

Dental radiology (child patients)

Information for patients, parents and carers

This sheet aims to provide you and the child you are caring for with information about their dental radiography (X-ray) examination. If you have any other questions or concerns, please do not hesitate to speak to the team caring for them.

Confirming the child's identity

Before they have a treatment or procedure, our staff will ask you the child's name and date of birth and check their ID band. If they do not have an ID band we will also ask you to confirm their address. If we do not ask these questions, then please ask us to check. Ensuring their safety is our primary concern.



Why do I need an X-ray?

Hello. I am Dr X. Ray.

I would like you to have an X-ray because it is the best way for me to see inside your body and discover how to make you better. Lots of problems can be seen from outside the body, but not bones or organs.

What are X-rays?

X-rays are a type of radiation (radi-a-tion). This means waves of energy that move, just like the sun rays that let us see things.

Because they have more energy they can pass through things that sunlight cannot – like our bodies.

Different parts of the body stop different amounts of X-rays. The darker an area on the picture is, the more X-rays have reached it. Bones are able to stop lots of X-rays so they show up white. The different shades help to make a picture of inside your body.

The X-ray machine makes the X-rays, which will be directed through your body. A special detector will collect them on the other side to make the picture.



Natural radiation?

X-rays give your body a small radiation dose. We get a small amount of radiation every day from nature – this is called background radiation. Here are some of the ways we are exposed to radiation:

- Cosmic radiation comes from space, but most are absorbed in the Earth's atmosphere (at-mos-phere). You get a tiny bit more radiation from cosmic rays when you fly because the atmosphere is thinner. A flight to America gives a similar radiation dose to 6 chest X-rays.
- Many parts of the Earth are naturally radioactive (radi-o-active) (which means they produce radiation). Some rocks contain a radioactive material called uranium (u-ran-ium). Parts of the country, like Cornwall, have more rocks like this so people who live there get a bigger background radiation dose.
- Bananas are a source of potassium (po-tass-ium) which naturally has a tiny amount of radiation, however potassium is an important part of a balanced diet.

What will happen during my X-ray?

When you go into the X-ray room you will meet the radiographer (radi-ogra-pher) (a person who takes X-ray photos). They will look after you and will explain what the X-ray is for and what they will do.

If only a few teeth need to be X-rayed, you will be asked to hold an object in your mouth, which contains a special sheet that detects the X-rays. An X-ray machine will be pointed at this area

so the radiographer can take a quick picture. There will be a short beep while the picture is taken and then it is all done.

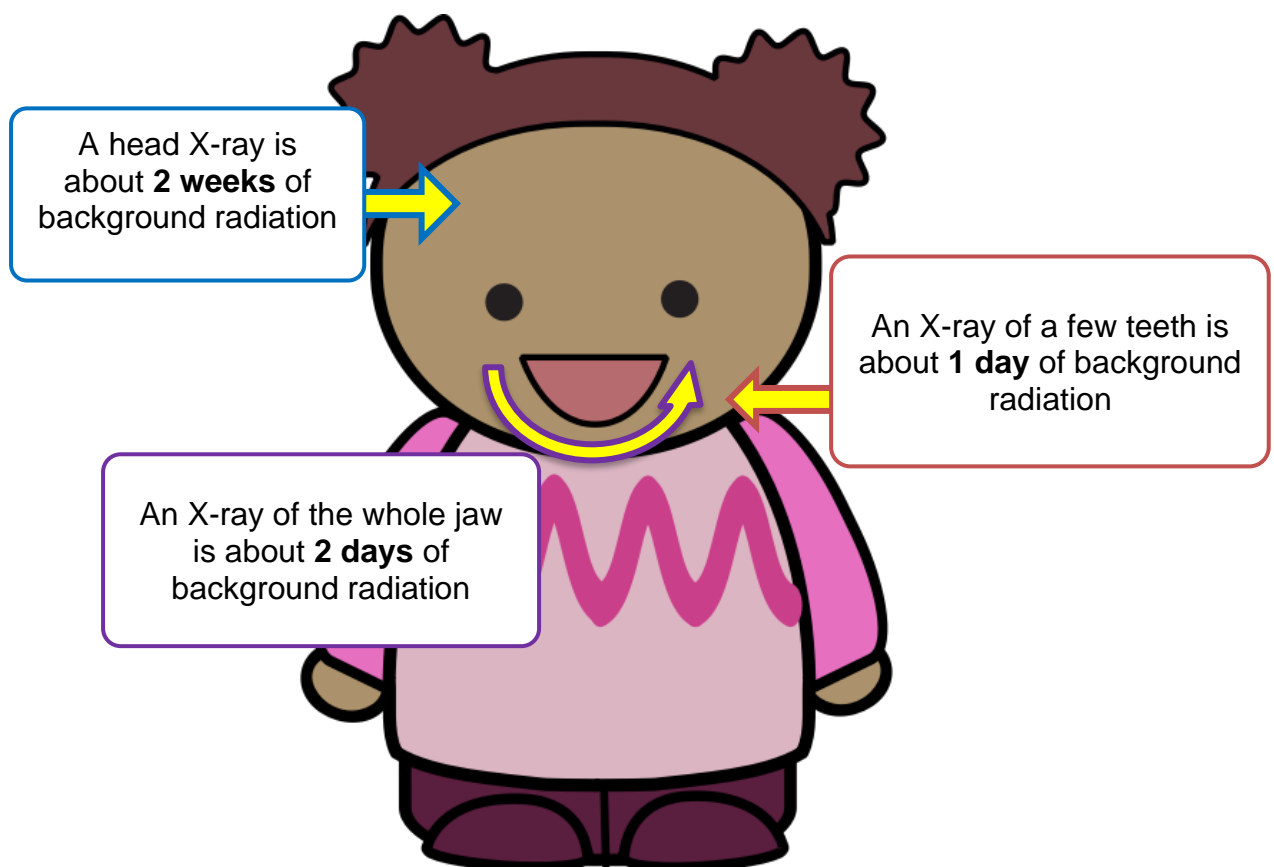
If a larger area needs to be X-rayed, you will be asked to rest your head against a special X-ray machine. X-rays will pass through your head on to a detector on the other side. The machine sometimes moves around your head in a circle while sending the X-rays. This is done to get a more of your head in one picture, such as in panoramic (pan-o-ram-ic) X-ray images, which are pictures of the whole mouth.

