

# Global Nanoparticle Drug Delivery Market, Dosage, Price and Clinical Pipeline Outlook 2028

<https://marketpublishers.com/r/G240E59BDD6EN.html>

Date: March 2022

Pages: 933

Price: US\$ 3,600.00 (Single User License)

ID: G240E59BDD6EN

## Abstracts

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

Global Nanoparticle Drug Delivery Market, Dosage, Price and Clinical Pipeline Outlook 2028 Report Highlights:

Global Nanoparticle Drug Delivery Market Opportunity > USD 300 Billion by 2028

Nanoparticle Drug Deliver Price & Dosage Insight By Therapeutic: Cancer, Anemia, Autoimmune Diseases, Neurological Disorders

Global Nanoparticle Drug Market Regional Analysis: US, Europe, China, Japan, India, Taiwan, South Korea, Canada

Nanoparticle Therapeutics Approved Drugs Sales Insight: 15 Drugs

Nanoparticle Therapeutics Approved Drugs Sales Forecast 2028: 15 Drugs

Global Nanoparticle Drugs Clinical Pipeline Insight By Phase, Company & Indication: > 400 Drugs

Nanoparticle Drug Delivery - Market Trend & Patent Distribution Analysis

During the last few decades, there has been enormous development in the field of delivery systems to provide therapeutic agents or natural based active compounds to

the target location for the management of several diseases. Several drug delivery approaches have been successfully employed in recent times, however there are still certain challenges that need to be addresses and an advanced technology need to be developed for successful delivery of drugs to its target sites. In order to overcome these challenges, the nanoparticle based drug delivery systems are currently been studied that will facilitate the advanced system of drug delivery.

Nanoparticle drug delivery is the emerging branch which utilizes nanotechnology in the prevention and treatment of various diseases using the nanoscale materials, such as biocompatible nanoparticles and nanorobots for delivery of drug to target location. Several biopolymeric nanoparticles can be utilized for drug delivery systems such as chitosan, xanthum gum, cellulose, liposome, dendrimers, and others. Liposome drug delivery approach is one of the most promising approaches and held the maximum share in the global nanoparticle drug delivery market.

Companies in the liposome drug delivery market are increasing their focus on drug delivery nanosystems involving major antiviral classes and their transport across specific barriers at cellular and intracellular levels. Thus, liposomes hold promising potentials in ongoing research studies being carried out by healthcare companies for the treatment of coronavirus. Further, several pharmaceutical companies have also entered into collaboration or partnerships to drive this segment in forecast period. For instance, Encapsula NanoSciences has extensive collaboration with academic research laboratories and is currently working with synthetic chemists and cancer biologists at a major university in the development of new anti-tumor compounds that require a liposome delivery system to be dosed in vivo. Moreover, Lipella Pharmaceuticals Inc. has been funded by the National Institutes of Health Small Business Innovation and Research (SBIR) to develop intravesical liposome nanoparticles to treat overactive bladder (OAB), interstitial cystitis/painful bladder syndrome (IC/PBS).

Apart from oral drugs, researchers have also expanded the idea of nanotechnology towards vaccine development. So far, two nanoparticle formulated, mRNA based COVID-19 vaccines have been developed, clinically tested and marketed during the ongoing pandemic. These vaccines are BNT162b2 by Pfizer/BioNTech and mRNA-1273 by Moderna. Apart from this, two vaccines are present under development such as NVX-CoV2373 vaccine (Novavax).

Further to mitigate the high cost associated with nanoparticle drugs, the research is also directed towards the development of cost-effective nanoparticle based generic drugs. The generic nanoparticle drug has also seen substantial rise in production as they are

less expensive than branded and do not require extensive research and testing. Several pharmaceutical companies including Mylan, Teva, Actavis, Lupin Laboratories, Sun Pharma, and others have launched their generic versions in the market, which have shown high acceptance.

As per our report findings, the global nanoparticle drug delivery market is expected to surpass US\$ 300 Billion by 2028. The market has high potential for growth which is attributed to the increasing number of patients suffering from chronic diseases, increasing research and development spending by pharmaceutical giants in the region with a robust clinical pipeline of nanoparticle drug delivery systems. In addition, the rising disposable population leading to increasing awareness towards health and lifestyle is also likely to propel the market growth. Further, the availability of wide range of generic drugs which increasing the accessibility among general population also propels the growth of market during the forecast period.

The report Nanoparticle drug delivery market provides comprehensive analysis on the commercially available nanomedicines along with their price, dosage, generic availability, and sales analysis. Moreover, in-depth analysis on the ongoing clinical trials in the report is also included in the report. Further, key players and their strategies are thoroughly analyzed to provide competitive outlook to the industry.

