Case Report

Ca breast with bell’s palsy: a rare presentation

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ABSTRACT

Parotid and cervical lymph nodes are subtle sites for metastasis from breast carcinoma. A 55-year-old female patient of carcinoma breast previously radically treated with chemo-radiotherapy and was on regular follow up conferred to our department with left sided bell’s palsy and a swelling in her left parotid region. Through this case, we present the expedient management of advanced breast cancer usher with the parotid gland and cervical lymph node metastasis. As we found this an intriguing case and outlandish and exceptional presentation, oncologists should be aware of the prodigious clinical course for early diagnosis and transcendent treatment.

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1. Introduction

In the head and neck malignancies, salivary gland tumours, especially metastatic, are uncharted clinical events. Salivary glands itself are deviant for primary malignancies, while secondary metastatic deposits are farther profoundly rare with description of only petty case reports in the literature. Among all Parotid tumours there is 9-14% of metastatic deposited to parotid. Metastasis to the parotid gland from breast cancer is vastly rare, and to our knowledge give an account of only 14 cases between 1982 and 2010. Squamous cell malignancies of head and neck are the most common site of metastatic deposits to parotid gland, while secondary deposits from primary in infra-clavicular region are barely described. We are reporting a case of invasive duct cell carcinoma of the breast which spread to the parotid gland and cervical lymph nodes with left sided bell’s palsy.

2. Case Report

A 55 years old patient presented with lump of size 4x5 cm in left breast with left axillary lymph node of size 3x1cm matted fixed lymph node, staged as IIIB(T4a N2a M1). Histopathological examination (HPE): duct cell carcinoma, grade II, ER/PR and HER2neu was negative. Patient received CAF based chemotherapy 4 cycles and subjected for surgery (modified MRM), HPE (histopathological examination) s/o invasive duct cell carcinoma, NST Grade II, with all resections margins were negative, LVI negative. Patient received 4 more cycles of same chemotherapy followed by EBRT to chest wall, axilla and supraclavicular region @ 40 Gy /15#/3weeks. After completion of treatment patient was kept on follow up. After 11 months’ patient presented with swelling left parotid region, which was hard and was of size 4x3 cm along with left sided bell’s palsy. USG neck was done s/o swelling in left parotid, multiple enlarged Para glandular lymph nodes along with level IB, II, III cervical lymph-nodes largest of size 2x1cm, many lymph nodes showed loss of fatty hilum and they were round. FNAC was done which was suggested of meta static duct cell carcinoma (figure 1). ENT examination was done which was normal. Metastatic workup was done CECT shows only metastatic disease in parotid and cervical region with no local recurrence. Left parotidectomy was done which also shows histopathological proof of metastatic duct cell carcinoma. Patient was started on paclitaxel and cisplatin based chemotherapy thereafter.
breast carcinomas in the left and 5 in the right breast; 1 case unknown), and 3 case metastasized to right parotid gland (1 primary in the left and 2 in the right breast). On account of, 5 (45.5%) of the 11 patients with left parotid involvement had a primary carcinoma in the right breast, it is most likely that the spread accrued via haematogenous as opposed to direct lymphatic metastasis.\(^2\)\(^-\)\(^9\) In spite of definitive treatment, in our case, the patient experienced relapse 11 months after chemotherapy, radiotherapy and surgery. For the treatment of this metastasis, parotidectomy, radiation, chemotherapy was administered. Regardless of the metastatic pathway, generalized treatment such as chemotherapy and hormone therapy is needed. Because immunohistochemical analysis in our case had revealed the tumour to be negative for estrogen and progesterone and HER2 receptors, we continued to administer cisplatin and paclitaxel based chemotherapy postoperatively. The case presented here had presented with swelling in parotid region with VIth cranial nerve palsy, which was an atypical presentation. Oncologists should keep in mind that the clinical course or imaging findings are not always in line with common patterns. Rare presentations such as in our case are possible, and we should always strive for a histopathologic diagnosis.

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5. Conflict of interest

None.

References

10. Dangore-Khasbage SB, Degwakar SS, Bhowate RR, Bhake A. Metastatic involvement of parotid from carcinoma of the breast: a case

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