

## Press release

About 3000 visitors at the European Society for Radiotherapy and Oncology (ESTRO)

### ESTRO 2016 in Turin: RPS is presented to the expert public

**The Radiotherapy Patient System RPS from the German company gKteso located in Bobingen was presented at the 35th ESTRO in late April to around 3,000 expert visitors to Turin from around the world. In addition to numerous workshops and lectures about radiotherapy and oncology, ESTRO provides the opportunity for selected manufacturers to present their innovations. Interest in the Radiotherapy Patient system was great: the possibilities of the automatic treatment couch which can be moved in 6 dimensions sets new standards for radiation treatment.**

As if moved by magic, the water glass filled up to the top slides over several meters through the convention hall - without spilling a drop. On the contrary, the surface of the water oscillates only a little. It is no wonder that the congress visitors pull out their cell phones and film the process. However, what is shown here, is just on the surface the gentle water transport: Rather, it is about transporting patients, free as possible from vibration, from the preparation room to the linear accelerator. gKteso founder and managing director, Guido Kübler personally helped to build the system in the ESTRO convention hall: "The forces which act on the RPS are enormous: With RPS extended, we can transport people up to a weight of 250 kg over a distance of six meters - without provoking even a minimal position change or vibration of the patient".

The Radiotherapy Patient System RPS extended is at the heart of a modern radiation therapy center. It allows the parallel preparation and treatment of three patients simultaneously. In separate preparation rooms, the patient can be prepared for radiation

treatment on the treatment platform. This includes the positioning of the patient as well as any necessary measures for immobilization. This process requires great care and precision, so that during subsequent radiation therapy the tumors are irradiated as much as possible and healthy tissue is spared. Important time which so far has forced the linear accelerator to cease operation.

### Cost advantage for hospitals and radiation treatment centers: Optimum utilization

RPS extended ensures that the radiation therapy system is used optimally: A movable arm moves from the main unit under the linear accelerator into the preparation room, accepts without vibration the treatment platform with the prepared patient and transports them gently and safely to the linear accelerator. Equipped with six degrees of freedom, RPS moves patients into the optimal position for radiation treatment. Breathing movements or peristalsis are automatically detected and compensated for during the treatment. Moreover, while the radiation treatment is taking place, two other patients may be already prepared.

### RPS base modernizes also older systems

While the RPS extended is intended especially for the construction of new hospitals and radiation therapy centers, the expert visitors to ESTRO were interested in the basic variant, RPS base. This is so older radiation therapy systems can be modernized and improved. Thus, the RPS, due to its six-dimensional mobility, compensates for deficient set-up options of older systems. The integrated RFID reader (radio frequency identification) improves security by alignment without contact of the patient's position with the pre-defined target data. Moreover, even without additional imaging techniques, RPS allows a more accurate radiation treatment because the system automatically compensates for breathing movements or peristalsis during the treatment. "ESTRO has brought our innovative RPS into contact with the people who work daily in the field of radiotherapy. The great interest and many contacts have shown us that RPS can further improve safety and comfort for patients. We see clearly the future after the expert discussions in modern radiation therapy centers, which bring several partners together to create cost advantages. Here the RPS extended will play an important role in the

efficient use of the linear accelerator, while improving the comfort for the patient", concluded Guido Kübler.

((Box))

Radiotherapy Patient System - the advantages at a glance

- Improved patient comfort as a result of a low entry height, which can be handled also by wheelchair users
- Improved patient safety through reliable and reproducible storing of the individual patient positioning and of all data.
- Integrated RFID Reader (radio frequency identification), which without contact detects the position of the patient and transports them when deviations occur to the pre-defined location
- Automatic compensation for body movements such as breathing or peristalsis

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