

- **Institution's name**

Dept. of Oncology and Radiotherapy, University Hospital, Hradec Kralove, Czech Republic

- **Institution's picture and logo**



- **Description of the institution**

University Hospital Hradec Králové is one of the largest facilities in the Czech Republic. It has 23 departments with 1500 beds. More than 40 000 inpatients and 500 000 outpatients are seen every year. The university hospital provides both pre- and postgraduate education.

- **Description of the RO department**

The department was established in 1945. It was the first radiotherapy unit using megavoltage source for external beam radiotherapy in the Czech Republic since 1958 and IMRT since 2003. The department currently provides both radiotherapy and medical oncology treatments. It has inpatient part with 64 beds, outpatient department, chemotherapy unit and radiotherapy unit. About 1400 new oncological patients are treated on a daily basis, 67% undergo radiotherapy. The institution is a member of the EORTC Radiation Oncology Group.

- **Areas of specialization**

IMRT, IGRT, interstitial brachytherapy, brain tumors, head and neck carcinomas, breast, gastric and esophageal tumors, prostate, gynecological tumors

- **Ongoing projects/studies/clinical trials**

IRTOC INTERTECC study

Prepared for participation in future EORTC studies:

EORTC Study 22111-26111: Whole brain radiotherapy with or without synchronous integrated boost in patients with 2 to 5 brain metastases. A randomized Phase III

22114-40111 TOP Gear: Trial of preoperative therapy for gastric and esophagogastric junction adenocarcinoma. A randomized phase II/III trial of preoperative chemoradiotherapy

A Phase III Trial of postoperative chemotherapy or no further treatment for patients with stage I - II medium or high risk endometrial cancer

Local studies: Evaluation of TGFB1 in prediction of late toxicity of chemo-radiotherapy for cervical cancer, perioperative brachytherapy in APBR, oral cavity HDR brachytherapy, preoperative IMRT chemo-radiotherapy for gastric and esophagogastric junction cancer

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

Department organizes national conference in radiation oncology, education in radiation oncology for postgraduate students

- **Equipment used in the department**

2 Varian linear accelerator (IMRT and IGRT option), Gammamed afterloading machine, CT simulator, hyperthermia and access to MR and PET.