Supplementary Table 3. Multivariable Logistic Regression Analysis for Willingness to Immediately Change to 2-mSv CT

	Willingness to	Univariable Analysis		Multivariable Analysis	
Covariates	Immediately Change to 2-mSv CT*	Odds Ratio (95% CI)	Р	Odds Ratio (95% CI)	Р
Department					
Radiology	62/221 (28.1%)	Reference		Reference	
Emergency medicine	45/196 (23%)	0.8 (0.5–1.2)	0.24	0.7 (0.4-1.1)	0.13
Surgery	51/162 (32%)	1.2 (0.8-1.8)	0.47	1.2 (0.7-1.9)	0.57
Job title					
Attendings	73/203 (36.0%)	1.9 (1.3-2.8)	0.001	1.9 (1.2-2.9)	0.00
Trainees	85/376 (22.6%)	Reference		Reference	
Q4. Acceptance of 2-mSv CT [†]					
Yes	150/396 (37.9%)	13.3 (6.4-27.9)	< 0.001		
Partly or no [‡]	8/183 (4%)	Reference			
Q5. Maintaining dedicated appendix CT protocol in hospital information system					
Yes	120/298 (40.3%)	4.3 (2.9-6.5)	< 0.001	4.2 (2.7-6.5)	< 0.00
Partly or no [‡]	38/281 (13.5%)	Reference		Reference	
Q6. Timeliness and accuracy of CT reports [†]	, , ,				
Yes	137/471 (29.1%)	1.7 (1.0-2.8)	0.044		
Partly or no [‡]	21/108 (19%)	Reference			
Q7. Timeliness and accuracy of 2-mSv CT reports [†]	, , ,				
Yes	136/468 (29.1%)	1.7 (1.0-2.8)	0.051		
Partly or no [‡]	22/111(20%)	Reference			
Q8. In comparison to natural background radiation	, , ,				
0.4-fold or less [‡]	44/178 (25%)	0.7 (0.5-1.1)	0.145	0.8 (0.5-1.3)	0.40
4-fold	63/200 (31.5%)	Reference		Reference	
40-fold or more [‡]	51/201 (25.4%)	0.7 (0.5-1.1)	0.174	0.8 (0.5-1.3)	0.32
Q9. Evidence level of carcinogenic risk	, , ,	,		,	
Yes	64/181 (35%)	1.8 (1.2-2.6)	0.003	1.6 (1.1-2.5)	0.02
Partly or no [‡]	94/398 (23.6%)	Reference		Reference	
lospital characteristics	.,				
Using iterative reconstruction					
Yes	78/268 (29.1%)	0.8 (0.6-1.2)	0.36	1.1 (0.7–1.7)	0.73
No	80/311 (25.7%)	Reference		Reference	
Number of annual appendectomies	5-, (1.)				
< 200	58/200 (29.0%)	Reference		Reference	
200–399	55/183 (30%)	1.1 (0.7-1.6)	0.82	0.9 (0.5–1.6)	0.66
≥ 400	45/196 (23%)	0.7 (0.5–1.1)	0.171	0.7 (0.4–1.2)	0.19
Number of beds	.5, 255 (25 /6)	31. (313 111)	J.1, 1	2 (3.1 2.2)	0.13
< 700	23/99 (23%)	Reference		Reference	
700–999	43/190 (23%)	1.0 (0.5–1.7)	0.91	1.4 (0.7–2.9)	0.37
≥ 1000	92/290 (31.7%)	1.5 (0.9–2.6)	0.111	2.0 (1.1–3.9)	0.03
Number of enrolled patients in LOCAT	JL, LJO (J1.1 10)	1.5 (0.5 2.0)	0.111	2.0 (1.1 3.3)	0.03
< 100	74/263 (28.1%)	Reference		Reference	
≥ 100	84/316 (26.6%)	0.9 (0.6–1.3)	0.68	0.9 (0.5–1.4)	0.55

For questions regarding willingness or acceptance, "yes" indicated 'completely and consistently while "partly" indicated 'not consistently but selectively (e.g., during working hours): *Data are numbers of participants who responded as "yes" to Q1 out of all participants in category (and percentages), †Not included in multivariable analysis, †Categories with small numbers of patients (< 50) were merged into nearby categories. CI = confidence interval, LOCAT = Low-dOse CT for Appendicitis Trial