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CDH1 and NM23H1 DNA Methylation as metastasis predictors in invasive ductal breast

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Abstract

Background: This study aims to predicting the occurrence of metastasis in breast carcinoma biopsy and analyzing E-cadherin and Nm23H1 expressions to be used as metastasis predictors to find out the occurrence of methylation from both metastases of breast cancer.
Hypothesis: The absence or low expressions of E-cadherin and NM23H1, separately or together, can increase tumor invasion and metastasis, and that through immunohistochemisty and RT-PCR, there is a proof of methylation in both.
Methods: Paraffin blocks were obtained from 48 biopsy patients of breast carcinoma, with or without metastasis, are subjected to observation. Histopathological examinations of eosin hematoxylin slides of primary and secondary tumors to diagnose the degree of histological malignancy and metastasis status. Further, immunohistochemistry staining of E-cadherin, NM23HI and cytokeratin followed by scoring according the number of positive cells and staining intensity, then continued examination of CDH1 methylation status and NM23H1 with RT-PCR reactions, and than analyzed according to the objective of the research.
Conclusion: E-cadherin and NM23H1 expressions, separately or together, can increase tumor invasion and metastasis, and that through immunohistochemisty and RT-PCR, there is a proof of methylation in both.

Biography

Primariadewi Rustamadji has completed her Ph.D at the age of 45 in University of Indonesia. She is a Pathologist Specialist and Consultant from Faculty of Medicine University of Indonesia and a Lecturer in University of Indonesia, UIN, UNTAN, University of Palangkaraya, University of Bengkulu and a member of IAP organization. Last year she has done an Observership in Breast Pathology at Beth Israel Deaconess Medical Centre Teaching Hospital of Harvard University. She just has published a few of papers in reputed journal. She had a Research on Overexpression of HER2 and NM23H1 at ductal invasive carcinoma breast cancer and metastasis at lymph node and E-cadherin and NM23H1 as metastasis predictors for various degrees of histological malignancy in invasive ductal carcinoma.