Dental Radiation Safety Certification

Presenter: Laurie C. Carter, DDS, PhD
Audience: Dental Assistants; Dental Hygienists; Office Staff
Format: Lecture, Question & Answer Session
Cost: $199 Early Registration; $225 Regular Registration
Credits: 4.00 CEUs Lecture

Description: This course will provide participants with knowledge regarding the production and safe use of ionizing radiation within the dental office.

◊ The nature of radiation and types of interaction of radiation with matter will be presented.
◊ The nature of various natural and man-made radiation and occupational and nonoccupational dose limits will be discussed.
◊ The principles of justification, optimization and dose limitation for patient radiation protection will be illustrated by a review of patient selection criteria, imaging modalities, source-to-skin distance, rectangular collimation, filtration, constant potential x-ray machines, kVp, mAs, film and sensor-holding devices, leaded aprons and collars.
◊ Risks vs. diagnostic benefits of dental radiographs and the subject of retake radiographs will be covered.
◊ Operator (personnel) radiation protection will include the basic methods to reduce occupational exposure, inclusive of position, distance, shielding and radiation dosimetry.
◊ Examples of radiation-induced damage will be reviewed, along with a discussion of the known and unknown effects of low-dose radiation.
◊ Finally, the need for continuing education on radiation safety and protection as new information is acquired will be stressed, as acquiring knowledge and developing and maintaining skills is a life-long process.

Educational Objectives: Upon completion of the course, participants should be able to:
• Describe how ionizing radiation is produced in an x-ray generator.
• Discuss the various modes of interaction of radiation with matter.
• Discuss selection criteria for dental radiographic studies.
• Describe occupational and public dose limits.
• Discuss practical principles of radiation protection for the patient and for the operator.
• Describe circumstances under which retake radiographs should be made.
• Discuss effects of low-dose radiation

Perky Perio

Presenter: Shirley Gutkowski, RDH, BSDH
Audience: Dental Hygienists
Format: Lecture
Cost: $159 Early Registration; $175 Regular Registration
Credits: 4.00 CEUs Lecture
Description: For the dental health care professional interested in learning more about periodontal disease and looking for exciting new material and sure ways to present, treat and manage it. It’s hard to believe that
periodontal infections can create so much trouble in the body. Come find out the how and the why. The physiology of infections isn’t that complex. The hygienist with an eye towards health is invited to this exciting scientific program.

**Educational Objectives:** Upon completion of the course, participants should be able to:
- Describe new and better disease detection methods.
- Manage the infection using blood markers.
- Communicate with patients more effectively.
- Discuss treatment options you’ve only read about.

**Hands-On Dental Radiation Safety and Technique**

**Presenters:** Amelia Nelson-Cosby; Lynn M. Legg, BS, MBA  
**Audience:** Dental Assistants  
**Format:** Lecture, Question & Answer Session, Skill Demonstration, Mentor/Coaching  
**Cost:** $329 Early Registration; $345 Regular Registration – includes materials and lunch  
**Credits:** 4.00 CEUs Lecture; 2.00 CEUs Participation  
**Required Prerequisite:** Attendee has successfully completed a dental radiation safety course.

**Description:** This course is a two-part course that covers Periapical and Panoramic Training. The Periapical Training includes both theory and hands-on experience in the placement, exposure, and critique of digital bitewing and periapical radiographs. The Panoramic Training is a hands-on includes the theory of panoramic imagining, hands-on positioning of the patient and determination of diagnostic image quality including identification of positioning errors.

**Educational Objectives:** Upon completion of the course, participants should be able to:
- Place charged phosphor plates using XCP instruments to expose bitewing and periapical radiographs.
- Determine the diagnostic quality of images.
- Orient bitewing and periapical radiographs.
- Determine when retakes are necessary.
- Describe how panoramic images are formed and how improper positioning affects the image.
- Correctly position a patient for a panoramic exposure.

**Spanish for the Dental Professional – Part 2**

**Presenter:** Anita Nadal, MLA  
**Audience:** Open to All  
**Format:** Lecture, Skill Demonstration, Mentor/Coaching  
**Cost:** $109 Early Registration; $125 Regular Registration  
**Credits:** 2.00 CEUs Lecture; 1.00 CEUs Participation  
**Required Prerequisite:** Attendee has successfully completed Spanish for the Dental Professional – Part 1.

**Description:** This course is a continuation to Spanish for the Dental Professional – Part 1 and designed for the dental practitioner so they may interact and effectively treat Spanish-only speaking patients. Basic Spanish grammar, pronunciation, vocabulary and phrases used in a dental office will be briefly reviewed. Specific dental phrasing will be discussed. Additional exercises in dental procedures and equipment vocabulary will be practiced. Practical application/interactive role-play will occur in a clinical setting.

**Educational Objectives:** Upon completion of the course, participants should be able to:
- Learn and understand specific intermediate grammar and Spanish terminology commonly used in the dental office.
- Understand and converse in particular intermediate phrases with patients.
- Conduct a complete patient interaction in Spanish.
Reasons and Seasons for Soft Tissue Calcifications: Separating the Innocuous from Those which Can Kill

Presenter: Laurie C. Carter, DDS, PhD
Audience: Dentists
Format: Lecture, Question & Answer Session
Cost: $79 Early Registration; $95 Regular Registration
Credits: 1.50 CEUs Lecture

Description: Soft tissue calcification refers to pathologic mineralization of soft tissues which arises in a variety of unrelated disorders and degenerative processes. Soft tissue calcification occurs in certain cutaneous tumors, scars, metabolic and inflammatory conditions. Pathologic calcifications of the cervicofacial soft tissues are often detected on plain or panoramic radiographs. Some require no intervention, while others may have serious implications. Therefore, a precise diagnosis should be achieved in all cases to determine the need for further workup or surveillance.

