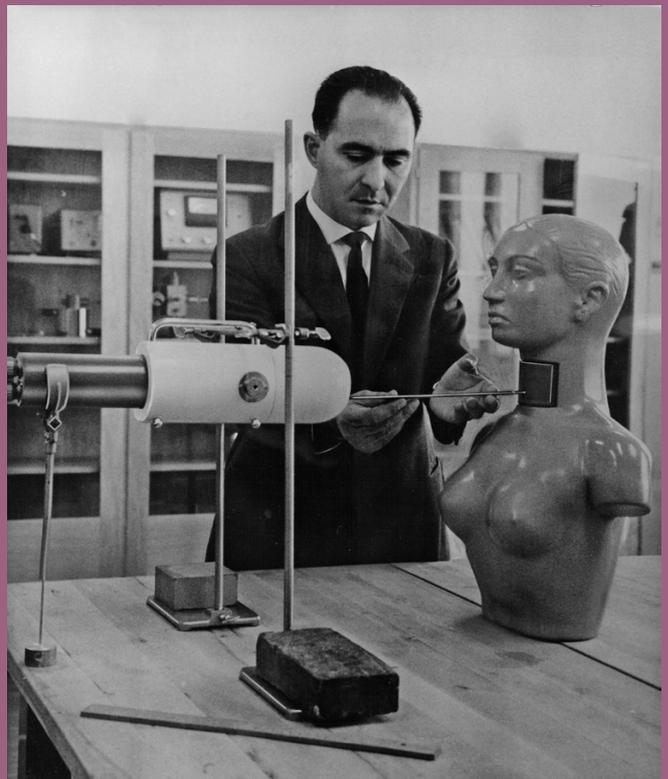


HUMAN HEALTH

The use of nuclear techniques in medicine and nutrition has become one of the most widespread peaceful applications. Nuclear techniques have a significant role to play in the diagnosis and treatment of health conditions, in particular non-communicable diseases, such as cancer and cardiovascular diseases. The IAEA assists Member States in building capacities for the establishment and implementation of high quality comprehensive national cancer control programmes. Nuclear techniques also help monitor and address all forms of malnutrition, from undernutrition to obesity.



A manikin bust, constructed at the IAEA in 1961, demonstrates the accurate measurement of radioiodine uptake by the thyroid gland, which controls the body's metabolism.

Photo: IAEA



Stable isotope techniques can help determine whether children receive and utilize the right balance of nutrients in their diet. An IAEA research project in Ecuador evaluated the nutritional status of school children in 2012.

Photo: E. Aguilar Lema, Ecuador

HUM



Nuclear medicine specialists from Latin America evaluating whole body images produced by single photon emission computed tomography scanners after administering a radiopharmaceutical to a patient in 2014.

Photo: IAEA



A Sri Lankan expert, trained at the IAEA laboratories in Seibersdorf, Austria, checking the iodine-131 dose to be given to thyroid cancer patients at the Nuclear Medicine Unit in Peradeniya, Sri Lanka, in 2015.

Photo: IAEA

Demonstration of a patient set up for radiotherapy at the Vienna General Hospital in 2016. The IAEA promotes access to radiation therapy and its safe use.

Photo: IAEA



IAN HEALTH

The IAEA Programme of Action for Cancer Therapy supports low and middle income countries in the implementation of comprehensive national cancer control programmes.

Photo: IAEA

