

UNIVERSITY OF MINNESOTA  
DIVISION OF PEDIATRIC DENTISTRY

TOPIC: RADIOGRAPHIC TECHNIQUES  
IN DENTISTRY FOR CHILDREN

**Assigned Reading:**

McDonald, RE, Avery, DR, and Dean, JA” Dentistry for the Child and Adolescent, C.V. Mosby Co., St. Louis, Eighth Edition, 2004, Chapter 5

**Summary:** The goals of this session are to familiarize students with basic information necessary to determine the radiographs necessary for accurate diagnosis of various oral conditions in children, and the techniques required to secure this data. Emphasis will be on clinical and physical requirements, i.e. types and sizes of films, film and cone placement, patient protection, etc., rather than on interpretation of radiographs. The latter will be attained in the Pediatric Dentistry clinic

Following this session, completion of the reading assignments, and reference to the Pediatric Dentistry Website, the student should be able to:

1. Discuss the ages of patients at which initial radiographs should be considered, and the basic time intervals for follow-up radiographs.
2. Discuss the various types of radiographic views for children. (Bite-wing, Periapical, Occlusal, Panograph, etc.) and give examples of clinical situations in which each might be used.
3. Compare and contrast the value of various radiographic views in determining which should be used.
4. Describe the proper positioning of radiographic film(s) in a patient’s mouth.
5. Describe appropriate bodily protection during the exposure of radiographs for the patient, dentist and staff.
6. Describe in detail the oral structures that should be included in various radiographic exposures.
7. Describe the unique procedures that may be necessary when taking radiographs for (a) an infant; (b) a very young child (12-24 mos); (c) a physically or mentally challenged child.

**NOTE:** The majority of material discussed in this lecture also is available for review via the Pediatric Dentistry Website <[www1.umn.edu/dental/courses/dent\\_5501/](http://www1.umn.edu/dental/courses/dent_5501/)>