

Global Nano Chemotherapy Market & Clinical Trials Outlook 2022

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Abstracts

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“Global Nano Chemotherapy Market & Clinical Trials Outlook 2022” report highlights the current development in the in the field of nano chemotherapy. Report gives comprehensive insight on various clinical and non-clinical parameters associated with the expansion of global nano chemotherapeutics market. The clinical and pricing insight on chemotherapeutics nanoformulations of approved drugs helps to understand the current market scenario of the nano chemotherapeutics.

Nano chemotherapy is emerging as an important anti-cancer modality by supplementing the traditional chemotherapy. The main aim of nano chemotherapeutics is to improve the therapeutic efficacy of currently available chemotherapeutic agents by combining it with a nano scale delivery component. The majority of the cancer nanodrugs in the market are liposomes and polymer based nanoformulations which lower the toxicity and enhance the delivery of chemotherapeutics through the passive targeting. It is based on enhanced penetration and retention effect to reduce the lymphatic drainage in tumor tissue.

Conventional chemotherapeutic agents are distributed non-specifically in body where they affect both cancerous and normal cells and thereby it limit the dose availability with in the tumor and also results in suboptimal treatment due to excessive toxicities. To overcome the limitations of chemotherapy treatment, many more therapies has also been emerged.

The use of nanoparticles by both passive and active targeting strategies can enhance the intracellular concentration of drugs in cancer cells while avoiding the toxicity in

normal cells. When the nanoparticles bind to a specific receptors and then enter the cell, usually enveloped by endosomes through receptor mediated endocytosis and thereby bypassing the recognition of P glycoprotein.

Nanomedicine has already met with success in oncology domain with various product commercially available in the market. By releasing the efficacy of nanomedicine in oncology, it increases the interest of the market players to commercialize the products in the field of nanotherapeutics and helps to increase the global market. The future of nanotherapeutics is bright and especially for the reversible cross linked nano carriers which are decorated with the cancer targeting ligands and it promote the endocytic uptake in tumor cells. The approach has the potential to overcome the drug resistance which is often with conventional chemotherapies.

For the next generation cancer nanotherapeutics, the complexity is higher which are under clinical development in terms of hybrid structures, surface physiochemical characteristics and mechanisms of delivery and action. There have been rapid advances in the nano therapeutic field in the past decade. Many of the nano carriers have been developed from which some have the great therapeutic potential. However, there remain many challenges in translating the nanoparticle drugs into the clinics.

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