## Contents

### **1. NANOPARTICLES – NEW ERA OF DRUG DELIVERY METHODOLOGY**

- 1.1 Targeted Drug Delivery by Nanoparticles
- 1.2 Enhancing the Therapeutics Efficacy

### **2. NEED FOR NANOPARTICLE DRUG DELIVERY**

- 2.1 Limitations of Traditional Drug Delivery Techniques
- 2.2 Rising Demand for Better Targeted Drug Delivery Techniques in the Oncology Segment
- 2.3 Better Therapeutic Outcome than Conventional Drug Delivery Methods

### **3. IMPORTANCE OF NANOPARTICLE DRUG DELIVERY IN CANCER THERAPY**

- 3.1 Wide Application of Nanoparticles in Cancer Therapy
- 3.2 Mechanisms of Nanoparticle Internalization in Cancer Cells for Imaging & Therapy
- 3.3 Role of Nanoparticles in Better Diagnosis of Cancer

### **4. NANOPARTICLE DRUG DELIVERY TECHNIQUES**

- 4.1 Nanocrystals
- 4.2 Liposomes
- 4.3 Dendrimers
- 4.4 Micelle Based Drug Delivery
- 4.5 Polymeric Nanoparticles
- 4.6 Metal Based Nanoparticles (Gold, iron oxide)
- 4.7 Fullerenes & Carbon Nanotube
- 4.8 Quantum Dots Delivery

### **5. GLOBAL NANOPARTICLE DRUG MARKET OVERVIEW**

- 5.1 Current Market Scenario
- 5.2 Future Market Opportunity

### **6. GLOBAL NANOPARTICLE DRUG MARKET REGIONAL ANALYSIS**

- 6.1 US
- 6.2 Europe
- 6.3 China
- 6.4 Japan
- 6.5 India
- 6.6 Taiwan
- 6.7 South Korea
- 6.8 Canada

## **7. GLOBAL NANOPARTICLE DRUG MARKET BY INDICATION**

- 7.1 Oncology
- 7.2 Autoimmune Diseases
- 7.3 Iron Deficiency Anemia
- 7.4 Neurological Disorders

## **8. CANCER NANOPARTICLE THERAPEUTICS - PRICE & DOSAGE INSIGHT**

- 8.1 Liposomal Doxorubicin
- 8.2 Paclitaxel Protein-Bound
- 8.3 Megace ES (Enhanced Stability)
- 8.4 Vyxeos (Cytarabine and Daunorubicin)
- 8.5 Marqibo
- 8.6 Oncaspar (Pegaspargase)
- 8.7 Onivyde
- 8.8 Cynviloq
- 8.9 Hensify
- 8.10 Paclical
- 8.11 Mepact
- 8.12 Lipusu
- 8.13 Eligard

## **9. ANEMIA NANOPARTICLE THERAPEUTICS - PRICE & DOSAGE INSIGHT**

- 9.1 Ferumoxytol (Feraheme)
- 9.2 Injectafer (Ferric Carboxymaltose)
- 9.3 Venofer
- 9.4 Ferrlecit
- 9.5 Infed

9.6 Mircera

## **10. AUTOIMMUNE DISEASES NANOPARTICLE THERAPEUTICS - PRICE & DOSAGE INSIGHT**

- 10.1 Copaxone (Glatiramer)
- 10.2 Cimzia
- 10.3 Plegridy (Peginterferon beta-1a)
- 10.4 Krystexxa (Pegloticase)
- 10.5 Zilretta (Triamcinolone Acetonide)

## **11. NEUROLOGICAL DISORDERS NANOPARTICLE THERAPEUTICS - PRICE & DOSAGE INSIGHT**

- 11.1 Onpattro (Patisiran)
- 11.2 Visudyne (Verteporfin)

## **12. PRICE & DOSAGE ANALYSIS OF COMMERCIALY AVAILABLE OTHER NANOPARTICLE THERAPEUTICS**

- 12.1 Amphotericin B Liposomal
- 12.2 Rapamune
- 12.3 Emend (Aprepitant Nanocrystal)
- 12.4 Triglide – Nanocrystal Version of Tricor
- 12.5 Neulasta
- 12.6 Ritalin (Methylphenidate)
- 12.7 Renagel (Sevelamer)
- 12.8 Abelcet
- 12.9 Somavert (Pegvisomant)
- 12.10 Rebinyn/Refixia
- 12.11 Invega (Paliperidone)

## **13. GLOBAL NANOPARTICLE THERAPEUTICS APPROVED DRUGS – SALES ANALYSIS & FORECAST TILL 2028**

- 13.1 Ambisome
- 13.2 Abraxane
- 13.3 Vyxeos
- 13.4 Onpattro

- 13.5 Neulasta
- 13.6 Somavert
- 13.7 Zilretta
- 13.8 Copaxone
- 13.9 Mircera
- 13.10 Injectafer
- 13.11 Venofer
- 13.12 Onivyde
- 13.13 Cimzia
- 13.14 Plegridy
- 13.15 Krystexxa

## **14. GLOBAL NANOPARTICLE DRUG CLINICAL TRIAL INSIGHTS**

- 14.1 By Status
- 14.2 By Phase
- 14.3 By Region

## **15. GLOBAL NANOPARTICLE DRUGS CLINICAL PIPELINE INSIGHT BY PHASE, COMPANY & INDICATION**

- 15.1 Research
- 15.2 Preclinical
- 15.3 Clinical
- 15.4 Phase-I
- 15.5 Phase-I/II
- 15.6 Phase-II
- 15.7 Phase-II/III
- 15.8 Phase-III
- 15.9 Registered

## **16. MARKETED NANOPARTICLES DRUG CLINICAL INSIGHT**

## **17. NANOPARTICLE DRUG DELIVERY MARKET DYNAMICS**

- 17.1 Driving Factors of Nanoparticle Drug Delivery Market
- 17.2 Challenging Aspects of Nanoparticle Drug Delivery Segment

## **18. COMPETITIVE LANDSCAPE**

- 18.1 AbbVie
- 18.2 Amgen
- 18.3 Alnylam Pharmaceuticals
- 18.4 Arrowhead Pharmaceuticals
- 18.5 BioGen
- 18.6 Bristol Myers Squibb
- 18.7 Clene Nanomedicine
- 18.8 Horizon Therapeutics
- 18.9 Merck
- 18.10 Nanobiotix
- 18.11 Nanospectra Biosciences
- 18.12 Novartis
- 18.13 Pfizer
- 18.14 Tandem Nano



