

Currently undergoing testing for CE marking.

Commercial availability: 2016

**Manufacturer:**

**hydrosun<sup>®</sup>**

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**Distribution:**

**heckel**

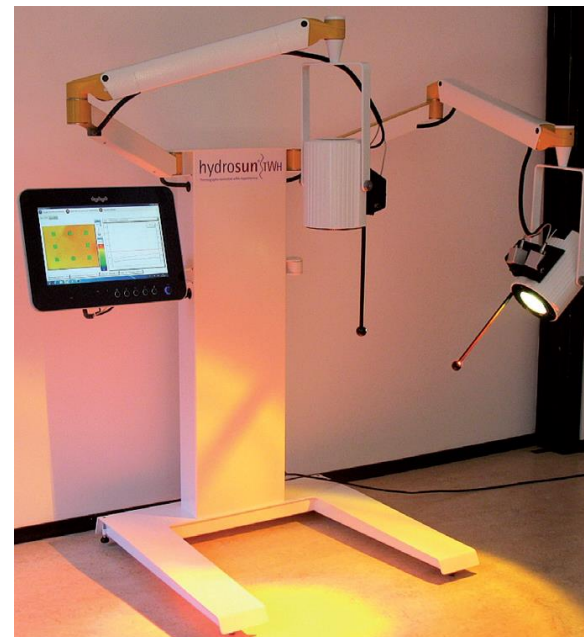
hyperthermie

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## *Pre-Announcement*

### **New Technical Solution for Superficial Hyperthermia to Treat Advanced Local Recurrent Breast Cancer**

**hydrosun<sup>®</sup> TWH1500**  
Thermography-controlled  
Water-filtered Infrared-A  
Hyperthermia



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Although the therapeutic options for breast cancer have generally improved a lot, the treatment of pre-irradiated local recurrent breast cancer – resistant to chemo- and hormonotherapy - is still a major problem.

Ca. 4% of patients dying from breast cancer die due to local uncontrolled disease after suffering from a horrible loss of quality of life.

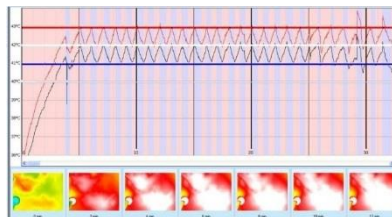
Superficial hyperthermia combined with re-irradiation with limited tolerable doses offer a possibility to achieve again local control and to relieve distinctly pain, ulceration, bleedings, thoracic constriction, lymphoedema, nerve infiltration.



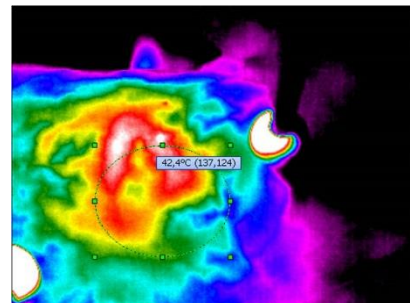
21.03.2013



05.04.2013: 4 x 4 Gy + HT 1x/week



Thermographic control system



- Contact-free heating
- Real-time thermography measurement and control of superficial temperatures to provide optimal heating and avoid any burnings
- Effective superficial hyperthermia even for large target areas (no limitation due to size of applicator)
- Deep penetration (up to ~1cm) of Infrared A hyperthermia due to water-filtering
- Reasonable costs for purchase and maintenance

First clinical results have been most positive.

Since 2009 ~100 patients treated at the Hôpital Cantonale La Chaux-de-Fonds, Switzerland, Dept. of Radiotherapy, Dr. Markus Notter,

Since June 2015 at the Lindenhofspital, Bern, Switzerland.

Publication in preparation.