

## Erratum to: Conversion coefficients for the estimation of effective dose in cone-beam CT

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The authors would like to correct the errors in the publication of the original article. The corrected details are given below for your reading.

On page 21, Abstract, Results: They should be replaced with “For the C mode, the P mode at the maxilla, and the P mode at the mandible, the CCs were 0.058  $\mu\text{Sv}/\text{mGycm}^2$ , 0.081  $\mu\text{Sv}/\text{mGycm}^2$ , and 0.076  $\mu\text{Sv}/\text{mGycm}^2$ , respectively. For the I mode, the CCs at the maxilla and mandible were 0.097  $\mu\text{Sv}/\text{mGycm}^2$  and 0.122  $\mu\text{Sv}/\text{mGycm}^2$ , respectively. For the D mode at the maxillary incisors, molars, and mandibular molars, the CCs were 0.050  $\mu\text{Sv}/\text{mGycm}^2$ , 0.052  $\mu\text{Sv}/\text{mGycm}^2$ , and 0.197  $\mu\text{Sv}/\text{mGycm}^2$ , respectively”. Conclusion: It should be replaced with “The CCs in one CBCT device with fixed 80 kV ranged from 0.050  $\mu\text{Sv}/\text{mGycm}^2$  to 0.197  $\mu\text{Sv}/\text{mGycm}^2$ ”.

On page 26, Tables 8, 9, and 10 contain some errors. The corrected versions of them are given below:

Page 25, Results, The patient effective dose: Sentences from second to fourth should be replaced with “The effective doses in the adult exposure setting were 216.44

$\mu\text{Sv}$  in the C mode and 365.70  $\mu\text{Sv}$  and 344.61  $\mu\text{Sv}$  in the P mode for the maxilla and mandible, respectively. Additionally, the effective doses for the I mode in the maxilla and mandible were 187.17  $\mu\text{Sv}$  and 236.10  $\mu\text{Sv}$ , respectively. In the D mode, the effective doses were 28.51  $\mu\text{Sv}$ , 31.81  $\mu\text{Sv}$ , and 127.77  $\mu\text{Sv}$  for the maxillary incisors, maxillary molars, and mandibular molars, respectively.”

Page 25, Results, The conversion coefficients: Sentences from second to fourth should be replaced with “For the C mode, the P mode at the maxilla, and the P mode at the mandible, the conversion coefficients were 0.058  $\mu\text{Sv}/\text{mGycm}^2$ , 0.081  $\mu\text{Sv}/\text{mGycm}^2$ , and 0.076  $\mu\text{Sv}/\text{mGycm}^2$ , respectively. For the I mode, the conversion coefficients at the maxilla and mandible were 0.097  $\mu\text{Sv}/\text{mGycm}^2$  and 0.122  $\mu\text{Sv}/\text{mGycm}^2$ , respectively. For the D mode at the maxillary incisors, molars, and mandibular molars, the conversion coefficients were 0.050  $\mu\text{Sv}/\text{mGycm}^2$ , 0.052  $\mu\text{Sv}/\text{mGycm}^2$ , and 0.197  $\mu\text{Sv}/\text{mGycm}^2$ , respectively.”

**Table 8.** Effective dose ( $\mu\text{Sv}$ ) on the adult standard exposure setting according to the imaging modes

Organ/tissues	C mode	P mode		I mode		Maxillary incisor	D mode Maxillary molar	Mandibular molar
		Maxilla	Mandible	Maxilla	Mandible			
Bone marrow	51.26	75.31	73.11	23.46	26.10	5.15	4.95	11.44
Oesophagus	1.11	1.78	1.43	0.68	1.74	0.10	0.24	0.69
Thyroid	21.32	36.76	32.86	16.13	34.88	3.97	4.17	12.63
Bone surface	19.82	29.12	28.27	9.07	10.09	1.99	1.92	4.42
Brain	15.30	25.55	28.34	10.19	4.96	1.15	1.69	0.75
Salivary glands	40.90	73.56	69.31	45.44	62.33	3.64	4.94	35.70
Skin	2.92	5.12	4.21	3.08	1.47	0.73	1.33	1.31
Remainder								
Lymphatic nodes	1.45	2.70	2.42	1.78	2.23	0.27	0.29	1.42
Muscle	1.45	2.70	2.42	1.78	2.23	0.27	0.29	1.42
Extrathoracic airway	27.53	51.05	46.11	34.22	38.30	5.07	5.45	23.88
Oral mucosa	33.38	62.04	56.13	41.32	51.77	6.16	6.56	34.10
Effective dose (total)	216.44	365.70	344.61	187.17	236.10	28.51	31.81	127.77

**Table 9.** Effective dose ( $\mu\text{Sv}$ ) on the low dose exposure setting according to the imaging modes

Organ/tissues	C mode	P mode		I mode		Maxillary incisor	D mode Maxillary molar	Mandibular molar
		Maxilla	Mandible	Maxilla	Mandible			
Bone marrow	32.54	39.22	39.79	10.57	11.43	3.44	3.41	7.97
Oesophagus	1.01	1.11	0.77	0.41	0.82	0.16	0.17	0.35
Thyroid	18.08	20.07	17.69	7.57	16.23	2.55	2.74	7.93
Bone surface	12.58	15.16	15.39	4.09	4.42	1.33	1.32	3.08
Brain	10.45	14.50	18.84	5.17	2.57	4.29	4.74	1.22
Salivary glands	26.11	39.87	36.19	21.11	28.86	2.77	3.15	22.82
Skin	1.96	2.86	2.52	1.63	0.80	0.50	0.71	0.93
Remainder								
Lymphatic nodes	0.97	1.46	1.30	0.85	1.04	0.25	0.19	0.91
Muscle	0.97	1.46	1.30	0.85	1.04	0.25	0.19	0.91
Extrathoracic airway	18.34	27.53	24.69	16.27	17.88	4.55	3.59	15.36
Oral mucosa	22.32	33.79	30.04	19.67	24.05	6.00	4.28	21.89
Effective dose (total)	145.34	197.02	188.53	88.18	109.15	26.10	24.48	83.40

**Table 10.** Conversion coefficients (E/DAP) according to the CBCT imaging modes

Imaging modes	kV	mA	DAP (mGy cm <sup>2</sup> )	E ( $\mu\text{Sv}$ )	Conversion coefficient (E/DAP)
C mode standard	80	6	3704	216	0.058
	80	4	2485	145	
P mode for maxilla	80	9	4499	366	0.081
	80	5	2508	197	
P mode for mandible	80	9	4499	345	0.076
	80	5	2508	189	
I mode for maxilla	80	8	1910	187	0.097
	80	4	956	88	
I mode for mandible	80	8	1910	236	0.122
	80	4	956	109	
D mode for maxillary incisors	80	9	644	29	0.050
	80	6	429	26	
D mode for maxillary molars	80	9	644	32	0.052
	80	6	429	24	
D mode for mandibular molars	80	9	644	128	0.197
	80	6	429	83	

Page 28: Sentence of the last paragraph should be replaced with “In summary, the present study demonstrates the conversion coefficients in one CBCT device with fixed

80 kV ranged from 0.050  $\mu\text{Sv}/\text{mGycm}^2$  to 0.197  $\mu\text{Sv}/\text{mGycm}^2$ ”.