## List Of Figures

### LIST OF FIGURES

- Figure 1-1: Evolution of Nanoparticle Drug Delivery
- Figure 1-2: Different Drug Delivery Routes
- Figure 1-3: Organic Nanoparticles Used in Drug Delivery
- Figure 2-1: Limitations of Traditional Drug Delivery Therapy
- Figure 2-2: Superior Characteristic of Nanoparticle Drug Delivery
- Figure 3-1: Inorganic Nanoparticles Used in Drug Delivery
- Figure 3-2: Application of Nanoparticles in Diagnosis
- Figure 4-1: Nanoparticles Market Segmentation by Types
- Figure 4-2: Liposome Drug Delivery in Action
- Figure 4-3: Dendrimer Nanoparticle in Drug Delivery
- Figure 4-4: Gold Nanoparticles in Drug Delivery
- Figure 4-5: Fullerenes Being Used as Vectors (Carrying Agents)
- Figure 4-6: Quantum Dots in Cancer Therapy
- Figure 5-1: Global – Nnaoparticle Drug Market Size (US\$ Billion), 2020 & 2021
- Figure 5-2: Global – Nnaoparticle Drug Market Size by Region (US\$ Billion), 2021
- Figure 5-3: Global – Nnaoparticle Drug Market Size by Region (%), 2021
- Figure 5-4: Global – Nanoparticle Drug Market Size (US\$ Million), 2022 - 2028
- Figure 6-1: US vs. ROW – Nanoparticle Drug Market Size (US\$ Billion), 2021
- Figure 6-2: US vs. ROW – Nanoparticle Drug Market Size (US\$ Billion), 2021
- Figure 6-3: US – Nanoparticle Drug Market Size (US\$ Billion), 2022 - 2028
- Figure 6-4: Europe vs. ROW – Nanoparticle Drug Market Size (US\$ Billion), 2021
- Figure 6-5: Europe vs. ROW – Nanoparticle Drug Market Size (US\$ Billion), 2021
- Figure 6-6: Europe – Nanoparticle Drug Market Size (US\$ Billion), 2022 - 2028
- Figure 6-7: China vs. ROW – Nanoparticle Drug Market Size (US\$ Billion), 2021
- Figure 6-8: China vs. ROW – Nanoparticle Drug Market Size (US\$ Billion), 2021
- Figure 6-9: China – Nanoparticle Drug Market Size (US\$ Billion), 2022 - 2028
- Figure 6-10: Japan vs. ROW – Nanoparticle Drug Market Size (US\$ Billion), 2021
- Figure 6-11: Japan vs. ROW – Nanoparticle Drug Market Size (US\$ Billion), 2021
- Figure 6-12: Japan – Nanoparticle Drug Market Size (US\$ Billion), 2022 - 2028
- Figure 6-13: India vs. ROW – Nanoparticle Drug Market Size (US\$ Billion), 2021
- Figure 6-14: India vs. ROW – Nanoparticle Drug Market Size (US\$ Billion), 2021
- Figure 6-15: India – Nanoparticle Drug Market Size (US\$ Billion), 2022 - 2028
- Figure 6-16: Taiwan – Nanoparticle Drug Market Size (US\$ Billion), 2021 - 2028
- Figure 6-17: South Korea vs. ROW – Nanoparticle Drug Market Size (US\$ Billion), 2021
- Figure 6-18: South Korea vs. ROW – Nanoparticle Drug Market Size (US\$ Billion), 2021

- Figure 6-19: South Korea – Nanoparticle Drug Market Size (US\$ Billion), 2022 - 2028
- Figure 6-20: Canada vs. ROW – Nanoparticle Drug Market Size (US\$ Billion), 2021
- Figure 6-21: Canada vs. ROW – Nanoparticle Drug Market Size (US\$ Billion), 2021
- Figure 6-22: Canada – Nanoparticle Drug Market Size (US\$ Billion), 2022 - 2028
- Figure 7-1: Global – Cancer Incidences & Deaths (Million), 2020
- Figure 7-2: Global – Cancer Nanoparticle Drug Market Size (US\$ Billion), 2021 - 2028
- Figure 7-3: Global – Autoimmune Disease Nanoparticle Drug Market Size (US\$ Billion), 2021 - 2028
- Figure 7-4: Global – Iron Deficiency Anemia Nanoparticle Drug Market Size (US\$ Billion), 2021 - 2028
- Figure 7-5: Global – Neurological Disease Nanoparticle Drug Market Size (US\$ Billion), 2021 - 2028
- Figure 8-1: Doxorubicin Liposomal - Approval Year by Region
- Figure 8-2: US - Doxil FDA Approval & First Generic Approval Year
- Figure 8-3: Doxil - Cost of 10ml & Per Unit Cost of 2mg/ml Intravenous Dispersion (US\$), February'2022
- Figure 8-4: Doxil - Cost of 25ml & Per Unit Cost of 2mg/ml Intravenous Dispersion (US\$), February'2022
- Figure 8-5: Liposomal Doxorubicin - Cost of 10ml & Per Unit Cost of 2mg/ml Intravenous Dispersion (US\$), February'2022
- Figure 8-6: Liposomal Doxorubicin - Cost of 25ml & Per Unit Cost of 2mg/ml Intravenous Dispersion (US\$), February'2022
- Figure 8-7: Doxil- Dosage analysis for Ovarian Cancer (mg/m<sup>2</sup>)
- Figure 8-8: Doxil - Dosage Analysis for Kaposi's sarcoma
- Figure 8-9: Liposomal Doxorubicin - Dosage Analysis in Multiple Myeloma
- Figure 8-10: US - Abraxane FDA Approval & Patent Expiration Year
- Figure 8-11: Europe - Abraxane EMA Approval & Patent Expiration Year
- Figure 8-12: US - Abraxane FDA Approval by Indication
- Figure 8-13: UK – Cost of Supply of Abraxane 100mg Powder for Injection (GBP/US\$), February'2022
- Figure 8-14: Abraxane – Cost of Supply of 100mg Powder for Injection by Region (US\$), February'2022
- Figure 8-15: Abraxane - Recommended Dose (mg/m<sup>2</sup>) by Cancer Types
- Figure 8-16: Dosage Analysis - Megace v/s Megace ES (mg/day)
- Figure 8-17: US – Megace ES Approval & First Generic Approval Year
- Figure 8-18: US – Megace ES Patent Approval & Expiration Year
- Figure 8-19: Megace ES - Cost of 150ml & Per Unit Cost of 625mg/5ml Oral Suspension (US\$), February'2022
- Figure 8-20: Vyxeos – FDA Approval Year by Indication

