



Cone Beam CT



CBCT is one of the more recent developments in dental imaging and it provides a 3D visualisation of the teeth, jaw, and mouth. It provides dental practitioners and other referrers a lot more information than traditional dental imaging, especially with surgical or orthodontic planning. CBCT is not the same as conventional CT (Computed Tomography), it has the advantage to produce high resolution images at a lower dose of radiation.

The CBCT machine is very compact compared to a traditional CT. The patient is asked to sit, the arm or gantry will rotate around the patient's head 360 degrees taking hundreds of images. The scan will take between 20-40 seconds to complete. you will not feel any pain during the examination and will be able to resume normal activities immediately. There is no specific preparation for the exam, however your dental specialist may ask you to remove any dentures or bridges or place in a temporary implant for the scan. You will need to remove any necklaces or facial jewellery including earrings and hair ties with any metal.

The CBCT images are reported by a specialist maxillofacial radiologist and your referrer will be provided with access to the images as well as the report.

Some of the common uses for CBCT include

- Surgical planning for impacted teeth.
- Diagnosing temporomandibular joint disorder (TMJ).
- Accurate placement of dental implants.
- Evaluation of the jaw, sinuses, nerve canals and nasal cavity.
- Detecting, measuring and treating jaw tumors.
- Determining bone structure and tooth orientation.
- Locating the origin of pain or pathology.
- Cephalometric analysis.
- Reconstructive surgery.
- Orthodontic planning.