p=0.02		
	1.5 cm	155.5 (131-177)				p=0.02	
	All ROIs	182.5 (131-314)					<0.001
SQUID 18 LD	0 cm	225 (189-321)	p=0.02				
	0.5 cm	176 (145-221)		p=0.02			
	1 cm	155 (145-202)			p=0.02		
	1.5 cm	152 (140-176)				p=0.02	
	All ROIs	173.5 (140-321)					<0.001
SQUID 12	0 cm	416 (232-817)	p=0.05				
	0.5 cm	277.5 (201-447)		p=0.05			
	1 cm	262 (171-328)			p=0.05		
	1.5 cm	217.5 (141-291)				p=0.02	
	All ROIs	270 (141-817)					<0.001
SQUID 12 LD	0 cm	270.5 (221-308)	p=0.02				
	0.5 cm	240 (205-287)		p=0.02			
	1 cm	241.5 (225-258)			p=0.02		
	1.5 cm	194.5 (150-200)				p=0.02	
	All ROIs	229 (150-308)					<0.001

Supplementary Table 5. Objective evaluation of longitudinal CT images – noise and HU range values (median with range)

			ONYX 18	
			Noise	HU range
			80.5 (56.5-87.8)	1187 (629-1471)
SQUID 18	Noise	18.25 (15.9-31.9)	p=0.02	
	HU range	189 (142-381)		p=0.02
SQUID 18 LD	Noise	13.05 (11.8-14.2)	p=0.02	
	HU range	118 (97-119)		p=0.02
SQUID 12	Noise	23.75 (21.3-28.4)	p=0.02	
	HU range	243 (181-331)		p=0.02
SQUID 12 LD	Noise	13 (10.8-19.1)	p=0.02	
	HU range	110 (102-223)		p=0.02

Supplementary Table 6. Objective evaluation of longitudinal flat panel CT images – noise and HU range values (median with range)

			ONYX 18	
			Noise	HU range
			195 (149.3-217.1)	1550 (1204-2639)
SQUID 18	Noise	73.6 (59.2-101.5)	p=0.02	
	HU range	770 (699-834)		p=0.02
SQUID 18 LD	Noise	38.2 (30.9-44)	p=0.02	
	HU range	326.5 (252-407)		p=0.02
SQUID 12	Noise	85.3 (56.3-106.4)	p=0.02	
	HU range	775.5 (668-884)		p=0.02
SQUID 12 LD	Noise	40.2 (36.7-45.6)	p=0.02	
	HU range	273 (222-379)		p=0.02

Supplementary Figure 1. Median values of noise and HU range at respective concentric points on axial CT images

