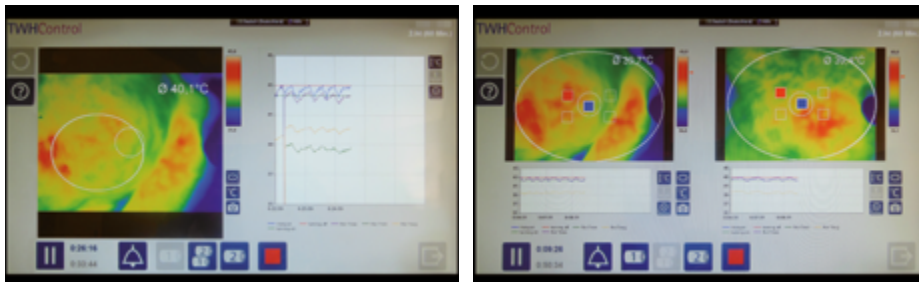


Thermography-controlled



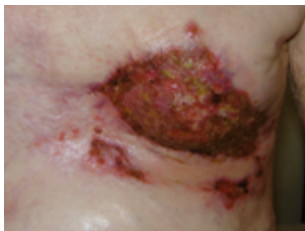
- Real-time thermography measurement and control of superficial temperatures
- Sensitivity to anatomical structures and physiological changes during hyperthermia

Water-filtered Infrared-A

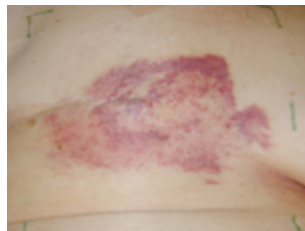


- Contact-free heating
- Effective superficial hyperthermia even for large target areas
- Effective till a depth of 2 cm because of water-filtered infrared-A (wIRA)
- Reasonable costs for purchase and maintenance

Superficial Hyperthermia



26.10.2012



13.03.2013



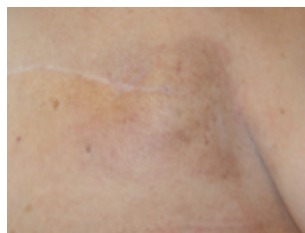
07.07.2014

local recurrence after former re-RT + MW hyperthermia



16.01.2013

after re-RT 5 x 4 Gy + TWH, 1x/week



24.04.2013

(before 5. HT/RT) after re-RT 4 x 4 Gy + TWH, 1x/week



14.09.2015

FU 10 months after re-re-RT + TWH

- New chance for tumor control of heavily pretreated, large-sized recurrence of breast cancer, particularly lymphangiosis
- Combined with re-irradiation using tolerable, reduced radiation doses
- Option of re-re-irradiation because of minor toxicity

Notter M, Piazena H, Vaupel P: Hypofractionated re-irradiation of large-sized recurrent breast cancer with thermography-controlled, contact-free water-filtered infra-red-A hyperthermia: a retrospective study of 73 patients.

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