

International Journal of Clinical and Biomedical Research Case Report

A RARE CASE OF INVASIVE PAPILLARY CARCINOMA OF BREAST

*DIVISH SAXENA¹, MURTAZA AKHTAR ², AVINASH RODE³, DHRUV KUNDRA⁴. ¹Assistant Professor, ²Professor & Head, ³Associate Professor, ⁴Senior Resident, Department of Surgery, NKP Salve Institute of Medical Sciences, Digdoh Hills, Nagpur. *Corresponding author email: drdivishsaxena@yahoo.co.in Received: 05th May 2015, Accepted: 09th June 2015.

ABSTRACT

Papillary carcinoma of the breast is extremely rare variety of carcinoma breast with a mere incidence of only 0.5% of all recently diagnosed cases of breast cancer. We present a case of 63 years old postmenopausal female who came to surgical outpatient department with complaints of a slowly increasing mass in the left breast of 1 month duration which was painless. A Left-sided modified radical mastectomy was performed with an absolutely normal post operative period. The final histopathology report was suggestive of invasive papillary carcinoma. We report this case as it is rarely diagnosed.

KEYWORDS: Invasive papillary carcinoma; modified radical mastectomy, carcinoma breast.

INTRODUCTION

Papillary carcinoma of the breast is extremely rare variety of carcinoma breast with a mere incidence of only 0.5% of all recently diagnosed cases of breast cancer. The presentation is usually a gradually increasing lump in breast with or without blood discharge from the nipple ^[1]. Radiological investigation in the form of mammography or MRI breast is not so useful ^[1]. Histological features include numerous cells closely impacted around fibro vascular cores scattered throughout the breast tissue ^[2]. Invasive papillary carcinoma is distinguished from non invasive papillary carcinoma when the basement membrane is involved.

CASE REPORT

A 63 years old postmenopausal female presented with a painless mass in the left breast of 1 month duration, gradually increasing in size. Fine needle aspiration cytology of the mass suggested papillary lesion with moderate atypia. Mammography reported a BIRADS 3 lesion suggesting a probability of benign lesion. Metastatic workup was done and there were no obvious evidence of metastasis .An excisional biopsy in the form of simple lumpectomy was done. Histopathology of the specimen reported Papillary carcinoma breast, invasive type (Figure 1). ER, PR (Estrogen receptor & Progesterone receptor) & HER-2/*neu* (Human Epidermal Growth Factor Receptor 2) studies carried on specimen were positive (Figure 2a, 2b, 3). The patient was subjected to a modified radical mastectomy of the left breast. Post operative stay was uneventful and patient was discharged on 15th day. She was given 6 cycles of adjuvant chemotherapy consisting of 5-Flurouracil, Adriamycin and Methotrexate, and aromatase inhibitors. A regular surveillance was advised to check for signs of recurrence, if any.

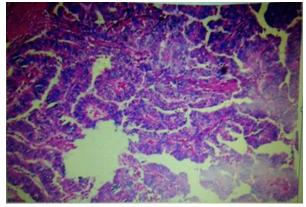


Figure 1. Papillary carcinoma breast, invasive type.

Int J Clin and Biomed Res. 2015;1(3): 105-107

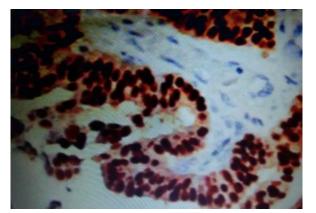


Figure 2a. Nuclear staining of estrogen receptors, brownish staining of receptors(x 200 magnification)

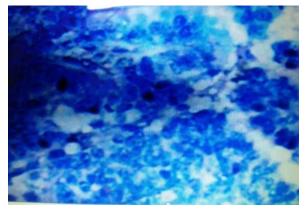


Figure 2b. Nuclear staining of progesterone receptors, bluish staining of receptors(x 200 magnification)

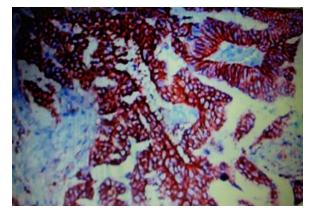


Figure 3. Focus of circumferential membrane staining for HER-2/*neu* receptors (x 300 magnification)

DISCUSSION

According to the literature, Invasive Papillary carcinoma (IPC) is extremely rare type of breast malignancy with a reported incidence of just 0.5 to 1% among all breast carcinomas. It

carries a very good prognosis and is seen in elderly females ^[4, 6]. The distinguishing feature of non-invasive papillary ductal carcinoma is the presence of fibro vascular cores with surrounding neoplastic cells. The neoplastic epithelium shows benign looking stratified columnar cells; but sometimes areas of closely impacted cells giving a nodular appearance, or forming a cribriform pattern, or showing minute papillary proliferations can also be demonstrated. Nuclei may show hyper or hypochromatism. Another characteristic feature of papillary DCIS is the absence of myoepithelial cell layer which is present in all other variety of Ductal carcinoma in situ. Multifocality can also be seen throughout the breast stroma ^[3]. Patients do not present with axillary lymphadenopathy unless there is evidence of micro invasion in papillary DCIS. The risk factors for papillary DCIS and other varieties of breast carcinoma are same ^[5]. The management of papillary breast carcinoma is surgical in the form of modified radical mastectomy if there is evidence of invasive papillary carcinoma otherwise a lumpectomy will suffice in case of papillary DCIS. A local radiation therapy is recommended after breast conservation surgery. Chemotherapy schedule is same as that for other breast malignancies if there is evidence of invasive papillary carcinoma. The prognosis of papillary carcinoma breast is better as compared to other breast malignancies [7].

CONCLUSION

Invasive Papillary Carcinoma of breast should be managed on the same principle as for any other breast carcinoma requiring a modified radical mastectomy with adjuvant chemotherapy and hormonal therapy if the tumor shows positive estrogen/progesteron receptor status.

REFERENCES

- Louwman MWJ, Vriezen M, Beek MWPMv, Nolthenius-Puylaert MCBJET, Sangen MJCvd, Roumen RM, et al. Uncommon breast tumors in perspective: Incidence, treatment and survival in the Netherlands. International Journal of Cancer. 2007; 121(1):127–35
- McCulloch GL, Evans AJ, Yeoman L. Radiological features of papillary carcinoma of the breast. Clin Radiol. 1997; 73:865

- Sumanta Kumar Pa, Sean K. Lau, Laura Kruper, et al. Papillary Carcinoma of the Breast: An Overview. Breast Cancer Res Treat. 2010 August; 122(3): 637–645.
- Elverici E, Barça AN, Türksoy O, Araz L, Yüksel E. Bilateral invasive papillary carcinoma of the breast. Clin Imaging. 2007; 31:419–421.
- Pervez S, Khan H. Infiltrating ductal carcinoma breast with central necrosis closely mimicking ductal carcinoma in situ (comedo type): a case series. J Med Case Reports.2007; 1:83.
- 6) Solorzano CC, Middleton LP, Hunt KK, Mirza N, Meric F, Kuerer HM, Ross MI, Ames FC, Feig BW, Pollock RE, Singletary SE, Babiera G: Treatment and outcome of patients with intracystic papillary carcinoma of the breast. Am J Surg 2002, 184:364-368.
- 7) Sanjay P. Deshmukh, Anupama Dutt Mane, Varsha S. Hardas, Swapnil V. Karnik. Papillary Carcinoma of the Breast- Case Reports and Review of Literature Regarding Management Guidelines. Indian Journal of Surgery, December 2012, Volume 74, Issue 6, pp 510-512.