

# NUCLEAR MEDICINE (PHASE 5)

## LEARNING AIM(S)

<b>1</b>	In this course, it is aimed that the students have information about the diagnostic nuclear medicine methods and treatment applications, with or without visualization, applied in the diagnosis and treatment of diseases within the scope of the National CEP, and to benefit from these in the preliminary diagnosis of clinical pathologies common in our society.
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## LEARNING OBJECTIVE(S)

<b>1</b>	To be able to explain the physics of radiation and the use of radioactive materials in medicine.
<b>2</b>	To be able to explain the working principles of imaging systems and be able to make practical applications.
<b>3</b>	To be able to explain the biological effects of radiation and protection from radiation.
<b>4</b>	To be able to explain the conscious use of radioionizing sources in terms of patient and employee safety.
<b>5</b>	To be able to explain and practice nuclear medicine applications in cardiovascular system, central nervous system, respiratory system, gastrointestinal system, urinary system, endocrine system diseases.
<b>6</b>	To be able to explain and practice nuclear medicine applications used in oncology and infectious diseases.
<b>7</b>	To be able to explain the use of radioactive materials in treatment.

## INTENDED LEARNING OUTCOME(S)

<b>1</b>	Can explain the physics of radiation and the use of radioactive materials in medicine.
<b>2</b>	Can explain the working principles of imaging systems and be able to make practical applications.

3	Can explain the biological effects of radiation and protection from radiation.
4	Can explain the conscious use of radioionizing sources in terms of patient and employee safety.
5	Can explain and practice nuclear medicine applications in cardiovascular system, central nervous system, respiratory system, gastrointestinal system, urinary system, endocrine system diseases.
6	Can explain and practice nuclear medicine applications used in oncology and infectious diseases.
7	Can explain the use of radioactive materials in treatment.

