

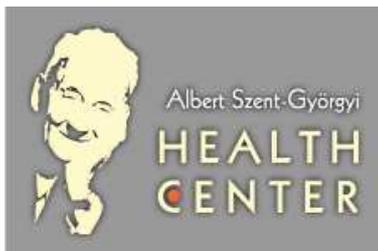
- Institution's name

Department of Oncotherapy, Faculty of Medicine, University of Szeged, Szeged, Hungary

- Website

<http://www.klinikaikozpont.u-szeged.hu/onko/en/>

- Institution's picture and logo



- Description of the institution

The history of the department goes back to 1980, when the Division of Radiotherapy was developed within the Department of Radiology. The Department of Oncotherapy was founded in 1994 by the unification of the Divisions of Radiotherapy and the Division of Gynecooncology.

At present, the Department of Oncotherapy is one of the 5 regional oncotherapy centers in Hungary, with full coverage of approved and reimbursed chemo- and radiotherapy protocols. It has 3 divisions with 73 beds and 30 ambulatory treatment chairs for chemotherapy, and covers approximately 1,350,000 people as patient population. 3000 new patients were treated in 2013, and the overall patient number for appointments or follow-up examinations was more than 13.000 in that year.

The Department of Oncotherapy is also responsible for graduate and postgraduate education, which are performed in both Hungarian and English languages. As a university clinic, we are deeply involved in research and active in scientific publication.

- Description of the RO department

Radiation treatment is performed exclusively with individual personalized plans and patient positioning and fixation for each patient using 3 dimensional conformal techniques. Further technical developments in 2015 will provide the possibility to perform stereotactic and IGRT, as well as and further extend IMRT treatments.

- Areas of specialization

The network of breast centers (SenoNetwork) is the first international network of clinical centres exclusively dedicated to the diagnosis and treatment of breast cancer. It is a project of [ESO](#) (European School of Oncology) with the aim to promote and improve breast cancer care in Europe and throughout the world. Our Breast Unit was founded in 1999 based on the integration of teams of different departments that managed breast diseases. The Unit performs more than 250 breast cancer surgeries per year applying isotope-guided (ROLL) or rarely wire-guided excision of non-palpable tumours, sentinel lymph node biopsy with isotope and blue dye labelling, primary or delayed prosthesis implantation with the co-operation of a trained plastic surgeon. Medical treatments and radiotherapy are performed according to local protocols based on international guidelines or alternatively, in clinical studies. Different research fields are active, both as a multidisciplinary programs, and at the specific institutes. Graduate and post-graduate educational programs are ongoing. The biennial Szeged Breast Cancer Symposium is organized by the Breast Center, next time in September, 2015. International and national cooperations are active in all fields.

- Ongoing projects/studies/clinical trials

The staff at the Department of Oncotherapy performs both basic and clinical investigations. As basic research, radiobiological experiments are run. Many of the patients of the department participate in clinical studies both in the fields of medical oncology and radiotherapy. Besides investigator-initiated clinical studies, multicenter international clinical studies are favored. Currently there are 32 phase II and III clinical studies in active and follow up phase in several indications.

Running projects 2015:

1. Project ID: TÁMOP-4.1.1.C-12/1/KONV-2012-0005

Project title: Preparation of the concerned sectors for educational and R&D activities related to the Hungarian ELI project

Aim of the project: The program's key technical objective is the familiarization of research methods and light sources connected to ELI-ALPS with to domestic researchers working on the field of natural sciences and not only contributes to ELI's scientific reinforcements, but to help the utilization of the unique research opportunities of ELI-ALPS. The main focus groups of the program are the followings:

1. Students of higher education -especially from physics, second related disciplines are chemistry, biology, medicine, mathematics, etc; Third any other student who is interested in this field
2. Academics and researchers - training teachers and researchers in the sector
3. Other staff members of higher education institutes

2. Project ID: VKSZ_12-1-2013-0012

Project title: Research of an intelligent and inclusive framework for Analytic Healthcare Quality User Information - AHQUI

Aim of the project: While in the 1990s the first wave of the Internet merely gave voice to consumers, the next wave, the Industrial Internet also provides analytical intelligence for machines, enabling intelligent decisions that predict and prevent problems by supplying the right information to the right person at the right time. With the development of Industrial Internet, physicians, specialists and healthcare workers in the sector can access crucial and structured information significantly faster enabling them to make the right decision and this way increase efficiency.

3. Project ID: TIOP-2.2.6-12/1A-2013-0003

Project title: Supporting the structural change by the development of the oncology centers

Project aim: Development of the quality of the equipments for radiotherapy and clinical dosimetry.



Nemzeti Fejlesztési Ügynökség
www.ujszechenyiterv.gov.hu
06 40 638 638



A projekt az Európai Unió támogatásával, az Európai Szociális Alap társfinanszírozásával valósul meg.

- In-house news (conferences, workshops, training opportunities, etc.)

The biennial Szeged Breast Cancer Symposium is organized by the Breast Center, next time in September, 2015. We are proud to announce that Prof. Laszlo Tabar, whose pioneering research has laid the foundation for early detection through modern mammographic screening, in this year also accepted our invitation to give a presentation about the new classification of breast cancers. Dr. Tabár is Professor emeritus of Radiology, University of Uppsala School of Medicine, Sweden, former Medical Director of the Department of Mammography, Falun Central Hospital, Sweden, and Consultant Radiologist for numerous Comprehensive Breast Centers in the United States. On the Szeged Breast Cancer Symposium, besides the scientific lectures, workshops and round table discussions, we organize a Forum for the local citizens about hot topics, like genetic predisposition to cancer, screening, and plastic surgery for breast reconstruction.

- Equipment used in the department

Since 2005, only conformal radiotherapy is practised. We have 3 linear accelerators with multileaf collimator (Primus, Siemens and Varian), a CT-simulator (Somatom Emotion 6) and appropriate dosimetry devices. 3D RTP systems are in use (XiO and Oncentra Masterplan). Since 2000, a Lantis dedicated record and verifying system supports the radiotherapy machines.