

## Imaging techniques (2)

*Tuesday, September 10, 2024 11:15 AM (1 hour)*

Medical imaging: from physical measurement to clinical diagnosis

In this course, we will review the principle and evolution of anatomical, functional and molecular imaging modalities used in clinical research. After recalling the major dates in the history of medical imaging, the various techniques will be described in terms of their physical principles of detection and the clinical information to which they give access (radiography and ion tomography, magnetic resonance imaging, ultrasound and nuclear imaging). The differences and complementarities of these methods will be highlighted and illustrated by various clinical examples. The main technological or conceptual developments likely to improve the performance of medical imaging will also be discussed.

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