

IAEA/ESNM Webinar Series on basic NM

The (Patho)physiology of Bone Turnover

Target audience

Nuclear medicine physicians and affiliated scientists with an interest in bone disease.

Description

The skeleton is one of the largest organs of the human body, and within nuclear medicine bone scintigraphy is an important part of routine practice. Therefore it is essential for the practicing nuclear medicine physician to have a good understanding of the physiological mechanisms within skeletal structures.

This webinar provides an overview of the cells, regulators, and processes occurring within bone enabling its major functions. In particular, bone formation, modelling and remodelling, and fracture healing are addressed. A number of bone diseases are frequently encountered in daily clinical nuclear medicine, including infection, inflammation, osteoporosis and malignancy. The pathophysiological mechanisms, including cell biology, and the role of the immune system and key local mediators in these diseases are reviewed.