

Selected achievements

2023: The new linear accelerator in Tripoli University Hospital is installed in October, enabling patients with cancer to be treated.

2012: The first national cyclotron is installed at Tripoli Medical Centre.



A linear accelerator was installed at Tripoli University Hospital with IAEA support, enabling more effective treatment for patients with cancer. (Photo: F. Walugembe/IAEA)

National priorities

- Health and nutrition
- Food and agriculture
- Water resources management
- Environmental protection
- Research reactor safety and utilization
- Energy and industry
- Radiation safety and regulatory infrastructure

Main areas of IAEA support

- Radiation medicine
- Water resources management
- Radiation safety
- Pest management

Project successes

Radiation oncology in cancer management

The IAEA has been supporting Libya in strengthening its national cancer control programme by focusing on enhanced early detection and treatment care to improve the survival and quality of life of cancer patients. This has included upgrading existing cancer care facilities and building expertise in radiotherapy and nuclear medicine.

By the end of 2023, with the support of the IAEA, the capacities for delivering 3-dimensional conformal radiation therapy (3D-CRT) for centres in Benghazi, Misrata, Sabratha and Tripoli were enhanced, with some working towards introducing more advanced treatment techniques such as Intensity-Modulated Radiation Therapy (IMRT) and Volumetric-Modulated Arc Therapy (VMAT).

Further assistance was provided to Radiation Oncologists, Medical Physicists and Radiotherapy Technologists through fellowships and training courses to enhance their knowledge and skills in utilizing these advanced technologies.

Governmental and regulatory infrastructure for radiation safety

With IAEA support in the form of technical assistance and capacity building, Libya has strengthened its regulatory system for the control of radioactive sources and related activities and facilities.

The national register for radiation sources and nuclear materials was upgraded with the adoption of the Regulatory Authority Information System (RAIS) provided by the IAEA. Additionally, a state accounting system for managing nuclear materials was developed and implemented.

The IAEA also assisted in drafting radiation safety regulations and reviewing the draft of the Libyan Nuclear Law.

Participation in the major initiatives

- Rays of Hope
- ZODIAC

IAEA support received in the 21st century



Contributions to South-South and triangular cooperation

