



Non-surgical Ablation Therapy for Early-stage Breast Cancer

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Abstract: Covering the history of breast cancer, theory of radiofrequency ablation (RFA), resection of carcinoma, imaging before and after non-surgical ablation therapy and quality of life, this book focuses on extensive breast-conserving treatment for the preservation of a cosmetically acceptable breast. It investigates the feasibility of percutaneous, minimally invasive techniques to ablate breast tumors and several modalities such as cryosurgery, laser ablation, thermoablation and high-intensity focused ultrasound. Non-surgical Ablation Therapy for Early-stage Breast Cancer centers on RFA and provides insights into cryoablation and focused ultrasound surgery. RFA has been shown to be effective for treating tumors in many types of tissue, including liver, bone, brain, kidney, pancreas and prostate. As such this book is a valuable resource for breast and general surgeons, radiation oncologists and medical oncologists in all areas. The extensive discussions enable scholars to gain radiological expertise and a basic understanding of molecular biology, leading to better surgery without scalpels.

Contents: 1. Introduction – 2. Evolution of Operative Methods in Japan – 3. New Trends and Development in Breast Surgery – 4. A Theory of Radiofrequency Ablation (RFA) – 5. RFA of Breast Cancer: Criteria and Procedure – 6. RFA of Breast Cancer: Technique 1, Requisite Skills; Pitfalls to Avoid – 7. RFA of Breast Cancer: Technique 2, Knack and pitfall – 8. Histopathological Evaluation of the Therapeutic Effect of RFA for Early Breast Cancer – 9. Importance of Breast Imaging Before and After RFA Therapy – 10. Cosmetic Outcome of QOL – 11. RFA of Breast Cancer: a Multicenter Retrospective Analysis – 12. RFA with a Cool-tip Electrode in Early Breast Cancer – 13. RFA with a LeVein Needle Electrode in Early Breast Cancer – 14. RFA of Early Breast Cancer Followed by Delayed Surgical Resection – 15. RFA of Early Breast Cancer without Resection – 16. Prospective Study of RFA of Early Breast Cancer without Resection – 17. MRI-guided Focused Ultrasound Surgery of Breast Cancer – 18. Ultrasonography Guided Non-surgical Cryoablation for Small Breast Cancer – 19. Importance of Breast Imaging before and after Non-surgical Ablation Therapy – 20. Future and Development of Non-surgical Ablation of Breast Cancer.

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