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The basic knowledge about the possibility to use the micronucleus test for the diagnosis of the doubt cases in the screening for the determination of breast cancer

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Introduction & Objectives: The aim of this study is to check the possibility to use the test with micronuclei in saliva for doubt cases detected in screening for breast cancer.

Materials & Methods: A bibliographic search has been executed on PubMed (MEDLINE), Home Genetic Reference, for articles published from Jan 1, 2000 to Dec 31, 2016, for the keywords: Micronuclei in exfoliated buccal cells in breast cancer. The key words are used in the research in free text, and with cross –referencing method application. Another search has been made for MN in breast cancer, from Jan 1, 2014 to today.

Results: Five studies show that in buccal cells, in breast cancer, the amount of MN are significantly higher than compared to benign cases as in six studies for the detection of micronuclei in needle aspirates ductal. Contrasting results are for MN in peripheral blood lymphocytes.

Discussion: The micronuclei scoring can be used as a biomarker on fine needle aspiration cytology smears of breast cancer, while the tests in peripheral blood lymphocytes, have known reproducibility problems. The references show that an increase of MN in exfoliated buccal mucosa cells test is interesting to apply the MN scoring in cases of doubt, according to functional BI-RADS category three (probably benign), and which are sent to a successive control.

Conclusions: It has verified that buccal cells in cases of breast cancer are significantly higher than the number of MN compared to benign cases. This indicates the possibility of applying this technique in cases of doubt in oral saliva.

Biography

Menicagli Laura has completed her Degree in Medicine and Surgery from University of Milan, Italy on 2007 and has specialization in Radiodiagnostics from University of Milan, Milan, Italy. She is the reader for the mammographic screening service organized by the ASL Milano 2.

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