

Patient exposure due to bitewing radiography

[Vrije Universiteit te Amsterdam] - Acquiring Pediatric Bitewing Radiographs



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Utility of a Newly Designed Film Holder for Premolar Bitewing Radiography

For dental radiography, the National Radiological Protection Board produced the Guidance Notes for Dental Practitioners in 2001. Patients without evidence of disease and with open proximal contacts may not require radiographic examination at this time. Vertical bitewings are often indicated in patients where current or past periodontitis is suspected so as to better reveal the relationships of the teeth to interproximal crestal bone levels.

Vital guide to radiography and radiation protection

Skin burns and cataracts in the lens of the eye fall into this category. It is a good practice to maintain a logbook to keep track of any films that are retaken. In addition, patients who are at increased risk for developing dental caries because of such factors as poor oral hygiene, high frequency of exposure to sucrose-containing foods, and deficient fluoride intake see caries risk assessment forms, and are more likely to have proximal carious lesions.

Conventional bitewing radiography

When taking a full mouth series on a patient with a full compliment of teeth, four bitewing films are normally taken. It is assumed in this example that the average energy of all beta electrons is 50 keV.

Patient Safety

The types of film used by dental practices in this survey varied, with D-speed film comprising approximately 70% of the film used, E-speed film about 21%, and F-speed film about 9%.

Dental Radiography: Doses and Film Speed

Processors must be regularly serviced, checked for light tightness and undergo regular cleaning of rollers and chemical tanks. The graph of satisfaction scoring for the patients The mean satisfaction acceptance score of the technician was 16.

Exposure Issues

What is the cost of bitewing radiographs? Patient comfort in periapical examination using digital receptors. Much of our information regarding the effects of radiation in humans has come from the study of atomic bomb survivors who were irradiated with high doses while in utero in Nagasaki and Hiroshima, Japan.

Reducing Patient Exposure During Scoliosis Radiography

Ionizing radiation has both teratogenic and carcinogenic effects on the developing fetus. Errors should be identified and film retaken.

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