Figure 8-21: Vyxeos - Approval Year by Region

Figure 8-22: Vyxeos – Patent Expiration by Region

Figure 8-23: Vyxeos - Cost of 2 Powders & Per Unit Cost of 100mg-44mg Intravenous Powder (US\$), February'2022

Figure 8-24: Vyxeos - Cost of 5 Powders & Per Unit Cost of 100mg-44mg Intravenous Powder (US\$), February'2022

Figure 8-25: UK – Cost of Supply of Vyxeos 100mg Powder for Injection (GBP/US\$), February'2022

Figure 8-26: Vyxeos - Recommended Dose of Induction & Consolidation Cycle (mg/m<sup>2</sup>)

Figure 8-27: Marqibo - Cost of Single Cycle, Monthly & Annual Treatment Cost (US\$), February'2022

Figure 8-28: Oncaspar - Approval Year by Region

Figure 8-29: US - Cost of 5ml & Per Unit Cost of Oncaspar Injectable Solution (US\$), February'2022

Figure 8-30: Oncaspar - Recommended Dose by Age (Units/m<sup>2</sup>)

Figure 8-31: US - Onivyde FDA Approval & Patent Expiration Year

Figure 8-32: Europe - Onivyde EMA Approval & Patent Expiration Year

Figure 8-33: US - Cost of 10ml & Per Unit Cost of Onivyde 4.3mg/ml Intravenous Dispersion (US\$), February'2022

Figure 8-34: UK - Cost of 10ml & Per Unit Cost of Onivyde 4.3mg/ml Intravenous Dispersion (GBP/US\$), February'2022

Figure 8-35: Onivyde - Cost of Single Cycle, Monthly & Annual Treatment Cost (US\$), February'2022

Figure 8-36: India - Genexol PM Cost of 100mg Injection (INR/US\$), February'2022

Figure 8-37: Paclical/Apealea - Approval Year by Region

Figure 8-38: Apealea/Paclical - Recommended Standard Dose & Dose Reductions (mg/m<sup>2</sup>)

Figure 8-39: UK – Cost of 4mg Mepact Powde (GBP/US\$), February'2022

Figure 8-40: Mepact - Cost of Single Cycle & Treatment Cost (GBP/US\$), February'2022

Figure 8-41: Eligard – Price for Supply of Subcutaneous Powder by Strength (US\$), February'2022

Figure 9-1: US – Ferraheme Approval & First Generic Approval Year

Figure 9-2: US - Ferraheme Patent Approval & Expiration Year

Figure 9-3: Ferraheme - Cost of 17ml & Per Unit Cost of 30mg/ml Intravenous Solution (US\$), February'2022

Figure 9-4: Ferraheme - Cost of 170ml & Per Unit Cost of 30mg/ml Intravenous Solution (US\$), February'2022

Figure 9-5: Ferumoxytol - Cost of 17ml & Per Unit Cost of 30mg/ml Intravenous Solution

(US\$), February'2022

Figure 9-6: US – Injectafer Patent Approval & Expiration Year

Figure 9-7: US - Cost of 15ml & Per Unit Cost of Injectafer 50mg/ml Intravenous Solution (US\$), February'2022

Figure 9-8: US - Cost of 25ml & Per Unit Cost of Venofer 20mg/ml Intravenous Solution (US\$), February'2022

Figure 9-9: US - Cost of 50ml & Per Unit Cost of Venofer 20mg/ml Intravenous Solution (US\$), February'2022

Figure 9-10: US - Cost of 125ml & Per Unit Cost of Venofer 20mg/ml Intravenous Solution (US\$), February'2022

Figure 9-11: UK - Cost of 5 Vials & Per Unit Cost of Venofer 100mg/5ml Solution (GBP/US\$), February'2022

Figure 9-12: Venofer – Recommended Initial Dose by Indication (mg)

Figure 9-13: Ferrlecit - Cost of 50ml & Per Unit Cost of 12.5mg/ml Intravenous Solution (US\$), February'2022

