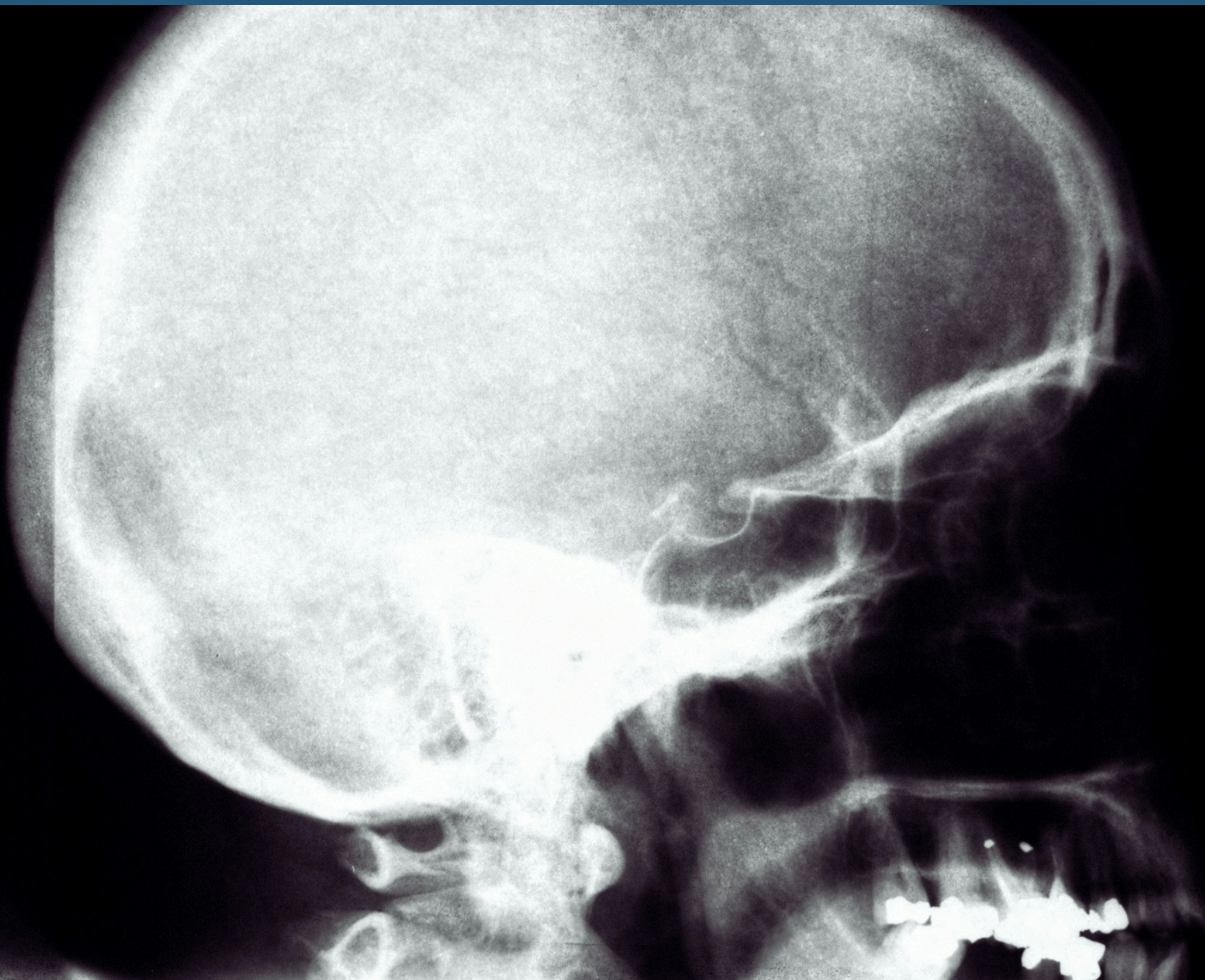


International Day of Radiology

8 November
2025

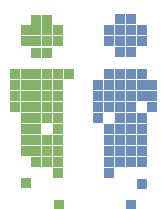


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What is an X-ray?

X-ray imaging uses a small dose of ionising radiation to create images of the inside of the body. Different tissues absorb X-rays to different degrees. A detector records the transmitted X-rays to form an image on a screen or film.

What is an X-ray?



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What is an X-ray used for?

- **Detects bone fractures and joint dislocations.**
- **Evaluates lungs for infection and heart size.**
- **Supports dental examinations.**
- **Detects certain foreign bodies**

What is Computed Tomography (CT)?

Computed tomography uses a rotating X-ray source and detectors to acquire many projections around the body. A computer reconstructs these into cross-sectional images that can also be viewed as a three-dimensional volume.

What is Computed Tomography (CT)?



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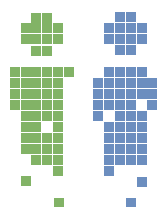
What is a CT used for?

- **Detailed imaging of organs, bones, and blood vessels.**
- **Rapid assessment in emergencies such as trauma, stroke, and internal bleeding.**
- **Detecting cancers and monitoring treatment response.**

What is Magnetic Resonance Imaging (MRI)?

MRI uses a strong magnetic field and radio waves to generate detailed images of soft tissues. It does not use ionising radiation.

What is Magnetic Resonance Imaging (MRI)?



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What is an MRI used for?

- **Imaging of the brain, spinal cord, and nerves.**
- **Assessment of muscles, joints, and soft tissues such as ligaments and cartilage.**
- **Detection and characterisation of tumours, especially in the brain, liver, and pelvis.**

What is an Ultrasound?

Ultrasound uses high-frequency sound waves to visualise soft tissues and organs in real time. It does not use ionising radiation.

What is an Ultrasound?



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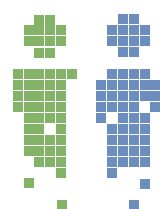
What is an Ultrasound used for?

- **Monitoring pregnancy and foetal development.**
- **Evaluating organs such as the liver, kidneys, heart, and thyroid.**
- **Guiding biopsies and injections.**

What is Fluoroscopy?

Fluoroscopy uses continuous X-ray imaging to provide live guidance during procedures and to assess motion.

What is Fluoroscopy?



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What is Fluoroscopy used for?

- **Live imaging during procedures such as inserting catheters, stents, or feeding tubes.**
- **Evaluating swallowing and gastrointestinal movement.**
- **Image-guided pain management injections.**

What is Mammography?

**Mammography is
specialised low-dose
X-ray imaging of the
breast.**

What is Mammography?



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What is Mammography used for ?

- **Breast cancer screening and diagnostic evaluation.**
- **Assessing symptoms such as a new lump or nipple discharge.**