RAYPILOT®

INTRODUCTION

Prostate cancer treatment with Raypilot® System

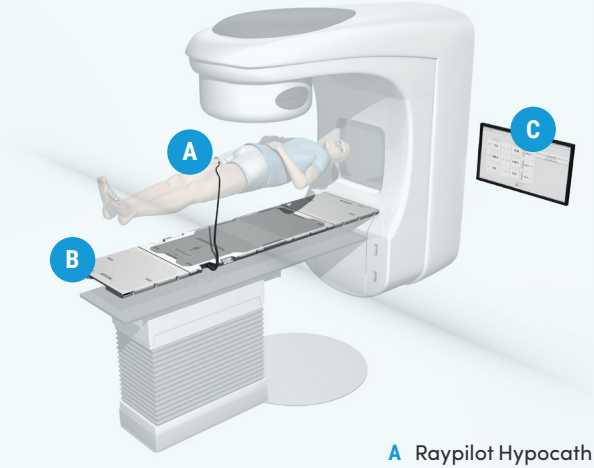
MICROPOS MEDICAL

THE RAYPILOT® SYSTEM

The system in short

Raypilot is a system for real-time tumor tracking during radiation treatment of prostate cancer. The system lets physicians track any movement of the prostate during the radiation session. If the system detects prostate movements, the physician gets notified immediately to be able to adjust the patient. This leads to a precise treatment and minimizes the risk of damaging surrounding healthy tissue. It also enables higher dosage per treatment and a reduced number of treatment sessions.

- **Helps physicians to focus the radiation to the organ**
- **Reduces risk of damage to surrounding tissue**
- **Enables fewer treatment sessions, in a safe manner**



A Raypilot Hypocath
B Raypilot Receiver
C Raypilot Software

STEP BY STEP

The treatment process

Before

Before the treatment can begin, the physicist needs to create a plan for the treatment. The plan is based on CT-images of the prostate and its surrounding environment. The physicist needs to see the exact position of the prostate in relation to other organs and risk organs to design the plan.

When taking the images the Raypilot Viewcath catheter is inserted to simulate the conditions of the upcoming treatment. As soon as the CT-images are ready, the Raypilot Viewcath catheter is removed.

During

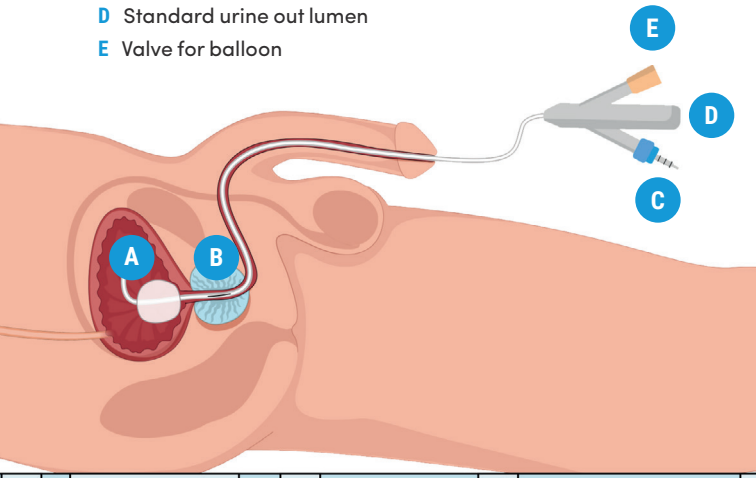
When the first treatment is about to start the Raypilot Hypocath catheter is inserted. It is removed after the last session is completed.

Before each session the bladder is emptied, then filled with a predefined amount of liquid. This is done to recreate and control the bladder filling for a reproducible patient setup.

The patient is then placed on the linac couch. A CT- image is generated to match the current tumor position with the plan. The real time monitoring of the prostate is initiated during setup and is active throughout the session. The user is alerted if the prostate moves outside of the defined tolerances in order to be able to stop the beam and reposition the patient.

Raypilot® Hypocath®

- **A** Balloon in bladder
- **B** The transmitter in Raypilot Hypocath
- **C** Connector
- **D** Standard urine out lumen
- **E** Valve for balloon



After

After the last treatment session is completed the patient is ready for his individual follow-up with his physician.

I have not had any side effects. In fact, my way of life hasn't changed at all (compared to before the treatment). I still play tennis three times a week. I sleep well at night. I have no noteworthy issues to mention during the day. I'm fine.

Mr. Cattaneo Giorgio, patient treated at San Gerardo Hospital in Monza, Italy

LEARN MORE

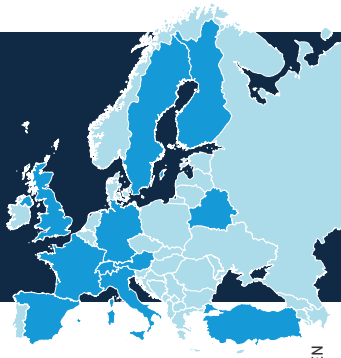
Do you want more information?

Radiotherapy is all about administrating the right dose to the tumor while avoiding damage to the surrounding healthy tissue. Prostate motion is unpredictable and random in time, directions, and lengths. The Raypilot system is designed to track prostate motion in real time, even during the treatment, to focus the beam and minimize damage.

Scan the QR-code with the camera on your phone and get access to more information

Clinics using Raypilot

Treatment with Raypilot is available at a growing number of clinics in the EU.



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