

Integrating A Role of Injectable Hydrogel for Localized Cancer Therapy

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Abstract: *Traditional intravenous chemotherapy is often associated with adverse effects in normal cells and tissues including liver or kidney dysfunction and neurotoxicity, myelosuppression. As an alternative approach Localized chemotherapy can minimise the toxicity and side effects. As an alternative method, the injectable hydrogel can effectively reduce this type of adverse effects by releasing drugs topically at the tumor site . Based on the different types of stages of Cancer a number of Hydrogel based drug delivery have been developed that is thermo sensitive ,pH sensitive, photo sensitive and dual sensitive hydrogel. The recent advancement in this hydrogels and related drug discovery mostly injectable hydrogel for localised cancer therapy is used more effectively than traditional chemotherapy. This therapy is briefly discussed in this article.*

Keywords: Cancer, Hydrogel, injectable, localized cancer therapy, smart drug delivery