Figure 9-14: Sodium Ferric Gluconate - Cost of 50ml & Per Unit Cost of 12.5mg/ml Intravenous Solution (US\$), February'2022

Figure 9-15: Ferrlecit – Minimum & Maximum Recommended Dose for Adult Patients (mg)

Figure 9-16: Infed - Cost of 20ml & Per Unit Cost of 50mg/ml Intravenous Solution (US\$), February'2022

Figure 9-17: US – Mircera FDA Approval Year by Indication

Figure 9-18: US- Cost of 0.3ml & Per Unit Cost of Mircera 30mcg Intravenous Solution (US\$), February'2022

Figure 9-19: US- Cost of 0.3ml & Per Unit Cost of Mircera 50mcg Intravenous Solution (US\$), February'2022

Figure 9-20: US- Cost of 0.3ml & Per Unit Cost of Mircera 75mcg Intravenous Solution (US\$), February'2022

Figure 9-21: US- Cost of 0.3ml & Per Unit Cost of Mircera 100mcg Intravenous Solution (US\$), February'2022

Figure 9-22: US- Cost of 0.3ml & Per Unit Cost of Mircera 150mcg Intravenous Solution (US\$), February'2022

Figure 9-23: US- Cost of 0.3ml & Per Unit Cost of Mircera 200mcg Intravenous Solution (US\$), February'2022

Figure 9-24: UK - Cost of Supply of 30 Somavert Subcutaneous Powders by Strength (GBP/US\$), February'2022

Figure 10-1: Copaxone – FDA Orphan Designation Year by Indication

Figure 10-2: Copaxone – FDA Approval & 1st Generic Approval Year

Figure 10-3: Copaxone – Price for 30ml Supply & Price Per ml of 20mg/ml

Subcutaneous Solution (US\$), February'2022

Figure 10-4: Copaxone – Price for 12ml Supply & Price Per ml of 40mg/ml

Subcutaneous Solution (US\$), February'2022

Figure 10-5: Cimzia – FDA Approval Year by Indication

Figure 10-6: Cimzia - Approval Year by Region

Figure 10-7: US - Cimzia FDA Approval Year & Patent Expiration

Figure 10-8: UK - Cost of 2 Cartridges & Per Unit Cost of Cimzia 200mg/ml Solution (GBP/US\$), February'2022

Figure 10-9: Plegridy – FDA Approval Year by Administration

Figure 10-10: US - Plegridy FDA Approval & Patent Expiration Year

Figure 10-11: Europe - Plegridy EMA Approval & Patent Expiration Year

Figure 10-12: UK - Cost of 2 Injections & Per Unit Cost of Plegridy 125mg Injection (GBP/US\$), February'2022

Figure 10-13: Plegridy – Recommended Subcutaneous Dose for Multiple Sclerosis (mg)

Figure 10-14: US - Krystexxa FDA Approval & Patent Expiration Year

Figure 10-15: Krystexxa - Cost of Single Cycle, Monthly & Annual Treatment Cost (US\$), February'2022

Figure 10-16: US – Zilretta Patent Issue & Expiration Year

Figure 11-1: Onpattro - Approval Year by Region

Figure 11-2: US – Onpattro Patent Approval & Expiration Year

Figure 11-3: US - Cost of 5ml & Per Unit Cost of Onpattro Intravenous Solution (US\$), February'2022

Figure 11-4: UK - Cost of 5ml & Per Unit Cost of Onpattro Intravenous Solution (GBP/US\$), February'2022

Figure 11-5: UK – Cost of Supply of Visudyne 15mg Powder for Injection (GBP/US\$), February'2022

Figure 11-6: Visudyne – Cost of Supply of 15mg Powder for Injection by Region (US\$), February'2022

Figure 12-1: Amphotericin B – Availability by Concentration (mg/vial)

Figure 12-2: Conventional Amphotericin B- Dosage Analysis for Adult Fungal Infections (mg/kg)

Figure 12-3: Amphotericin B - Dosage Analysis in Pediatric Fungal Infection (mg/kg)

Figure 12-4: Liposomal Amphotericin B- Dosage Analysis by Indication (mg/kg)

Figure 12-5: US - Rapamune FDA Approval & First Generic Approval Year

Figure 12-6: Rapamune - Cost of 60ml & Per Unit Cost of 1mg/ml Oral Solution (US\$), February'2022

Figure 12-7: Rapamune - Cost of 100 Tablets & Per Unit Cost of 0.5mg Oral Tablet (US\$), February'2022

Figure 12-8: Rapamune - Cost of 100 Tablets & Per Unit Cost of 1mg Oral Tablet

(US\$), February'2022

Figure 12-9: Rapamune - Cost of 100 Tablets & Per Unit Cost of 2mg Oral Tablet

(US\$), February'2022

Figure 12-10: Sirolimus - Cost of 60ml & Per Unit Cost of 1mg/ml Oral Solution (US\$),  
February'2022

Figure 12-11: Sirolimus - Cost of 100 Tablets & Per Unit Cost of 0.5mg Oral Tablet  
(US\$), February'2022

Figure 12-12: Sirolimus - Cost of 100 Tablets & Per Unit Cost of 1mg Oral Tablet (US\$),  
February'2022

Figure 12-13: Sirolimus - Cost of 100 Tablets & Per Unit Cost of 2mg Oral Tablet (US\$),  
February'2022

Figure 12-14: Rapamune - Dosage for Low Immune Risk Patients (mg)

Figure 12-15: Rapamune - Dosage for High Immunologic Risk (mg)

