

Maxillofacial Unit

Cone Beam CT (CBCT)

This leaflet aims to answer your questions about having a dental cone beam computerised tomography (CBCT) scan. It explains the benefits, risks and alternatives, as well as what you can expect when you come to hospital.

If you have any further questions, please speak to a doctor or nurse caring for you.

What is CBCT scan?

A CBCT scanner uses x-rays and a computer to produce 3D cross sectional images of the jaws and teeth. It is a compact, faster and safer version of the regular CT scanner. Through the use of a cone shaped x-ray beam, the size of the scanner, radiation dosage and time needed for scanning are all much reduced. The machine moves around your head in a circular motion in a similar way to the panoramic dental radiography unit, which is commonly used in dental surgeries and hospitals, which you may have already experienced.

What happens during a CBCT?

You will be seated in the CBCT machine. Your head will be carefully positioned, and you will be asked to keep still while the scan is taken. The positioning takes a few minutes, but each scan takes only a minute or so. You may need more than one scan depending on the reason for your examination. The whole procedure should not take more than 30 minutes.

Why should I have a dental CBCT?

The scan will give us detailed information which cannot be obtained from more conventional x-ray equipment. It produces images in 3D rather than 2D. This allows us to give you more information regarding any risks and to plan treatment to minimise this risk.

What are the risks?

CBCT scans are low dose examinations and give an x-ray dose to the patient that is considerably less than a medical CT scan.

A medical CT scan of the upper jaw gives a radiation dose equivalent to approximately 179-578 days of background radiation (the radiation constantly present in the environment). A CBCT scan of the whole jaw would be comparable to approximately 12-30 days of normal background radiation.

As with any x-ray examination, please inform the radiographer if you might be pregnant.

How can I prepare for dental CBCT?

Before your CBCT you will be asked to remove glasses, dentures, hearing aids, earrings, tongue studs, necklaces, hair clips and any other metal accessories that may affect the scan. This is not an examination that requires any injections or special preparations beforehand.

Giving my consent (permission)

This information leaflet is designed to help you to understand the examination and any associated benefits, risks and alternatives. If there is anything you don't understand or you need more time to think about it, please tell the staff caring for you. Remember, it is your decision to have a CBCT, If you change your mind at any time, please let staff know immediately. Your wishes will be always respected. If you would like to read our consent policy, please tell a member of staff.

Will I feel any pain?

This procedure is not painful, but you will need to remain still for the duration of the scan. If you are claustrophobic, please mention this to the radiographer so that they can offer you appropriate support and advice.

Where do I go for my CBCT scan?

Currently, the Huddersfield and Calderdale NHS Foundation Trust does not have a CBCT scanner. We are however able to send you to Leeds Dental Institute (LDI) to have the scan carried out. Once the CBCT scan is done, the images will then be sent to us ready for your next appointment.

The LDI will get in touch with you to organise your scan. If you do not respond, then you will be discharged from their system and the scan will not go ahead.

What happens after I have had the CBCT scan?

After the examination you will be able to go home straight away. The CBCT will be reported by one of the consultants in Leeds and this report along with the images will be sent to us so we can plan your treatment accordingly.

What do I need to do after I go home?

No special aftercare is necessary; you will be able to eat and drink and carry on all your normal activities.

Will I have a follow-up appointment?

Yes, soon after your appointment at Leeds we will see you to discuss the results and your treatment.

This leaflet is specific to the practice of Oral and Maxillo-Facial Surgery in the United Kingdom and is in addition to the generic guidance given in the GMC publications of Good Medical and Surgical Practice 2001 & 2002.

If you have any comments about this leaflet or the service you have received you can contact :

Maxillofacial Unit
Huddersfield Royal Infirmary
Telephone (01484) 355737

www.cht.nhs.uk

If you would like this information in another format or language contact the above.

Potřebujete-li tyto informace v jiném formátu nebo jazyce,
obraťte se prosím na výše uvedené oddělení

Jeżeli są Państwo zainteresowani otrzymaniem tych
informacji w innym formacie lub wersji językowej,
prosimy skontaktować się z nami, korzystając z ww.
danych kontaktowych

ਬ ਤੁਸੀਂ ਇਹ ਜਾਣਕਾਰੀ ਕਿਸੇ ਹੋਰ ਪ੍ਰਾਚੂਰ ਜਾਂ ਭਾਸ਼ਾ ਵਿੱਚ ਲੈਣਾ ਚਾਹੁੰਦੇ ਹੋ,
ਤਾਂ ਕਿਰਪਾ ਕਰਕੇ ਉਪਰੋਕਤ ਵਿਭਾਗ ਵਿੱਚ ਸਾਡੇ ਨਾਲ ਸੰਪਰਕ ਕਰੋ।

اگر آپ کو یہ معلومات کسی اور فارمیٹ یا زبان میں درکار ہوں، تو
برائے مہربانی مندرجہ بالا شعبے میں ہم سے رابطہ کریں۔

"إذا احتجت الحصول على هذه المعلومة بشكل مغاير أو مترجمة إلى لغة مختلفة فيرجى منك الاتصال بالقسم
المذكور أعلاه"