

Cryoablation of a 6mm Retro Mamillar Lesion

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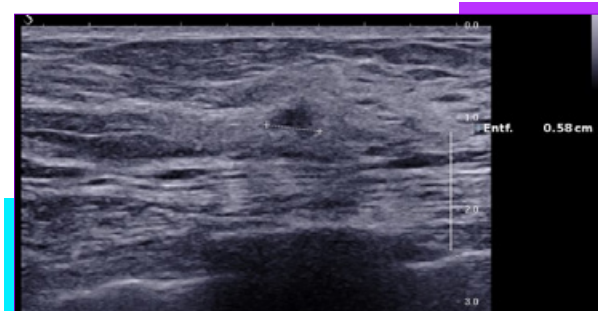
Results from case studies are not necessarily predictive of results in other cases. Results in other cases may vary.

“Cryoablation is a feasible option to treat breast cancer if patient condition does not favour surgery.”



PRESENTATION

- ▶ 87-year-old female with history of chronic leukemia presents for routine mammography and sonography
- ▶ Discovered an inconspicuous retro mamillary 6mm left breast lesion
- ▶ Biopsy taken and pathologic results confirm a breast carcinoma (Estrogen Receptro (ER) +++, Progestrone Receptor (P) +++, Human Epidermal Growth Factor Receptor (HER2) ++

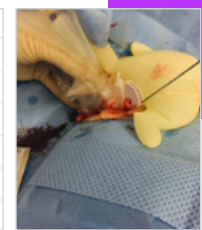
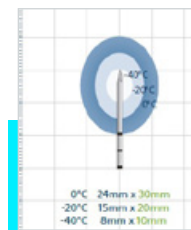


Live tumour measurements via ultrasound before the treatment

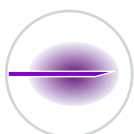


TREATMENT PLAN

- ▶ Tumour board opt for cryoablation treatment after the patient vehemently refuses surgery owing to personal circumstances. Patient open to a local therapy option.
- ▶ Outpatient treatment with cryoablation was planned
- ▶ Treatment planning was done with 1 IceSeed™ 1.5mm needle

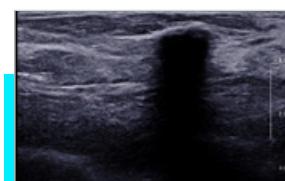


Isotherm data of the IceSeed needle Needle placement with guidance

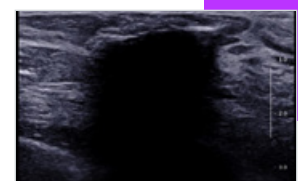


TREATMENT AND FOLLOW UP

- ▶ Local anesthesia with superficial Lidocaine
- ▶ Based on ultrasound guidance 1 needle was positioned centrally into the tumour mass using a lateral approach
- ▶ The freeze-thaw cycle used can be seen below
- ▶ Straightforward easy cryoablation treatment was performed without complications and the patient did not feel any pain
- ▶ The 1 week sonographic follow up shows an uncharacteristic hyporeflective lesion
- ▶ After 4 weeks and during the further quarterly checks, no more focal findings could be detected



Iceball size after 3 min. of freezing



Iceball size after the first freezing cycle



Iceball size with measurement of the 0° zone after the second freezing cycle



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CONCLUSION

- ▶ Cryoablation therapy can be considered for elderly patients with co-morbidities that contraindicate surgery or patients that refuse breast surgery
- ▶ The treatment can be performed as 30- minute outpatient treatment
- ▶ Cryoablation was in this case a good alternative to surgery, with a satisfactory clinical outcome