Figure 12-16: Emend - Approval Year by Region

Figure 12-17: US - Emend Approval & First Generic Approval Year

Figure 12-18: Emend - Cost of 2 Capsules & Per Unit Cost of 80mg Oral Capsule  
(US\$), February'2022

Figure 12-19: Emend - Cost of 3 Kits & Per Unit Cost of 125mg-80mg Kit (US\$),  
February'2022

Figure 12-20: UK - Cost of 2 Capsules & Per Unit Cost of Emend 80mg Oral Capsule  
(GBP/US\$), February'2022

Figure 12-21: UK - Cost of 5 Capsules & Per Unit Cost of Emend 125mg Oral Capsule  
(GBP/US\$), February'2022

Figure 12-22: Emend - Recommended Dosing for the Prevention of Nausea and  
Vomiting in Adult Patients (mg/day)

Figure 12-23: Emend - Recommended Dosing for the Prevention of Nausea and  
Vomiting in Pediatric Patients (mg/kg)

Figure 12-24: Emend – Maximum Recommended Dosing for the Prevention of Nausea  
and Vomiting in Pediatric Patients (mg/kg)

Figure 12-25: Triglide - Cost of 30 Tablets & Per Unit Cost of 50mg Oral Tablet (US\$),  
February'2022

Figure 12-26: Triglide - Cost of 30 Tablets & Per Unit Cost of 160mg Oral Tablet (US\$),  
February'2022

Figure 12-27: Triglide - Cost of 15 Tablets & Per Unit Cost of 160mg Oral Tablet (US\$),  
February'2022

Figure 12-28: US - Cost of 0.6ml & Per Unit Cost of Neulasta Subcutaneous Solution  
(US\$), February'2022

Figure 12-29: UK – Cost of 6mg/0.6ml Neulasta Subcutaneous Solution (GBP/US\$),  
February'2022

- Figure 12-30: Neulasta – Recommended Dosage by Weight (mg)
- Figure 12-31: US - Ritalin FDA Approval & First Generic Approval Year
- Figure 12-32: Ritalin - Cost of 100 Tablets & Per Unit Cost of 5mg Oral Tablet (US\$), February'2022
- Figure 12-33: Ritalin - Cost of 100 Tablets & Per Unit Cost of 10mg Oral Tablet (US\$), February'2022
- Figure 12-34: Ritalin - Cost of 100 Tablets & Per Unit Cost of 20mg Oral Tablet (US\$), February'2022
- Figure 12-35: Methlyphenidate - Cost of Supply of 30, 100 & 500 5mg Oral Tablets (US\$), February'2022
- Figure 12-36: Methlyphenidate - Cost of Supply of 30, 50, 100 & 500 10mg Oral Tablets (US\$), February'2022
- Figure 12-37: Methlyphenidate - Cost of Supply of 50, 100 & 500 20mg Oral Tablets (US\$), February'2022
- Figure 12-38: Methlyphenidate – Recommended Initial & Maximum Dose for Adult Patients (mg)
- Figure 12-39: Methlyphenidate – Recommended Initial & Maximum Dose for Pediatric Patients (mg)
- Figure 12-40: Renagel - Approval Year by Region
- Figure 12-41: US - Renagel FDA Approval & First Generic Approval Year
- Figure 12-42: US - Cost of 180 Tablets & Per Unit Cost of Renagel 800mg Oral Tablet (US\$), February'2022
- Figure 12-43: UK - Cost of 180 Tablets & Per Unit Cost of Renagel 800mg Oral Tablet (GBP/US\$), February'2022
- Figure 12-44: US - Cost of 100 Tablets & Per Unit Cost of Sevelamer 800mg Oral Tablet (US\$), February'2022
- Figure 12-45: US - Cost of 180 Tablets & Per Unit Cost of Sevelamer 800mg Oral Tablet (US\$), February'2022
- Figure 12-46: Renagel – Recommended Initial Dose by Serum Phosphorus Levels (mg/day)
- Figure 12-47: Abelcet - Cost of 20ml & Per Unit Cost of 5mg/ml Intravenous Solution (US\$), February'2022
- Figure 12-48: Somavert - Approval Year by Region
- Figure 12-49: US - Per Unit Cost of Somavert Subcutaneous Powder by Strength (US\$), February'2022
- Figure 12-50: US - Cost of Supply of 30 Somavert Subcutaneous Powders by Strength (US\$), February'2022
- Figure 12-51: UK - Cost of Supply of 30 Somavert Subcutaneous Powders by Strength (GBP/US\$), February'2022

Figure 12-52: Somavert – Recommended Minimum & Maximum Daily Dosage (mg/day)

Figure 12-53: Rebinyn/Refixia- Patent Exclusivity by Region

Figure 12-54: UK - Cost of Supply of Refixia Subcutaneous Powders by Strength (GBP/US\$), February'2022

Figure 12-55: Rebinyn – Recommended Dosage by Type of Bleeding (IU/KG)

Figure 12-56: Invega - Approval Year by Region

Figure 12-57: US - Renagel FDA Approval & First Generic Approval Year

Figure 12-58: US - Cost of 30 Tablets & Per Unit Cost of Invega 1.5mg, 3mg, & 6mg Oral Extended Release Tablet (US\$), February'2022

Figure 12-59: US - Cost of 30 Tablets & Per Unit Cost of Invega 9mg Oral Extended Release Tablet (US\$), February'2022

