

This bachelor's thesis „The Role of the Radiological Assistant in the Radiotherapy of Prostate Cancer“ deals with a malignant disease of prostate which represents the most common type of cancer of adult men.

In preface of my work, I concentrate on anatomy and function of prostate, epidemiology, disease symptoms and I so describe the way of diagnosis (PSA, DRE, TRUS, biopsy, radioisotopic scintigraphy, CT, MR and cystoscopy) here.

The extent of tumour (staging) and clinical stage of disease (TNM classification, level of tumour differentiation) are very important at prostate cancer too. In realm of the curative strategy, I write about the surgical treatment, the possibility of radiotherapy, and about the hormonal treatment and the chemotherapy in the end.

Especially I want to remark a daily working content of the radiological assistant at workplace of the radiological oncology (localization, planning CT examination, contouring, radiotherapy plan simulation, daily patient positioning and irradiation on linear accelerator) and equipment needed to radiation therapy (simulator, planning CT scanner, linear accelerator).

In the end of my work I concentrate on the prognosis of prostate carcinoma and why it is important to do the preventive examination (screening) of this disease.

The Faculty Library, Hospital Motol and Bulovka and the Internet provided me information.

I think the elected theme of my bachelor's work is very actual because of these fastmoving times and the unhealthy way of life.