

Contrast medium experiment with a blood vessel model

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Principle

When a blood vessel model is irradiated with X-rays, the blood vessels themselves are not visible at first. It is only after the injection of a contrast medium that the blood vessels become visible.

Benefits

- Effective demonstration of how a contrast medium can be visualized with X-rays
- Excellent entry-level experiment for medical students

Tasks

1. Inject a 50% potassium iodide solution into the blood vessel model.
2. Observe the fluorescent screen of the X-ray basic unit to follow the course taken by the injected solution in the blood vessel model.

Learning objectives

- X-ray radiation
- Bremsstrahlung
- Characteristic radiation
- Law of absorption
- Mass absorption coefficient
- Contrast medium

Scope of delivery

XR 4.0 expert unit, 35 kV	09057-99	1
XR4 X-ray Plug-in Cu tube	09057-51	1
XR 4.0 X-ray imaging upgrade set	09155-88	1
Potassium iodide 50 g	30104-05	1