Figure 12-60: UK - Cost of 28 Tablets & Per Unit Cost of Invega 3mg & 6mg Oral Extended Release Tablet (GBP/US\$), February'2022

Figure 12-61: UK - Cost of 28 Tablets & Per Unit Cost of Invega 9mg Oral Extended Release Tablet (GBP/US\$), February'2022

Figure 12-62: Invega – Recommended Initial Dosage for Schizophrenia by Age (mg/day)

Figure 12-63: Invega – Recommended Initial & Maximum Dosage for Schizophrenia in Adults (mg/day)

Figure 13-1: Global – Ambisome Annual Sales (US\$ Million), 2018 - 2021

Figure 13-2: Europe – Ambisome Annual Sales (US\$ Million), 2018 - 2021

Figure 13-3: US – Ambisome Annual Sales (US\$ Million), 2018 - 2021

Figure 13-4: ROW – Ambisome Annual Sales (US\$ Million), 2018 - 2021

Figure 13-5: Ambisome – Annual Sales by Region (US\$ Million), 2021

Figure 13-6: Ambisome – Annual Sales by Region (%), 2021

Figure 13-7: Global – Ambisome Quaterly Sales (US\$ Million), 2021

Figure 13-8: Global – Ambisome Quaterly Sales (US\$ Million), 2020

Figure 13-9: Global – Ambisome Sales Forecast (US\$ Million), 2022 - 2028

Figure 13-10: US – Ambisome Sales Forecast (US\$ Million), 2022 - 2028

Figure 13-11: Europe – Ambisome Sales Forecast (US\$ Million), 2022 - 2028

Figure 13-12: Global – Abraxane Annual Sales (US\$ Million), 2019 - 2021

Figure 13-13: US – Abraxane Annual Sales (US\$ Million), 2019 - 2021

Figure 13-14: Abraxane - Annual Sales by Region (US\$ Million), 2021

Figure 13-15: Abraxane - Annual Sales by Region (%), 2021

Figure 13-16: Global – Abraxane Quaterly Sales (US\$ Million), 2021

Figure 13-17: Global – Abraxane Quaterly Sales (US\$ Million), 2020

Figure 13-18: US – Abraxane Quaterly Sales (US\$ Million), 2021

Figure 13-19: US – Abraxane Quaterly Sales (US\$ Million), 2020

Figure 13-20: Global – Abraxane Sales Forecast (US\$ Million), 2022 - 2028



- Figure 13-21: US – Abraxane Sales Forecast (US\$ Million), 2022 - 2028
- Figure 13-22: Global – Vyxeos Quaterly Sales (US\$ Million), Q1-Q3'2021
- Figure 13-23: Global – Vyxeos 9 Months Sales (US\$ Million), 2020 & 2021
- Figure 13-24: Global – Vyxeos Annual Sales (US\$ Million), 2019 & 2020
- Figure 13-25: Global – Vyxeos Quaterly Sales (US\$ Million), 2020
- Figure 13-26: Global – Vyxeos Sales Forecast (US\$ Million), 2022 - 2028
- Figure 13-27: Global – Onpattro Annual Sales (US\$ Million), 2018 - 2021
- Figure 13-28: Global – Onpattro Quaterly Sales (US\$ Million), 2021
- Figure 13-29: Global – Onpattro Quaterly Sales (US\$ Million), 2020
- Figure 13-30: Global – Onpattro Sales Forecast (US\$ Million), 2022 - 2028
- Figure 13-31: Global – Neulasta Annual Sales (US\$ Million), 2018 - 2021
- Figure 13-32: US – Neulasta Annual Sales (US\$ Million), 2019 - 2021
- Figure 13-33: ROW – Neulasta Annual Sales (US\$ Million), 2019 - 2021
- Figure 13-34: Neulasta - Annual Sales by Region (US\$ Million), 2021
- Figure 13-35: Neulasta - Annual Sales by Region (%), 2021
- Figure 13-36: Global – Neulasta Quaterly Sales (US\$ Million), 2021
- Figure 13-37: Global – Neulasta Quaterly Sales (US\$ Million), 2020
- Figure 13-38: US – Neulasta Quaterly Sales (US\$ Million), 2021
- Figure 13-39: Global – Neulasta Sales Forecast (US\$ Million), 2022 - 2028
- Figure 13-40: US – Neulasta Sales Forecast (US\$ Million), 2022 - 2028
- Figure 13-41: Global – Somavert Annual Sales (US\$ Million), 2018 - 2021
- Figure 13-42: US – Somavert Annual Sales (US\$ Million), 2018 - 2021
- Figure 13-43: Europe – Somavert Annual Sales (US\$ Million), 2018 - 2021
- Figure 13-44: Somavert – Annual Sales by Region (US\$ Million), 2021
- Figure 13-45: Somavert – Annual Sales by Region (%), 2021
- Figure 13-46: Global – Somavert Quaterly Sales (US\$ Million), 2021
- Figure 13-47: Global – Somavert Quaterly Sales (US\$ Million), 2020
- Figure 13-48: US – Somavert Quaterly Sales (US\$ Million), 2021
- Figure 13-49: US – Somavert Quaterly Sales (US\$ Million), 2020
- Figure 13-50: Global – Somavert Sales Forecast (US\$ Million), 2022 - 2028
- Figure 13-51: US – Somavert Sales Forecast (US\$ Million), 2022 - 2028
- Figure 13-52: Europe – Somavert Sales Forecast (US\$ Million), 2022 - 2028
- Figure 13-53: ROW – Somavert Sales Forecast (US\$ Million), 2022 - 2028
- Figure 13-54: Global – Zilretta Quaterly Sales (US\$ Million), Q1 & Q2'2021
- Figure 13-55: Global – Zilretta Half Year Sales (US\$ Million), H1'2021 & H1'2020
- Figure 13-56: Global – Zilretta Quaterly Sales (US\$ Million), 2020
- Figure 13-57: Global – Zilretta Sales Forecast (US\$ Million), 2022 - 2028
- Figure 13-58: Global - Copaxone Sales Value (US\$ Billion), 2018 - 2021
- Figure 13-59: Global - Copaxone Sales by Region (US\$ Million), 2021

