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Dostarlimab: A Step Against Cancer

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Abstract: Immunotherapy have become the backbone in the treatment of cancer recently. Immune checkpoint inhibitors checkpoint therapy, monoclonal antibody therapy and chimeric antigen T-cell therapy have shown the peak level exceptional properties that activate the immune system to response to cancer cells, inhibiting their progression. Immune checkpoint inhibitors have demonstrated significant clinical activity across various types of tumor. Nowadays dostarlimab a new drug have been showing a miracle in the treatment of rectal cancer. In Year 2022 June, the clinical trial NCT04165772 reported a 100% remission rate for rectal cancer. This clinical trial have proved that they can match a tumor and the genetics of what is driving it, with therapy. Dostarlimabis approved on August 17,2021 by the U.S Food and Drug Administration (FDA) which treat mismatch repair deficient (dMMR) advanced-stage breast cancer Dostarlimab is a humanized monoclonal antibody that works by binding with high affinity to PD-1 resulting in inhibition of binding to PD-L1 and PD-L2. Research is done on the study of effect of dostarlimab on various patients.

Keywords: Dostarlimab, Endometrial Carcinoma, PD-1 Inhibitor, Immunotherapy, Cancer Therapy

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