

Faculty of Medicine



MNUC2100 Master and complementary master

[15h] 2 credits

Teacher(s): François Jamar, Thierry Vander Borgh
Language: French
Level: Second cycle

Aims

To illustrate the role of radioisotopic functional imaging in the diagnostic strategy. To apply the radioisotopic functional information to the understanding of pathophysiological mechanisms. To describe the importance of functional imaging in view of the available technology.

Main themes

Application of in vivo nuclear medicine in pathology: discussion of clinical problems with the help of radioisotopic exploration. Description of the principle of radioisotopic exploration and application to clinical questions. Description of the equipment and tracers used.

Content and teaching methods

1st part: GENERAL APPROACH (3 h)

- Physics.
- Radiochemistry and radiopharmacy.

2nd part: SPECIFIC SECTIONS (12 h)

- Cardiac investigations.
- Lung investigations.
- Endocrine investigations.
- Neurological investigations.
- Gastroenterological investigations.
- Oncology/Haematology investigations.
- Uro-nephrological investigations.
- Bone investigations.

Other information (prerequisite, evaluation (assessment methods), course materials recommended readings, ...)

Prerequisite: none.

Evaluation: written (open questions + MCQ)

Supporting materials: none (sources available)

Programmes in which this activity is taught

ESP3DS/R	Diplôme d'études spécialisées en santé publique (radioprotection, experts pour établissements de classe 1)
FARM3DS/HO	Diplôme d'études spécialisées en sciences pharmaceutiques (pharmacie d'hôpital)
RPR9CE	Certificat universitaire en radioprotection et en application des rayonnements ionisants

Other credits in programs

ESP31DS/RP	Première année du diplôme d'études spécialisées en santé publique (Physique d'hôpital)	Mandatory
FARM3DS/HO	Diplôme d'études spécialisées en sciences pharmaceutiques (2 credits) (pharmacie d'hôpital)	Mandatory
RPR9CE/R	Certificat universitaire en radioprotection et en application des rayonnements ionisants (Radiopharmacie)	Mandatory