

MICHAEL B. LEE D.D.S.
Diplomate American Board of Oral and Maxillofacial Surgery

Introducing 3-D Dental Imaging



Treating you to the “Standard of Care”
is not our goal. Surpassing the
“Standard of Care” is.

Dental Surgery! Now less complicated.... with fewer complications!

Introducing 3-D Dental Imaging. Diagnostically superior to traditional 2-dimensional dental x-rays, 3-D Dental Imaging allows your dentist or dental specialist to more clearly visualize your dental problem and provide you with a more accurate diagnosis and treatment plan. 3-D Dental Imaging is safe, providing critical diagnostic information with minimal radiation exposure.

3-D Dental Imaging helps to minimize complications associated with dental surgery by identifying surrounding nerves, arteries and other anatomic structures such as sinuses and adjacent teeth. This “game changing” technology allows complete visualization of the dental anatomy to aid in treatment planning for impacted wisdom teeth, the placement of dental implants, the orthodontic repositioning of impacted canines and the removal of dental cysts and tumors. See the difference 3-D Dental Imaging can make in your dental treatment.

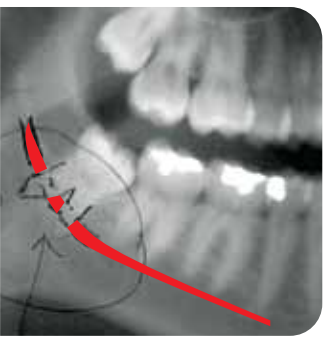


Figure 1

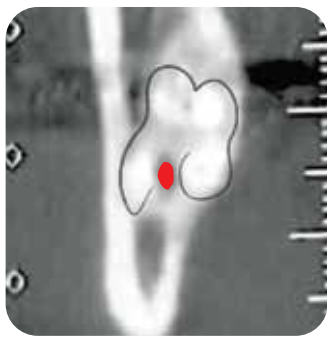


Figure 2

Impacted Wisdom Teeth

Unlike traditional two dimensional dental x-rays, 3-D Dental Imaging gives your surgeon the ability to see cross sectional images of your impacted wisdom teeth. With this information your dentist or oral surgeon can advise you on the benefits and risks of surgery. In many cases 3-D Dental Imaging can aid and facilitate your surgery by establishing the exact position of the wisdom tooth in relation to surrounding nerves, arteries and adjacent teeth.



Figure 1

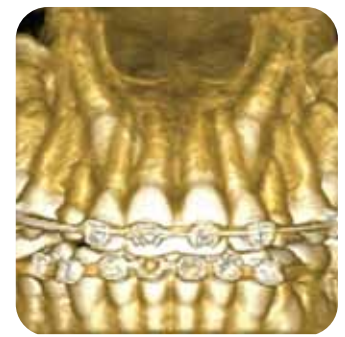


Figure 2

Impacted Canines

Many young patients require orthodontic treatment to move poorly positioned or embedded canine teeth. With traditional dental x-rays (Figure 1), the impacted canines can be seen but their exact position relative to the surrounding tooth roots can not be determined. By utilizing 3-D Dental Imaging, a 3-D model can be created (Figure 2). By identifying the position of the canines behind the incisors the surgery can be planned to minimize complications with the adjacent teeth.



Figure 1

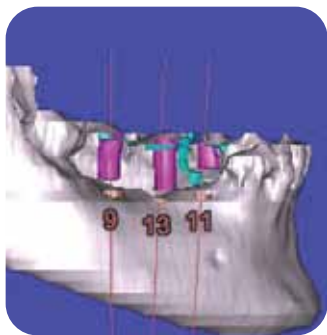


Figure 2

3-D Treatment Planning for Dental Implants

3-D Dental Imaging has revolutionized dental implant reconstruction. Not only is it now possible to accurately determine the amount of bone available for placement of dental implants as demonstrated in Figure 3, it is now possible to also determine the quality of the bone as well. Traditional dental x-rays as seen in Figure 1 can now be replaced by 3-D dental models as seen in Figure 2. These models can be rotated and viewed in all planes of space enhancing treatment planning and

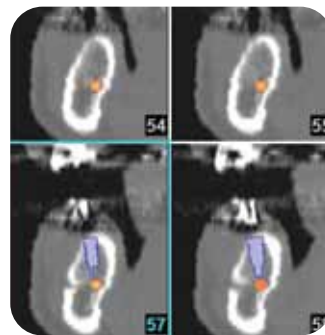


Figure 3

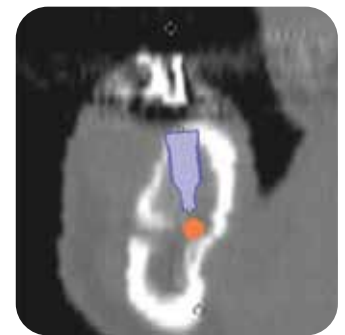


Figure 4

implant placement. Cross sectional imaging is demonstrated in Figure 3. This anatomically precise view allows for the exact placement of the dental implant without risk of damage to the nerve or the artery coursing through the surgical area. The close proximity of these important structures is demonstrated in Figure 4. Complicated dental implant cases just became less complicated.... with less complications thanks to 3-D Dental Imaging.

Benefits of 3-D Dental Imaging

Safe

3-D Dental Imaging produces high quality digital images at a fraction of the radiation from conventional medical C-T scans thanks to cone beam scanning technology. The radiation dose from a 3-D scan is less than the radiation received from a conventional “full series” of dental radiographs.

Convenient

The Cone Beam C-T scanner operates in an open environment similar to conventional panoramic dental x-ray machines. Scanning takes just seconds to accomplish. 3-D Dental Imaging is an office procedure, eliminating the need for a hospital visit. One 20 second scan provides a complete picture of the jaws, teeth and surrounding anatomy.

Cost Effective

3-D Dental Imaging is a cost effective diagnostic tool that allows your dentist or dental specialist to accurately diagnose and treat your dental condition. Three dimensional images are produced at a fraction of the cost of conventional medical C-T scans.

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About Dr. Lee

Dr. Lee is a Board Certified Oral and Maxillofacial Surgeon. He has practiced in Cincinnati since finishing his residency at the University of Cincinnati Medical Center in 1981. Prior to his residency he received a degree in Pharmacy and Pharmaceutical Sciences from Purdue University and his Doctor of Dental Surgery degree from the Indiana University School of Dentistry. He is active in local, state and national dental and oral surgery organizations and serves the Ohio State Dental Board as an oral surgery consultant. He is President of the Board of Trustees of The Children's Dental Care Foundation, is an oral surgery advisor to the Facial Foundation of Cincinnati and Editor-in-Chief of the Cincinnati Dental Society Bulletin. He lectures regularly on 3-D Dental Imaging.

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