- Figure 13-60: Global - Copaxone Sales by Region (US\$ Million), 2020
- Figure 13-61: Global - Copaxone Sales by Region (%), 2021
- Figure 13-62: Global - Copaxone Sales by Region (%), 2020
- Figure 13-63: Global - Copaxone Sales Forecast (US\$ Million), 2022 - 2028
- Figure 13-64: US - Copaxone Sales Forecast (US\$ Million), 2022 - 2028
- Figure 13-65: Global – Mircera Annual Sales (CHF/US\$ Million), 2019 - 2021
- Figure 13-66: Global – Mircera Half Year Sales (CHF/US\$ Million), 2019 - 2021
- Figure 13-67: Global - Mircera Sales Forecast (US\$ Million), 2022 - 2028
- Figure 13-68: Global – Injectafer Annual Sales (CHF/US\$ Million), 2019 - 2021
- Figure 13-69: Global – Injectafer Half Year Sales (CHF/US\$ Million), 2019 - 2021
- Figure 13-70: Global – Injectafer Sales Forecast (US\$ Million), 2022 - 2028
- Figure 13-71: Global – Venofer Annual Sales (CHF/US\$ Million), 2019 - 2021
- Figure 13-72: Global – Venofer Half Year Sales (CHF/US\$ Million), 2019 - 2021
- Figure 13-73: Global – Venofer Sales Forecast (US\$ Million), 2022 - 2028
- Figure 13-74: Global – Onivyde Annual Sales (Euro/US\$ Million), 2018 - 2021
- Figure 13-75: Global – Onivyde Quaterly Sales (Euro/US\$ Million), 2021
- Figure 13-76: Global – Onivyde Quaterly Sales (Euro/US\$ Million), 2020
- Figure 13-77: Global – Onivyde Sales Forecast (US\$ Million), 2022 - 2028
- Figure 13-78: Global – Cimzia Half Year Sales (Euro/US\$ Million), 2020 & 2021
- Figure 13-79: Global – Cimzia Annual Sales (Euro/US\$ Million), 2019 & 2020
- Figure 13-80: Global – Cimzia Sales Forecast (US\$ Million), 2022 - 2028
- Figure 13-81: Global – Plegridy Annual Sales (US\$ Million), 2018 - 2021
- Figure 13-82: US – Plegridy Annual Sales (US\$ Million), 2020 & 2021
- Figure 13-83: Plegridy - Annual Sales by Region (US\$ Million), 2021
- Figure 13-84: Plegridy - Annual Sales by Region (%), 2021
- Figure 13-85: Global – Plegridy Quaterly Sales (US\$ Million), 2021
- Figure 13-86: US – Plegridy Quaterly Sales (US\$ Million), 2021
- Figure 13-87: Global – Plegridy Sales Forecast (US\$ Million), 2022 - 2028
- Figure 13-88: US – Plegridy Sales Forecast (US\$ Million), 2022 - 2028
- Figure 13-89: Global – Krystexxa Quaterly Sales (US\$ Million), Q1-Q3'2021
- Figure 13-90: Global – Krystexxa 9 Months Sales (US\$ Million), 2020 & 2021
- Figure 13-91: Global – Krystexxa Annual Sales (US\$ Million), 2019 & 2020
- Figure 13-92: Global – Krystexxa Quaterly Sales (US\$ Million), 2020
- Figure 13-93: Global – Krystexxa Sales Forecast (US\$ Million), 2022 - 2028
- Figure 14-1: Global Nanoparticle Drug – Number of Clinical Trials by Status, February'2021
- Figure 14-2: Global Nanoparticle Drug – Number of Clinical Trials by Status (%), February'2021
- Figure 14-3: Global Nanoparticle Drug – Number of Clinical Trials by Phase,

February'2021

Figure 14-4: Global Nanoparticle Drug – Number of Clinical Trials by Phase (%),  
February'2021

Figure 14-5: Global Nanoparticle Drug – Number of Clinical Trials by Region,  
February'2021

Figure 14-6: Global Nanoparticle Drug – Number of Clinical Trials by Region (%),  
February'2021

Figure 15-1: Global Nanoparticle Drug – Number of Clinical Trials by Phase,  
February'2021

Figure 17-1: Nanoparticle Drug Delivery - Driving Factors

Figure 17-2: Magnetic Nanoparticle - Recent Advances in Drug Delivery

Figure 17-3: Nanoparticle Drug Delivery Market Challenges

## I would like to order

Product name: Global Nanoparticle Drug Delivery Market, Dosage, Price and Clinical Pipeline Outlook 2028

Product link: <https://marketpublishers.com/r/G240E59BDD6EN.html>

Price: US\$ 3,600.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G240E59BDD6EN.html>

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**

Customer signature \_\_\_\_\_

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

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

