GATA 3 EXPRESSION IN BREAST CARCINOMA, AND ITS ASSOCIATION WITH ER, PR, HER 2 NEU STATUS, A 3 YEARS STUDY IN A TERTIARY CARE CARE CENTRE”

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Introduction: Some recent studies has shown that expression of GATA-3 is limited to carcinoma of breast and carcinoma of urinary bladder and therefore this IHC marker may be a sensitive and specific marker for metastatic breast carcinomas.

Methods: In this study, to evaluate the expression of GATA-3 in breast carcinoma and to compare the GATA-3 expression with already known ER, PR and HER 2 neu status of breast carcinoma cases.

Materials and methods: This is a study of both prospective and retrospective type for a period of 3 years. For our study we did IHC test for 50 cases of invasive breast carcinoma with already known ER, PR and HER 2 NEU status.
Observation and results: In our study out of 50 cases 36 (72%) showed GATA 3 reactive and 14 cases (28%) cases were negative and 36 (72%) case showed positive result.

Among the luminal subtype 91% showed GATA3 positivity and 2 cases (9%) showed negative reaction to.

Conclusion: From the study it is found that GATA3 may not be shown to be a prognostic factor. GATA 3 expression in triple negative tumors may be an important clue to establish this marker for metastatic breast carcinoma (MBC).

ABBREVIATIONS

IHC - Immunohistochemistry
ER - Estrogen Receptor
PR - Progesterone Receptor
HER 2 - Human Epidermal Growth Factor Receptor- 2
GATA - Family of transcription factor characterized by ability to bind with the “GATA” sequence of DNA.