

Global Nano Chemotherapy Market & Clinical Trials Outlook 2022

https://marketpublishers.com/r/GCFB167B393EN.html

Date: May 2017 Pages: 110 Price: US\$ 1,500.00 (Single User License) ID: GCFB167B393EN

Abstracts

Please note: extra shipping charges are applied when purchasing Hard Copy License depending on the location.

"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.



Contents

1. NANO CHEMOTHERAPEUTICS MEDIATIONS – SOLICITATION TO NANOMEDICINE

- 1.1 Overview
- 1.2 Nano Chemotherapeutics with Pharmaceutical Potential

2. SIGNIFICANCE OF NANO CHEMOTHERAPEUTICS TO OVERCOME THE CHEMOTHERAPY LIMITATIONS

- 2.1 Limitations of Conventional Chemotherapy
- 2.2 Nanotechnology in Cancer Targeting
 - 2.2.1 Active Targeting
 - 2.2.2 Passive Targeting
 - 2.2.3 pH Dependent Drug Delivery Through Nanoparticles

3. ROLE OF NANOTHERAPEUTICS IN VARIOUS DISEASES TREATMENT

- 3.1 Nanotherapeutics Approach for Cardiovascular Disease
- 3.2 Nanotherapeutics Approach for Cancer Therapy
- 3.3 Nanotherapeutics Approach for Diabetes Treatment
- 3.4 Nanotherapeutics Approach for Rheumatoid Arthritis

4. CHEMOTHERAPEUTICS NANOFORMULATIONS OF APPROVED DRUGS: CLINICAL INSIGHTS & PRICE ANALYSIS

- 4.1 Abraxane (Advanced Lung, Pancreatic, Breast Cancers)
- 4.2 Depocyte (Lymphomtous Meningitis)
- 4.3 Doxil (Kaposi's Sarcoma, Ovarian Cancer)
- 4.4 Marqibo (Acute Myelogenous Leukemia)
- 4.5 Neulasta (Chemotherapy Induced Neutropenia)
- 4.6 Oncospar (Acute Lymphoblastic Leukemia)
- 4.7 Zevalin (Non-Hodgkin Lymphoma)

5. CHEMOTHERAPEUTICS NANOFORMULATIONS IN CLINICAL TRIALS: CLINICAL INSIGHT & MODE OF ACTION

5.1 MM-302 (Metastatic Breast Cancer)



- 5.2 Thermodox (Hepatobiliary Tumors)
- 5.3 CPX-351 (Acute Myelogenous Leukemia)
- 5.4 IHL-305 (Solid Tumor Malignancy)
- 5.5 MM-398 (Metastatic Pancreatic Cancer)
- 5.6 BIND-014 (Metastatic Prostate Cancer)
- 5.7 NK-012 (Solid Tumor Malignancy)
- 5.8 CRLX-101 (Solid Tumor Malignancy & Rectal Cancer)

6. GLOBAL MARKET NANOTHERAPEUTICS OUTLOOK

- 6.1 Market Scenario of Nanotherapeutics
- 6.2 Market Size of Nano-Medicines

7. CANCER NANOTHERAPEUTICS MARKET REVENUE

- 7.1 Sales of Nano-Chemotherapeutic Drugs
- 7.2 Top Nanotherapeutics Companies Revenue
- 7.3 Global Cancer Nanomedicine Clinical Pipeline Overview

8. GLOBAL NANO CHEMOTHERAPEUTICS MARKET DYNAMICS

- 8.1 Favorable Parameters
- 8.2 Challenges to the Market Growth

9. FUTURE PERCEPTIVE OF NANO CHEMOTHERAPEUTICS

10. COMPETITIVE LANDSCAPE

10.1 Ablynx
10.2 AMAG
10.3 Amgen
10.4 Celgene
10.5 CytImmune
10.6 Cornerstone
10.7 Delpor
10.8 Ensysce
10.9 MagForce AG
10.10 Merrimack
10.11 Nanotherapeutics



10.12 Nanobiotix10.13 Nanospectra10.14 Spectrum pharmaceuticals10.15 Tarveda



List Of Figures

LIST OF FIGURES

Figure 1-1: Application of Nanotechnology in the Field of Medicine Figure 1-2: Biomedical Application of Nano chemotherapeutics Figure 1-3: Nano Chemotherapeutics with Pharmaceutical Potential Figure 2-1: Limitations to Conventional Chemotherapy Treatment Figure 3-1: Nanotherapeutics for Heart Disease Treatment Figure 3-2: Nanotherapeutics Approach in Cancer Therapy Figure 3-3: Nanotherapeutics Approach for Diabetes Treatment Figure 3-4: Rheumatoid Arthritis Treatment by Nanotherapeutics Figure 4-1: Abraxane - Market Price (US\$ per Unit Injection) & Patent Expiration Year Figure 4-2: Cytarabine - Market Price for 20 mg/ml & 100 mg/ml (US\$) Figure 4-3: Doxil & Doxorubicin - Price of Intravenous Solution (US\$) Figure 4-4: Margibo - Price of Intravenous Solution (US\$) & Patent Expiration Year Figure 4-5: Neulasta - Price for 6 mg/ 0.6 ml & Per Unit Cost (US\$) Figure 4-6: Oncospar - Price for 750 Units/ml & for Per Unit Cost (US\$) Figure 4-7: Zevalin - Price of Intravenous Solution (US\$) & Patent Expiration Year Figure 5-1: Mechanism of Action of MM-302 Figure 5-2: Mechanism of Action of Thermodox & its Mechanical Release Figure 5-3: Future Development of CPX-351 Figure 5-4: Outsourcing for BIND-014 Clinical Supplies Figure 5-5: Structure of NK-012 & Release of SN-38 from NK-012 Figure 5-6: Design of a Clinical Trial for CRLX-101 Figure 6-1: Global - Nanomedicine Market (US\$ Billion), 2016-2022 Figure 7-1: Sales of Nano Chemotherapeutic Sales (US\$, Million), 2016 Figure 7-2: Nano Chemotherapeutics Companies Sales Revenue (US\$, Million), 2015 Figure 7-3: Global - Cancer Nanoparticle Pipeline by Phase (%), 2016 till 2022 Figure 7-4: Global - Cancer Nanoparticle Pipeline by Phase (Numbers), 2016 till 2022 Figure 7-5: Global - Cancer Nanoparticle Pipeline by Phase (%),2016 till 2022 Figure 7-6: Global - Cancer Nanoparticle Pipeline by Phase (Numbers), 2016 till 2022 Figure 8-1: Favorable Parameters to Nano Chemotherapeutic Market Figure 8-2: Challenges to Nano chemotherapeutics Market Growth

Figure 9-1: Future Development Opportunities of Nanomedicine



List Of Tables

LIST OF TABLES

Table 3-1: Adverse Reactions with ? 5% Higher Incidence in Neulasta Patients Compared to Placebo



I would like to order

Product name: Global Nano Chemotherapy Market & Clinical Trials Outlook 2022 Product link: <u>https://marketpublishers.com/r/GCFB167B393EN.html</u>

> Price: US\$ 1,500.00 (Single User License / Electronic Delivery) If you want to order Corporate License or Hard Copy, please, contact our Customer Service: info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <u>https://marketpublishers.com/r/GCFB167B393EN.html</u>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name: Last name: Email: Company: Address: City: Zip code: Country: Tel: Fax: Your message:

**All fields are required

Custumer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <u>https://marketpublishers.com/docs/terms.html</u>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970