

Global Controlled Drug Delivery Market & Clinical Trial Outlook 2022

<https://marketpublishers.com/r/GCA209169E5EN.html>

Date: May 2017

Pages: 870

Price: US\$ 3,000.00 (Single User License)

ID: GCA209169E5EN

Abstracts

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

“Global Controlled Drug Delivery Market & Clinical Trial Outlook 2022” report gives comprehensive clinical and non-clinical insight on the emergence and integration of controlled release technology in the drug delivery. Report highlights the ongoing development of more than 300 controlled release drugs in clinical trials and helps to analyze the existing clinical mechanism of 133 commercially available controlled release drugs in the market. The fundamentals and application of controlled release drug delivery encapsulated in the report helps to identify the various aspect of the growing controlled release drug delivery market.

“Global Controlled Drug Delivery Market & Clinical Trial Outlook 2022” report highlights:

Evolution & Fundamentals of Controlled Drug Delivery

Mode of Action & Approaches of Controlled Drug Delivery

Global Controlled Release Drug Market Overview

Insight on Global Controlled Release Drug Clinical Pipeline

Clinical Insight on 303 Controlled Release Drug in Clinical Trials

Clinical, Patent & Technology insight of 133 Marketed Controlled Release Drugs

Controlled Release Drug Market Future Outlook

The pharmaceutical industry is on the edge of presenting a new generation of drugs and drug delivery systems that will have a major impact on health. There is a need for innovation and diverse solutions and that suggests a great need for diverse suppliers who can bring creativity and new perspectives to the research field and the pharmaceutical industry. Access to controlled drug delivery systems and devices can have a significant impact for drug manufacturers.

Controlled drug delivery technology is the one of the most rapidly advancing area in human healthcare management and already had an enormous impact on medical technology with the potential to improve health. As the goal of any drug delivery system is to provide a therapeutic amount of drug to a proper site in the body so that the desired drug concentration can be achieved promptly and then maintained, all these characteristics are provided by controlled drug delivery technologies.

It has been observed that the controlled drug delivery system offers a sustained drug action at a predetermined rate. The drug level in the body is maintained at a constant level in this system of delivery which leads to a reduction in the undesirable side effects. The controlled drug delivery system leads to localized drug action by the spatial placement of a controlled release system which is adjacent to or in the diseased tissue itself. This system offers a targeted treatment with the use of carriers or chemical derivatives in order to deliver drug to a particular target cell type. Also, the controlled drug delivery mechanism provides for a drug release system which is based on physiology or therapeutics. This implies that the amount of drugs released and the rate at which these drugs are released are highly dependent on the physiological or therapeutic demands of the body. This leads to the maintenance of safe and effective levels of blood in the body for duration which is taken by the system to deliver the drug.

The upcoming future potential for the controlled drug delivery will be outraging the conventional forms. In the future there will be several opportunities as developments are being made in order to provide the controlled drug delivery systems. With the advent of new technologies there will be a time when science would be providing the ideal drug delivery in a controlled manner. The all unmet needs of patients, physicians and payers are being promised for better treatments, controlled delivery systems with improved therapeutic profiles, increased patient compliance and enhanced bioavailability will be making the future bright for the controlled delivery products which would be able to provide successful treatment towards several diseases.

Contents

1. DRUG DELIVERY: AN ADVANCING TRAJECTORY

- 1.1 Preface Towards Drug Delivery
- 1.2 Idealism of Drug Delivery System

2. INTRODUCTION TO CONTROLLED DRUG DELIVERY

- 2.1 Novel Drug Delivery Systems
- 2.2 Preamble to Controlled Drug Delivery

3. EVOLUTION OF CONTROLLED DRUG DELIVERY

- 3.1 First Generation
- 3.2 Second Generation

4. FUNDAMENTALS OF CONTROLLED DRUG DELIVERY

- 4.1 Prerequisites of Controlled Delivery
- 4.2 Rationale for Controlled Drug Delivery

5. MECHANISM OF CONTROLLED DRUG RELEASE

- 5.1 Diffusion Controlled
- 5.2 Dissolution Controlled System
- 5.3 Water Penetration Controlled System
- 5.4 Erosion Controlled System
- 5.5 Ion-Exchange Controlled System

6. CATALOGING OF CONTROLLED DRUG DELIVERY

- 6.1 Classification Based Over Delivery Systems
- 6.2 Classification Based Over Technicality
- 6.3 Classification Based Over Routes

