3D Imaging: The Path to the Future of Dentistry
Friday, September 8, 2017
Course Description:
3D imaging with cone beam computed tomography (CBCT) and other 3D modalities is the path to the future of dentistry for major improvements in radiographic diagnosis, treatment planning and digital dentistry. Ample research has shown that 2D imaging has reached the end of the road in terms of potential for improvements. CBCT technology has provided a low dose and relatively low cost means of providing 3D imaging of the maxillofacial region for dentistry and has the potential to become an essential component of a modern dental practice. This introductory course is designed to familiarize each participant with the fundamentals of cone beam computed tomography technology and its many applications to dentistry. Course faculty will present an overview of the CBCT anatomy of the maxillofacial region and overview clinical applications in implantology, endodontics, surgery, orthodontics, periodontology, and pathology with numerous case examples. A demonstration on use of the software for interpretation and integration with digital dentistry will be followed by a discussion on the role of an oral and maxillofacial radiologist as a partner in the future of dental practice.

Course Objectives:
At the completion of this course, participants should be able to:
1. Explain the basic technology of cone beam CT imaging and associated radiation risks.
2. Compare and contrast the various attributes of CBCT units in the market place.
3. Ask the right questions when considering a CBCT unit for private practice.
4. Recognize and describe the anatomy of the maxillofacial region as presented in CBCT images and correlate specific structures with their appearance in panoramic radiographs.
5. Demonstrate how to use the software to construct images of the maxillofacial region to use CBCT volumes for advances in digital dentistry.
6. Discuss the many applications of CBCT to dentistry.
7. Recognize the radiographic signs of abnormalities and disease in CBCT images of the maxillofacial region.
8. Appreciate the role of an oral and maxillofacial in the practice of modern dentistry.

Course Director: Dr. Don Tyndall
Speakers: Dr. Angela Broome, Mr. Brandon Johnson, Dr. André Mol, Dr. Enrique Platin

Location: UNC School of Dentistry
Registration Fee
DDS: $450; TEAM MEMBERS: $250

For more information and to register go to: https://www.dentistry.unc.edu/ce/cde