

## **Danish University Hospital elects Orfit's technology as new immobilization system for head and neck cancer patients**

*Independent comparative study evidences superiority of Orfit's High Precision system for radiation therapy*

Antwerp (Belgium), 2 November, 2012. As a result of a comparative study of commercially available immobilization systems for radiation oncology, the Odense University Hospital in Denmark selected the system developed by Orfit Industries as the best and decided to place an important order with Scanflex Medical AB for Orfit's High Precision systems for Brain and Head & Neck cancer treatments.

The use of newly available technology that entails a better control of a patient's position during radiotherapy, made a research team of Odense University Hospital decide to evaluate the precision of three different immobilization systems: Orfit's with its Efficast High Precision mask, and two systems from other manufacturers. The purpose of the study was to measure the random and systematic setup errors and to compare the results among three equal groups of head and neck cancer patients. The outcome of the study clearly demonstrates the superiority of the Orfit immobilization system as it has *"lower re-scan frequency due to less rotational setup error, reducing the need for time consuming patient repositioning considerably."*

Daily CBCT (Cone Beam Computed Tomography)<sup>1</sup> scans of head and neck cancer patients are increasingly common. Although such scans allow precise patient set-up, rotational set-up errors are often not sufficiently corrected. This requires repositioning and rescanning a patient, which takes effort and time. Correction of these errors is very important in the head and neck region due to close adjacency of target and organs at risk. The study shows that in the Odense setup the Orfit system had *"significantly less"* setup errors than the two competing systems. This results in a reduction of time needed to treat a patient and in higher precision of treatment.

Orfit entered the Danish market years ago and its products are being distributed in Denmark by Scanflex Medical AB (Sweden). The outcome of this comparative study by the Odense University is expected to boost Orfit sales in the region and beyond. Furthermore, the Danish National Cancer plan, launched a few years ago, mentions the need for additional radiotherapy treatment for its greying population.

*"To Orfit, this order means a breakthrough in the Danish market, and we gratefully appreciate the support of Scanflex Medical AB, and the work of Odense University Hospital carrying through this independent comparative study, which proves the superiority of our clinical solutions",* Steven Cuypers, CEO of Orfit Industries says.

### **About Orfit Industries**

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<sup>1</sup> [medical imaging technique](#) consisting of [X-ray computed tomography](#) where the X-rays are divergent, forming a cone. During a cone beam CT scan, the scanner rotates around the patient's head, obtaining up to nearly 600 distinct images

**Orfit Industries**, with headquarters in Antwerp (Belgium), a family-owned business, is market leader in the development and manufacturing of low temperature thermoplastics, hardware and accessories for patient immobilization and positioning in Radiation Oncology. The company also manufactures thermoplastic materials for Physical Rehabilitation (Splinting) and Technical Orthopedics markets, and exports to over 80 countries worldwide. In addition, Orfit Industries offers customized training programs to therapists and medical staff and invests up to 15% of its turnover in R&D. Employing 50 people, Orfit has subsidiaries in the USA, Germany and France.

#### **About Odense University Hospital**

**OUH** (Odense University Hospital ) comprises one of three main centres in the Danish hospital service and is the largest of four hospital areas in the Region of Southern Denmark. OUH is the main hospital for Funen's 520,000 inhabitants. The Department of Oncology has more than 350 employees and offers a variety of oncological modalities. The Department is equipped with 8 linear accelerators (Elekta) CT-scanners, and treats more than 2 200 new patients a year with new technologies including VMAT (*Volumetric Modulated Arc Therapy*), a treatment strategy for intensity modulated radiation therapy, stereotactic radiotherapy, respiratory gating and 4D-treatment.

#### **About Scanflex Medical AB**

Serving the healthcare industry since 1976, **Scanflex Medical** is a leading developer, manufacturer and supplier of radiation protection products and accessories for radiology, nuclear medicine and oncology/radiotherapy in the Nordic countries.

Scanflex Medical is part of the Scanflex Healthcare Group of companies, all serving the medical radiology needs of hospitals internationally.

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