7. APPROACHES FOR CONTROLLED DRUG DELIVERY

- 7.1 Polymers

- 7.2 Chronopharmaceutics
- 7.3 Nanoparticulate Delivery System

8. GLOBAL CONTROLLED RELEASE DRUG CLINICAL PIPELINE OVERVIEW

- 8.1 Phase
- 8.2 Country/Region
- 8.3 Mode of Action
- 8.4 Drug class
- 8.5 Indication

9. APPLICATION OF CONTROLLED DRUG DELIVERY

- 9.1 Diabetes
- 9.2 Cancer
- 9.3 Cardiovascular Diseases
- 9.4 Neurological Disorders
- 9.5 Infections

10. DRUG DESIGNING FOR CONTROLLED DELIVERY

- 10.1 Enteral Dosage Formulations
 - 10.1.1 Solid Dosage Forms
 - 10.1.2 Liquid Dosage Forms
 - 10.1.3 Inhalation Dosage Forms
- 10.2 Parenteral Dosage Forms
 - 10.2.1 Injectable Dosage Forms
 - 10.2.2 Implantable Device
- 10.3 General Mechanisms of Drug Release

11. MARKET INCLINATIONS

- 11.1 Market over Routes of Administration
- 11.2 Market over Approaches

12. GLOBAL CONTROLLED DRUG DELIVERY MARKET DYNAMICS

- 12.1 Accelerative Parameters
- 12.2 Challenges

13. GLOBAL CONTROLLED DRUG DELIVERY MARKET FUTURE OUTLOOK

- 13.1 Ongoing Clinical Trials
- 13.2 Future Market Opportunities

14. GLOBAL CONTROLLED DRUG DELIVERY CLINICAL TRIALS BY COMPANY, INDICATION & PHASE

- 14.1 Unknown
- 14.2 Research
- 14.3 Preclinical
- 14.4 Clinical
- 14.5 Phase-I
- 14.6 Phase-I/II
- 14.7 Phase-II
- 14.8 Phase-II/III
- 14.9 Phase-III
- 14.10 Preregistration
- 14.11 Registered

15. MARKETED CONTROLLED RELEASE CLINICAL INSIGHT BY COMPANY, INDICATION & PHASE

16. COMPETITIVE LANDSCAPE

- 16.1 Allergan
- 16.2 Amylin Pharmaceuticals
- 16.3 AstraZeneca
- 16.4 BioAlliance Pharma
- 16.5 Biogen
- 16.6 Collegium Pharmaceutical
- 16.7 Controlled Therapeutics (Ferring Pharmaceuticals)
- 16.8 Cosmo Pharmaceuticals
- 16.9 Egalet
- 16.10 Elan Corporation
- 16.11 Encore Therapeutics
- 16.12 Flamel Technologies
- 16.13 GlaxoSmithKline

- 16.14 Heron Therapeutics
- 16.15 iCeutica
- 16.16 Mithra Pharmaceuticals
- 16.17 Neurim Pharmaceuticals
- 16.18 Novartis
- 16.19 Orexigen Therapeutics
- 16.20 Otsuka Pharmaceutical
- 16.21 Pfizer
- 16.22 Purdue Pharma
- 16.23 Syntex Pharmaceuticals International
- 16.24 Takeda
- 16.25 Zealand Pharma

List Of Figures

LIST OF FIGURES

Figure 1-1: Characteristics of an Ideal drug Delivery System

Figure 2-1: Limitations of the Conventional Drug Delivery Systems

Figure 2-2: Diversification of the Novel Drug Delivery Platforms

Figure 3-1: History of Drug Delivery Technology from First Generation till Third Generation

Figure 3-2: Barriers to be Overcome by the Third Generation Drug Delivery System

Figure 4-1: Demonstration of the Targeted & Non-Targeted Drug Delivery

Figure 4-2: Controlled Drug Release is by Zero Order Mechanism

Figure 5-1: Differentiation of the Two Forms of the Diffusion Controlled Mechanisms

Figure 5-2: Mechanism of Encapsulation Dissolution Controlled System

Figure 5-3: Osmotic Release of the Drug Delivery with the Controlled Mechanism

Figure 5-4: Illustration of Erosion Mechanisms Found in Matrix Systems

Figure 6-1: Plasma Concentration v/s Time Profile in Conventional & Controlled Release