Once you are in position and it's time to take the picture, the radiographer will ask you to stay as still as you can. This is so the picture is not blurry.

There will be a noise while the picture is being taken and then it is all done. You won't feel anything, and it only takes a few seconds.

When all the pictures are taken, they will be sent to your dentist or doctor. The dentist or doctor will then tell you what to do next.

How much background radiation is similar to my X-ray?



We hope you have learnt a bit more about the X-ray you will be having. See if you can find the X-ray words below.

D	R	I	A	A	E	N	R	E	E	C	D	G	N
X	C	C	C	I	M	A	R	O	N	A	P	E	P
B	E	R	K	P	A	E	O	A	R	R	M	S	R
S	N	N	O	I	T	A	I	D	A	R	I	M	A
I	E	A	A	M	R	O	Y	T	G	S	D	U	D
N	R	A	V	A	E	H	S	D	E	I	E	I	I
S	G	X	R	A	Y	E	P	O	Y	O	T	S	O
E	Y	D	E	H	N	P	X	S	T	I	E	S	A
Y	D	I	E	O	I	I	C	E	E	R	C	A	C
E	E	R	B	H	T	E	E	T	E	I	T	T	T
D	N	U	O	R	G	K	C	A	B	S	O	O	I
T	S	I	T	N	E	D	T	M	I	A	R	P	V
E	P	C	T	E	A	V	O	T	O	D	O	I	E
S	Y	A	T	C	O	S	M	I	C	R	A	Y	T

Background
Bones
Cosmic ray
Dentist
Detector
Dose
Energy
Panoramic
Potassium
Radiation
Radioactive
Teeth
X-ray

For more information, please visit

- [Patient dose information: guidance \(www.gov.uk\)](http://www.gov.uk)
- [X-ray \(www.nhs.uk\)](http://www.nhs.uk)
- [Paediatric dentistry \(www.kch.nhs.uk\)](http://www.kch.nhs.uk)
- [Medical radiation: uses, dose measurements and safety advice \(www.gov.uk\)](http://www.gov.uk)

Before the X-ray procedure

If the child has had a previous reaction to X-ray contrast injections, please let the radiographer know.

Useful contacts

If you have any further questions please ask a member of staff:

Orthodontics/Paediatric dentistry department (telephone): 020 3299 3055

Sharing your information

We have teamed up with Guy’s and St Thomas’ Hospitals in a partnership known as King’s Health Partners Academic Health Sciences Centre. We are working together to give our patients the best possible care, so you might find we invite you for appointments at Guy’s or St

Thomas'. To make sure everyone you meet always has the most up-to-date information about the child's health, we may share information about them between the hospitals.

Care provided by students

We provide clinical training where our students get practical experience by imaging patients. Please tell the child's doctor or nurse if you do not want students to be involved in the child's care. The child's imaging will not be affected by your decision.

PALS

The Patient Advice and Liaison Service (PALS) is a service that offers support, information and assistance to patients, relatives and visitors. They can also provide help and advice if you have a concern or complaint that staff have not been able to resolve for you. They can also pass on praise or thanks to our teams.

PALS at King's College Hospital, Denmark Hill, London SE5 9RS

Tel: 020 3299 3601

Email: kch-tr.palsdh@nhs.net

PALS at Princess Royal University Hospital, Farnborough Common, Orpington, Kent BR6 8ND

Tel: 01689 863252

Email: kch-tr.palspruh@nhs.net

If you would like the information in this leaflet in a different language or format, please contact our Communications and Interpreting telephone line on 020 3299 4826 or email kch-tr.accessibility@nhs.net