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DOSAGE INFORMATION

COMPARATIVE DOSE INFORMATION

Radiographic Procedure	Effective Dose (µSv)	Equivalent Background Exposure (hours)
Orthopantograph with Plan Mecca	3.85 – 12*	8
20 Film Full Mouth X-Ray with Gendex Phosphorous Imaging Plates	20	48
A 20 Film FMX using Kodak D speed film is approximately 84µSv, digital phosphorous screens are 77% less.		
Lateral Cephalometric	3†	6
Anterior Cephalometric	6	12
NewTom Volume Scan Large Field (largest field of view machine is capable of)	58.9††	144

** Danforth, R.A. and D.E. Clark: Effective dose form radiation absorbed during panoramic examination with a new generation machine. Oral Surgery Oral Med Oral Pathology Oral Radiology Endod 89:236-243, 2000*

† Freeman J.P. and J.W. Brand: Radiation doses of commonly used dental radiographic surveys. Oral Surgery Oral Med Oral Pathology 1994; 77:285-289

†† Ludlow, J. B., L. E. Davies-Ludlow, S. L. Brooks and B. Howerton: Dosimetry of 3 CBCT Devices for Oral and Maxillofacial Radiology: CB Mercuray, NewTom 3G, and i-Cat PDF:Dosimetry of CBCT Devices

NEWTOM VOLUMETRIC SCANNER COMPARED TO ALTERNATIVE CBCT MACHINES

Scan Type	Effective Dose (µSv)	Equivalent Background Exposure (hours)
NewTom Large Scan (12" Field of View)	58.9	144
i-Cat (12" Field of View)	135	270
CB Mercuray (12" Field of View)	289	578
Medical CT Scan of Maxilla & Mandible	2100	4200