Figure 6-2: Comparison of Varied Modified Drug Release Systems

Figure 6-3: Illustration of Mechanism of Pulsatile Drug Release in Pulsincap

Figure 6-4: Classification Based Over the Technicality Erudition

Figure 6-5: Structural Differentiation among Varied Classified Drug Delivery Systems

Figure 6-6: Classification Based over the Route of Administration

Figure 7-1: Categorization of Polymeric Controlled Drug Delivery Devices

Figure 7-2: Varied Nanostructures Available for the Nanoparticulate Delivery System

Figure 8-1: Global - Controlled Release Drug Clinical Pipeline by Phase (%), 2017 till 2022

Figure 8-2: Global - Controlled Release Drug Clinical Pipeline by Phase (Number), 2017 till 2022

Figure 8-3: Global - Controlled Release Drug Clinical Pipeline by Phase (%), 2017 till 2022

Figure 8-4: Global - Controlled Release Drug Clinical Pipeline by Phase (Number), 2017 till 2022

Figure 8-5: Global - Controlled Release Drug Clinical Pipeline by Country/Region (Number), 2017 till 2022

Figure 8-6: Global - Controlled Release Clinical Drug Pipeline by Mode of Action (Number), 2017 till 2022

Figure 8-7: Global - Controlled Release Drug Clinical Pipeline by Drug Class (Number), 2017 till 2022

Figure 8-8: Global - Controlled Release Drug Clinical Pipeline by indication (Number), 2017 till 2022

Figure 9-1: Major Non-Invasive Administrative Routes of Insulin Delivery

Figure 9-2: Layout of the Controlled Drug Delivery Approaches in Cancer Therapeutics

Figure 9-3: Controlled Drug Delivery Approaches used to Deliver Drugs to CNS

Figure 10-1: Dosage Formulations for the Controlled Drug Delivery

Figure 10-2: Mechanism of the Controlled Drug Release of the Solid Dosage Forms

Figure 10-3: Representation of Categories of Liquid Dosage Form

Figure 10-4: Mechanism of Controlled Delivery of Parenteral Dosage Forms

Figure 10-5: General Forms of Oral Controlled Release System Mechanism

Figure 10-6: Schematic Diffusion Controlled Drug Release from Inert Matrices

Figure 10-7: Demonstration of the Osmotic Pump Drug Release Mechanism

Figure 11-1: Drug Delivery Share by Route of Administration, 2016

Figure 11-2: Global - Oral Drug Delivery Administration Market (US\$ Billion), 2016 & 2022

Figure 11-3: Global - Injectable Drug Delivery Systems Market (US\$ Billion), 2016 & 2022

Figure 11-4: Global - Implantable Device Market (US\$ Billion), 2016 & 2022

Figure 11-5: Global - Topical Drug Delivery System Market (US\$ Billions), 2016 & 2022

Figure 11-6: Global - Biodegradable Polymer Market (US\$ Billions), 2016 & 2022

Figure 11-7: Global - Smart Polymers Market (US\$ Billion), 2016 & 2022

Figure 11-8: Global - Nanomedicine Market (US\$ Billion), 2016-2022

Figure 12-1: Accelerative Parameters of Controlled Drug Delivery Systems

Figure 12-2: Major Challenges Faced by Controlled Drug Delivery System

Figure 13-1: Illustration of Clinical Trials in Varied Segments for Controlled Drug Delivery

COMPANIES MENTIONED

Allergan

Amylin Pharmaceuticals

AstraZeneca

BioAlliance Pharma

Biogen

Collegium Pharmaceutical

Controlled Therapeutics (Ferring Pharmaceuticals)

Cosmo Pharmaceuticals

Egalet

Elan Corporation

Encore Therapeutics
Flamel Technologies
GlaxoSmithKline
Heron Therapeutics
iCeutica
Mithra Pharmaceuticals
Neurim Pharmaceuticals
Novartis
Orexigen Therapeutics
Otsuka Pharmaceutical
Pfizer
Purdue Pharma
Syntex Pharmaceuticals International
Takeda
Zealand Pharma

I would like to order

Product name: Global Controlled Drug Delivery Market & Clinical Trial Outlook 2022

Product link: <https://marketpublishers.com/r/GCA209169E5EN.html>

Price: US\$ 3,000.00 (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 <https://marketpublishers.com/r/GCA209169E5EN.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