

Department of Urology

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General Summary

We performed research in the following areas: urologic oncology, urinary tract infection and sexual transmitted diseases, urodynamics and erectile dysfunction, the kidney and adrenal gland, endourology, and extracorporeal shockwave lithotripsy.

Research Activities

Urologic oncology

1. Basic research: We performed several research projects to clarify the biology of urological malignancies and develop new therapeutic tools. Results were reported at the annual meetings of the Japanese Urological Association and the American Urological Association. The projects were as follows.

1) Proteomic analysis of new biomarkers for prostate cancer and urothelial cancer
2) Establishment and biological analysis of our new prostate cancer model, named JDCaP, derived from a Japanese patient

3) Research in neurourology and female urology

2. Clinical research: Several clinical studies are in progress in our department. Some works have already been reported at the annual meeting of the Japanese Urological Association.

1) Study of seeds and hormones for intermediate-risk prostate cancer, a phase III, multicenter, randomized, controlled trial

2) Clinical study of high dose rate brachytherapy with external beam radiation therapy for high-risk prostate cancer

3) Study of deep venous thrombosis after urological surgery

4) Study of the incidence of latent prostate cancer

5) Clinical study of preoperative image evaluation for patients undergoing radical prostatectomy

6) Clinical study of nomograms for predicting unilateral pathological T3 prostate cancer

7) Clinical study of 3-dimensional image construction of positive surgical margins in patients with prostate cancer

8) Clinical study of extended radical lymphadenectomy in patients with urological cancer

Publications

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- Furuta A, Suzuki Y, Honde M, Koike Y, Naruoka T, Asano K, Chancellor M, Egawa S, Yoshimura N.** Time-dependent changes in bladder function and plantar sensitivity in a rat model of fibromyalgia syndrome induced by hydrochloric acid injection into the gluteus. *BJU Int.* 2011; **109**: 306-10.