Primary malignant melanoma of the vagina following breast cancer: a case report

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Primary malignant melanoma of the vagina is extremely rare, highly malignant, and poor prognostic disease. Furthermore, there have been no reported cases of primary malignant melanoma of the vagina following breast cancer. A 51-year-old woman was diagnosed as right breast ductal carcinoma and underwent right breast conserving operation in May 2007. In January 2009, she underwent vaginal mass excision at local clinic and histopathologic diagnosis was metastasis of breast cancer. Further follow-up was not done. In October 2009, we performed wide local excision of increased vaginal mass of this patient. Histopathological analysis revealed primary malignant melanomas. IFN, dacarbazine and cisplatin were administered for six cycles after surgery. Recently, we followed-up this patient and found multiple metastasis using PET-CT. In our knowledge, there have been no reported cases in literature about primary malignant melanoma following breast cancer. Thus hereby, we report the case of primary malignant melanoma of the vagina following breast cancer treated with wide local excision and chemotherapy with a review of literatures.