

15<sup>th</sup> International Conference on **Surgical Pathology and Cancer Diagnosis**

&amp;

4<sup>th</sup> International Conference on **General Practice & Primary Care**

April 15-16, 2019 Berlin, Germany

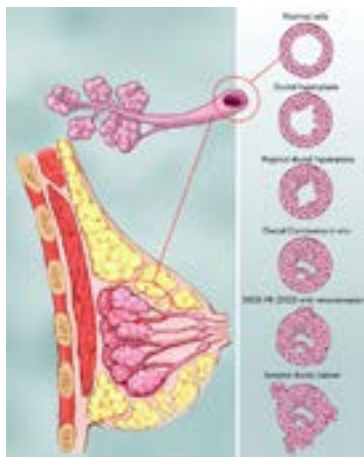


## *Shaimaa Mohamed Mouneer Bebars*

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### **CD10 and COX-2 high expression in invasive duct carcinoma NST cases of Egyptian patients**

The importance of breast cancer is derived from its high incidence and mortality worldwide. Breast cancer is one of top ten cancers in Egypt. It ranks as the first malignancy affecting females, contributing 30% of all female cancers. It affects 1 in 14 women during their life time. This study investigated the immunohistochemistry expression of CD10 & cyclooxygenase-2 (COX-2) in 40 cases of invasive duct carcinoma NST of Egyptian female and its relationship with clinicopathologic data including established prognostic indicators like age, tumor size, lymph nodal status, grade, lympho-vascular invasion, insitu component as well as its association with ER, PR, KI67. Both CD10 & COX-2 showed high expression. The Stromal CD10 expression was detected in 45% of cases and COX-2 in 100% of all studied cases. Strong intensity of CD10 was detected in 50% of positive cases while strong COX-2 was expressed in 67.5% of cases. Significant association was detected between CD10 and lymph node status more than half of the strong CD10 cases had N3 nodal staging. This indicates the potential relation of stromal CD10 expression and bad prognosis. However, other parameters showed no significant association with CD10. 88.5% & 84% with marked ER & PR expression respectively had COX-2 score 4. In addition, score 4 COX-2 was expressed in 75% of cases with in situ component, 66.7% of cases with vascular emboli & 81.8% of N3 nodal status cases. Although no statistically significant association could be found with clinicopathologic data, COX-2 is mostly related to bad prognosis indicators.



## JOINT EVENT

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### Recent Publications

1. Ibrahim A S, Khaled H M, Mikhai N N, Baraka H and Kamel H (2014) Cancer incidence in Egypt: results of the national population-based cancer registry program. J Cancer Epidemiol. 2014(437971):1-18.
2. Rizk AM, Abdelzاهر E, Gowil AG, Elsaka RO. (2017): Stromal expression of CD10 in invasive breast carcinoma and its correlation with clinicopathological parameters. Egy J of Pathol. 37(1):1-7
3. Sadaka E, Almorsy W, Elsaka A (2016). CD10 expression as a prognostic factor in female patients with invasive ductal carcinoma of the breast. J Am Sci. 12:4.
4. Jana D, Sarkar D K, Ganguly S, Saha S, Sa G, Manna A K, Banerjee A and Mandal S (2014) Role of Cyclooxygenase 2 (COX-2) in prognosis of breast cancer. Indian J Surg Oncol. 5(1):59-65.
5. Kargi A, Uysal M, Bozcuk H, Coskun H S, Savas B and Ozdogan M (2013): The importance of COX-2 expression as prognostic factor in early breast cancer. J BUON. 18(3):579-84

### Biography

Shaimaa Mohamed Mouner Bebars has completed her PhD in the Faculty of Medicine at Cairo University. She is a Senior Lecturer and Consultant of Pathology in the Faculty of Medicine at Aswan University and Adjunct Faculty at Biomedical Science, Zewail city of Science and Technology, a premier research organization in Egypt. She is acting as Chief of Pathology Department. She is a Member of the Egyptian society of pathology and a Certified Associate Trainer from International Board of Certified Trainers (IBCT). She attended many international and national conferences, meetings, workshops, seminars and educational courses. She published one paper in reputed international journal, submitted two papers for publish in reputed journals and she is working on other researches.

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