

2nd World Congress on **Breast Cancer**

September 19-21, 2016 Phoenix, USA

70-gene signature (Mamma print®): Assessment using samples fixed in formalin and embedded in paraffin, obtained via diagnostic core-needle biopsies

Juan Antonio Mieza Arana¹, José Antonio López Ruiz² and Ignacio Zabalza Estévez³

¹Cruces University Hospital, Spain

²PRETEIMAGEN Radiology Centre, Spain

³Galdakao General Hospital, Spain

Background: According to some authors, there is the possibility of obtaining a valid analysis of the tumor genetic fingerprint using paraffin blocks containing samples obtained via radio-guided large needle biopsy.

Methods: We present 15 cases, with samples obtained via echo-guided biopsy with a 12 G needle (3 to 4 samples) through malignant solid masses during the diagnostic procedure. The samples used for examination by Mamma print® came from the paraffin blocks used for the conventional histological diagnosis, following assessment by a pathologist. A review of the available literature on this subject was conducted.

Results: The number of samples varied from 3 to 4. In 12 cases (80%), we were able to obtain valid samples for Mamma print® assessment. The results were “High Risk” in five cases and “Low Risk” in seven cases.

Conclusion: Upon our experience, the same samples obtained via per-cutaneous biopsy for assessment of suspicious lesions, with a result of malignancy, can be used for the 70-gene prognosis signature assessment (Mamma print®).

Biography

He was Born in 1956, in Barakaldo-Bizkaia (Basque Country), SPAIN. Doctor in Medicine, Basque Country University. Radiologist. Accredited university Professor in Health Sciences, Basque Country University. Founding member and past President of the “Spanish Society of Breast Imaging” (SEDIM). Founding member of the “European Society of Breast Imaging” (EUSOBI). Founding member and Past-Vicepresident of the “Iberoamerican Society of Breast Imaging” (SIBIM). Founding member and President of the “Basque Society of Breast Diseases”. Author of numerous articles and book chapters about breast diseases.

jonmieza@yahoo.es

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