

Letter to Editor

Immunotherapy: A New Era for Breast Cancer Treatment

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The breast cancer is one of the most fatal diseases of female. It can be categorized by various biomarkers depending on the cancer cell's own nature [1]. In the past 10 years, clinical trials had shown successful and promising efficacy in specific her2positive breast cancer patients [2]. Although breast cancer is not inherently immunogenic, recent researches have posed robust evidence of effective immunotherapy in the treatment of breast cancer. The application of immune checkpoint PD-1inhibitor pembrolizumab, has shown solid effect in every clinical setting of the breast cancer, including the metastatic breast cancer, early stage Triple-Negative breast cancer, hormone receptor positive Breast Cancer and her2 positive breast cancer patients [3-6]. Counterparts such as anti-PD-L1 antibody, atezolizumab and the CTLA-4 antibody, tremelimumab or ipilimumab posed the same positive effect [7,8]. Therefore; the immunotherapy did open a new era for breast cancer therapy, Not; Also the efficacy and safety of checkpoint inhibitor with other anticancer agents such trastuzumab/pertuzab are still needed to be warranted by multicenter clinical trials with larger amounts of participants. Furthermore, some potential biomarkers are still needed for future investigation.

Compliance with Ethics Guidelines

This article is based on previously conducted studies and does not involve any new studies of human or animal subjects performed by any of the authors.

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