CBCT

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- 7676655430
- ngoscans91@gmail.com

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CBCT

CBCT (Cone Beam Computed Tomography)

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CBCT(Cone Beam Computed Tomography) is a 3-dimensional digital scanner specially designed to capture the images teeth, jawbones, nerve pathways, sinuses, airway, and face. CBCT uses a cone-shaped beam that rotates around the patient head to capture a comprehensive volume of data in a single rotation. This data is then reconstructed by a computer to form a 3D image. It enables us to view much more information about these structures than conventional x-ray, which in turn helps clinicians to optimise diagnosis and treatment planning. Cone Beam CT is a very low risk modern procedure producing high quality images at very low levels of radiation.

Which CBCT Scanner used?

CS 9600:

We use CS9600 CBCT scanner from Carestream Dental LLP, USA. It features breakthrough innovations that enable us to scan our patients quickly, accurately and comfortably. The CS 9600 enables us to obtain crystal clear 2D and 3D images with minimal radiation exposure.

Superior Technology

This imaging system helps us properly position patients so that every scan captures exactly what we need. If a follow-up scan becomes necessary in the future, the system remembers the positioning parameters from the first time, resulting in a shorter overall appointment.

The system captures images very quickly, allowing our patients to experience a fast, smooth scanning process. In addition, the systemâ??s open design allows patients to sit or either stand during the scan, accommodating people of all sizes and physical disabilities. Because they are more comfortable during the scanning process, patients are less likely to move and cause blurring.

Enhanced Patient Care

We want to emphasize that we follow every precaution to minimize patient exposure to radiation whenever we obtain images for diagnosis and treatment. The CS 9600 addresses this issue and strictly adheres to the ALARA (as low as reasonably achievable) principle. The systemâ??s high-power generator allows us to acquire high-quality images at a lower dose to the patient than other imaging systems.

The system also allows us to target the exact area for exposure so that other tissues around the mouth will not be unnecessarily irradiatedâ??which is another way the system limits the patientâ??s radiation exposure.

Highly Detailed Images

The CS 9600 features one of the highest 2D and 3D image resolutions available, which provides us with an unprecedented level of anatomical insight and enables us to diagnose more confidently. The sharp, highly detailed and contrasted images provide patients with a unique view of their dental structures.

All these features and functions result in better information, safer scans and more informed diagnoses.

Advantages of 3D CBCT Scans Over Traditional 2D Imaging Techniques:

3D Visualization:

CBCT provides a three-dimensional view of oral and maxillofacial structures, enabling better understanding of anatomical relationships and spatial information, which is crucial for diagnosis and treatment planning.

Enhanced Accuracy:

It offers a higher degree of accuracy compared to traditional 2D radiographs, minimizing superimposition and distortion of structures.

Reduced Radiation Exposure:

CBCT generally involves a lower radiation dose compared to traditional medical CT scans, making it a safer option for patients.

Faster Scan Times:

CBCT scans are typically faster, reducing the time patients need to remain still during the imaging process, which can be particularly beneficial for patients with limited mobility or those prone to anxiety.

Improved Treatment Planning:

The detailed 3D images obtained from CBCT help in precise implant placement, orthodontic treatment planning, and assessment of impacted teeth.

Precise Measurements:

CBCT allows for accurate measurements of bone density, tooth position, and other critical anatomical landmarks, leading to more predictable treatment outcomes.

Versatile Applications:

CBCT is applicable in various dental specialties, including orthodontics, implantology, endodontics, and oral surgery, offering valuable diagnostic and treatment planning information.

Applications of 3D CBCT Scans in Dentistry

Implantology:

CBCT helps dentists assess bone quality and quantity, determine the optimal implant position, and avoid vital structures like nerves and sinuses, leading to more successful and predictable implant

placements.

Endodontics:

CBCT can identify periapical lesions, root canal anatomy, and fractures that might be missed on conventional radiographs, aiding in diagnosis and treatment of root canal infections.

Periodontics:

CBCT provides detailed 3D images of the hard and soft tissues, aiding in diagnosis and treatment planning. It is particularly useful for assessing bone loss, planning regenerative procedures, and placing dental implants in patients with periodontal disease.

Orthodontics:

CBCT provides precise measurements of tooth position, jaw relationship, and airway dimensions, facilitating accurate diagnosis and treatment planning for orthodontic cases.

Oral and Maxillofacial Surgery:

CBCT is used to evaluate facial trauma, jaw fractures, impacted teeth, bony lesions and guides the surgical procedures and improves the outcomes.

Oral Pathology:

Cone beam CT scans are used to evaluate cysts, tumors, or other abnormalities in the oral and maxillofacial regions.

Temporomandibular Joint (TMJ) Disorders:

CBCT allows for detailed imaging of the TMJ, aiding in the diagnosis and management of TMJ disorders.

Airway Analysis:

CBCT allows for detailed 3D visualization of the airway, enabling accurate measurements of its dimensions, volume, and identifying potential obstructions

Timings: Monday â?? Saturday 9:30 AM â?? 9:00 PM
Sunday: 9:30 AM â?? 1:00 PM

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Our Services

- CBCT
  - 2D Imaging

3D Imaging

Contact Us

#2230, C Block, D Group, Muddinapalya Main Road, Behind Hotel Ashwa, Gidadakonenahalli, Nagarbhavi, Bengaluru â?? 56009, Karnataka

7676655430

ngoscans91@gmail.com

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Author
karunakar679