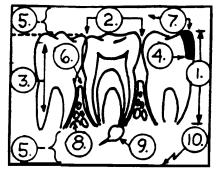
Q.A. Collectibles

Sponsored by CRCPD's Committee on Quality Assurance in Diagnostic X-Ray (H-7)

Make it Easy for Yourself A Checklist Guide for Quality Intraoral Radiographs

The following collectible was originally published in October 1988. In updating this collectible, we want to emphasize the idea that this collectible is for assisting the inspector by providing information. The Committee on Quality Assurance is not in the business of encouraging inspectors to critique films while they are at a facility.



1. Regardless of the distinctive information between bitewing and 6. For bitewings on patients with periodontic involvement, consider periapical studies, correct vertical angulation is essential. Use tube/film vertical film placement to assure demonstrating the interproximal bone alignment instruments to avoid elongating or foreshortening image. This height. will reduce distortion as well as give proper orientation of structures within the film. 7. Correct exposure selection will reveal the full spectrum of subject densities. Films should demonstrate nearly black through the cheek above 2. Attenuation to proper horizontal angulation will minimize overlapping the occlusal plane, to nearly white through metal. Only correct exposure of images. Check patient with mirror to assess tooth rotation and adjust selection and complete development can accomplish this. contact angulation to the buccal-bone plane. 8. The perception of image clarity and sharpness (often most evident in the 3. Paralleling technique not only means that the dental structures are mandibular trabecular pattern) is the ability to discern objects that are either parallel (therefore, not absolutely intimate) to the film plane, but the central small or distinct. Their contrast can be accentuated by (a) low kVp with ray is to be perpendicular to both. The use of a long cone is a valuable proper mA/time selection, (b) long cones, (c) the absence of motion, and advantage for this purpose. Rectangular cones are an even greater most importantly(d) optimum processing. refinement. 9. Faithful image recording: today's fine film emulsions are capable of 4. The bitewing's low angle of 7-15? is valuable to reveal carious areas optically resolving objects as small as 5 to 8 line-pairs per millimeter. concealed on the interproximal surfaces, particularly the posterior teeth Complete and controlled photo-development is the single weakest link in who's buccal-lingual diameters are wide. the entire imaging modality. It is almost impossible to over-emphasize the vital importance of (a) correct and accurate chemical temperature (obtain and 5. For periapicals, show the complete occlusal plane near the film top use a dial or digital thermometer), (b) constant and frequent chemical edge. This will allow at least 3 mm of bone image to show full apical replenishment and changes, (c) continual mechanical maintenance according coverage. If areas of pathology are not surrounded by normal structures on to manufacturer's guides. the film, then consider supplementary views, i.e. occlusals, laterals, or panographs.

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