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## **INTERVENTION METHODS IN PATIENTS AFTER SURGICAL THERAPY OF BREAST CANCER: THE RETROSPECTIVE STUDY**

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**Introduction:** In the Slovak Republic, breast cancer is the most common type of oncological disease in women, the leading cause of cancer mortality in all women. In the past 10 years, breast cancer mortality has continued to slowly decrease; the breast cancer incidence in the past 20 years has continued to increase, likely due to program of preventive mammography.

**The Aim:** The aim of this retrospective study was to assess the importance, the position of the interventional methods; core cut biopsy and fine needle aspiration biopsy under ultrasound control in the differential diagnostics of changes after surgical treatment for breast cancer.

**Patients & Methods:** We evaluated examinations of 385 patients with newly diagnosed breast carcinoma after conservative surgical therapy in period between January 2005 and December 2016 from Clinic of Radiology in Trencin. In all the cases, we performed ultrasound, mammography 2D and 3D examinations, ultrasound guided biopsy with free hand methods, needle 14, 16 and 20 G.

**Results:** The major findings as postoperative changes were seromas, haematomas, fat necrosis, skin thickening, inflammatory changes, granulomas, postoperative scars and local tumor recurrence.

**Conclusion:** The ultrasound guided interventional methods; fine needle aspiration cytology and core cut biopsy are reliable and perfect methods for the differential diagnosis of postoperative changes and the follow up of postoperative changes.

### **Biography**

Jana Slobodnikova has completed Specialization of Radiology I and II from Charles University in Prague, Faculty of Medicine. She has completed Post-doctorate and CSc (PhD) at the Institute of Experimental Oncology, Slovak Academy of Sciences. She was an Assistant Professor at Tyrnaviensis University, Hosting Professor at St. Elizabeth High School in Bratislava. She has been teaching at several universities in Prague, Trenčín, Trnava and Bratislava. She is Author of teaching text, university textbooks, and lead workshops. She organizes international congresses and workshops. She has published more than 90 scientific papers, from then 25 papers in renowned journals and has been active as Editorial Board Member of repute in 5 scientific periodicals. She has published 3 monographies, and has founded the Section of Breast Imaging in 1996. Since 1996, she is the President of the Section of Breast Imaging of Slovak radiologic Society and Vice President of the Slovak Society of Ultrasound in Medicine. She has Membership in organizations: ECR, EUSOBI, EFSUMB, SSUM (Slovak Society of Ultrasound in Medicine) and SRS (Slovak Radiology Society).

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