Educational Objectives: Upon completion of the course, participants should be able to:
• Distinguish between dystrophic and metastatic mechanisms of calcification.
• Distinguish between lymph node calcification and sialoliths on the basis of clinical and radiographic findings.
• Understand the etiology and genesis of sialoliths.
• Understand the etiology, clinical manifestations and implications of tonsilloliths.
• Discuss the mechanism of formation and clinical significance of antroliths and rhinoliths.
• Distinguish between phleboliths and arterial calcifications on panoramic radiographs.
• Recognize the implication of the presence of phleboliths in the head and neck area.
• Recognize conditions in which arterial calcification can occur, distinguish between medial calcinosis and calcified atherosclerotic plaque.
• Describe the clinical presentation of Eagle syndrome and what produces this condition.
• Distinguish calcified atherosclerotic plaque from laryngeal cartilage calcification.
• Understand the mechanism of formation of the crystal-induced arthropathies and their significance in the chronic renal failure patient.
• Recognize the clinical manifestations of tumoral calcinosis and be aware of its radiographic appearance.
• Describe the clinical and radiographic features of osseous choristoma, calcified acne and miliary osteomas.
• Discuss the life cycle of Taenia solium and the evolution and manifestations of cysticercosis.
• Describe the difference between soft tissue calcifications in autoimmune disorders from those which occur in tumoral calcinosis.
• List the types of metastases which have osteoblastic potential.
• Describe the mechanism of soft tissue calcification adjacent to TMJ meniscal replacements.
• Describe the other miscellaneous causes of soft tissue calcification.

Instrumentation Trends: A hands-on experience with sharpen-free XP Technology

Presenter: Karen Siebert, RDH, BSDH, MA
Audience: Dental Hygienists
Format: Skill Demonstration, Question & Answer Session
Cost: $109 Early Registration; $125 Regular Registration
Credits: 3.00 CEUs Participation

Description: Are you looking for a hands-on learning experience? This course is designed to give you a chance to actively explore a new technology in hand instruments as well as review and strengthen understanding of basic and advanced instrumentation techniques and ergonomic principles. Technology has afforded dental hygiene practitioners options in hand instrumentation. This course will introduce and explore XP technology, sharpen-free instruments developed by American Eagle Instruments, Inc., the latest in metallurgic
advancement for hand instruments. This metallurgic advancement has created the only true sharpen-free instrument available. Participants will learn how and why this technology advances daily practice and periodontal treatment as well as try the modified scaling technique on typodonts.

**Educational Objectives:** Upon completion of the course, participants should be able to:
- Exhibit confidence in the basics of proper instrumentation and ergonomic principles.
- Understand the metallurgic properties of various instruments.
- Understand the principles and importance of instrument maintenance and sterilization.
- Understand the benefits of XP sharpen-free modified instrumentation techniques.
- Practice modified instrumentation techniques that optimize benefits of XP never-sharpen instruments.

**Fabrication of Provisional Crowns and Bridges**

**Presenter:** Lori Turner, CDA, BS  
**Audience:** Experienced Dental Assistants (not appropriate for inexperienced Dental Assistants, Hygienists or Office Staff)  
**Format:** Lecture, Skill Demonstration, Laboratory Session  
**Cost:** $169 Early Registration; $185 Regular Registration  
**Credits:** 2.0 CEUs Lecture; 2.0 CEUs Participation

**Description:** This course is designed to deliver didactic information and enhance practical skills related to fabricating functional and esthetic provisionals. Participants will be engaged in a case based lecture, followed by a hands-on simulation lab in which each individual will demonstrate the skills learned. The patient case is fictitious and is used to demonstrate a scenario in which multiple methods of provisional fabrication are employed. Material covered during the lecture will include single-unit provisional crowns (Acrylic and Bisacryl), relining polycarbonate crowns, and three-unit provisional bridges (including traditional and bullet-shaped pontics). Simulation lab activity will allow participants to make a single-unit provisional crown and a three-unit provisional bridge. Provisional crown cementation and cement removal will also be discussed during the lecture, and then demonstrated by participants in the lab activity. This is a condensed course and requires participants to be experienced dental assistants with sufficient training in impression taking, dental materials, and use of low speed handpieces (extraorally). Due to the hand skills and knowledgebase required, this course is not appropriate for inexperienced dental assistants, hygienists, or office staff.

**Educational Objectives:** Upon completion of the course, participants should be able to:
- Understand the theoretical knowledge required to fabricate a variety of provisional crowns and bridges.
- Develop mechanical skills necessary for fabricating provisionals (focus will be placed on safety and efficiency).
- Recognize the appropriate dental materials and instruments needed for various methods of provisional fabrication.
- Demonstrate skills by completing the following tasks: fabricate a single-unit provisional crown and a three-unit provisional bridge; cement provisionals with temporary cement and remove excess cement.