Greystone Research Associates is pleased to announce the publication of a new market study. Large Volume Injection Devices for Self-Administration: Products, Therapeutics, Markets and Forecasts is a comprehensive evaluation and analysis of the technology, products and participants providing the driving force behind this evolving segment of the healthcare sector.

The study is designed to provide drug company decision makers, drug delivery developers, device designers, healthcare marketers, and supply chain participants with a detailed understanding of the economics, technologies, disease segments, and commercial opportunities for wearable devices capable of injecting or infusing therapeutic drugs in large volumes. Provider organization business managers, healthcare administrators and investors will also benefit from this study.

Large Volume Injectors and the Evolving Landscape for Injectable Drugs

Biological drugs continue to increase in terms of the absolute number of new approved drugs and as a percent of all approved drugs. In two of the largest (in terms of revenue) and fastest growing therapeutic segments – autoimmune diseases and oncology – the majority of drugs consist of monoclonal antibodies (mAbs). Therapeutic drugs consisting of proteins and peptides present unique drug packaging and delivery challenges. Often the dosing volume required to achieve a therapeutic effect requires the drug to be delivered via infusion, resulting in logistical, cost and safety issues. Drug developers and their delivery technology partners are attempting to address this limitation. The development of injectors capable of delivering drug volumes of 2 mL or higher subcutaneously is one promising method. This report examines this new class of devices and analyzes their potential impact on biological drug delivery.

Report Value Chain – Who Should Read This Report

Development
- Drug Developers
- Device Suppliers
- CMOs
- Components/APIs
- Testing/Validation
- Clinical Trial Mgmt

Industry
- Pharma Managers
- Biotech Managers
- Drug Marketers
- Industry Strategists
- Financial Analysts
- Management Consultants

Market
- Clinical Managers
- Drug Distributors
- Pharma Regulators
- FDA Consultants
- Managed Care Managers
Executive Summary

Large Volume Injectables Market Dynamics

The Trend toward Patient Self-Administration
Drug Delivery Device Evolution
Enabling Technology
Drug Development Trends

Large Volume Injectors for Self-Administration – Design Factors

Volumes and Viscosities
Primary Packaging
Injection Methodology
Patient Interface

Examining the Current Generation of Large Volume Injection Devices

Unbranded Injector (Enable Injections)
Microinfusor (BD Medical)
Unbranded Injector (Roche)
OmniPod (Insulet – moving beyond Insulin)
SmartDose (West Pharmaceuticals)
SensePatch FD/SD (Sensile Medical)
PatchPump (SteadyMed)
Precision Therapy/Flex Therapy (Unilife)

Large Volume Injection Devices – Near-Term Products

Herceptin SC (Roche/Halozyme)
Furosemide (scPharmaceuticals/Sensile Medical)
GnRH (Ferring/Insulet)
Prostacyclin (SteadyMed)

Therapeutic Market Segment Analysis & Forecasts

Inflammatory Autoimmune Diseases
Blood Disorders
Cardiovascular
Neurology
Oncology
Metabolic Diseases
Multiple Sclerosis
Reproductive Health
Upper Respiratory Diseases

Market Factors

Self-Administration and Patient Compliance
Regulatory Guidance and Product Approvals
Drug Product Differentiation/Marketability

Company Profiles
What You Will Learn

- What drugs are supplied or are being developed in large volume delivery devices, what are the device specifics, and who markets them?
- Who are the large volume injection device suppliers, their product strategies and their capabilities?
- What are the major factors driving large volume injectable/infusible drug delivery devices?
- How important are drug developer-device manufacturer relationships and what are the key alliances in the industry?
- What are the essential design factors, material selection issues, technologies and market development issues for large volume injection devices?
- What are the large volume injection device categories and what is their market potential?
- What are the significant economic, technology, and regulatory factors affecting the market for large volume injectable/infusible drug delivery devices?

Report Format and Availability

This report is available electronic format. A site license for a single physical location and a corporate license are also available. Custom licensing options to address specific company user requirements are available by calling client services at 603-595-4340, or by emailing clientservices@greystoneassociates.org.

Methodology

Research methodology is based on primary research in the form of in-depth interviews with key market participants, technology developers, distributors, industry experts, and market influencers, a list that includes regulatory officials, industry trade groups, and materials standards organizations.

Primary data is evaluated and normalized against secondary sources including trade journal articles, technical literature, industry publications, company data sheets and published information, and statistical data from government agencies and trade associations.

Forecasts and projections of market demand and future market activity are derived using standard modeling and statistical techniques.

About Greystone Associates

Greystone Associates is a medical technology consulting firm focused on the areas of medical market strategy, product commercialization, venture development, and market research. We assist medical and healthcare market participants in achieving their business objectives through the creation of detailed development strategies, product commercialization programs, and comprehensive market and technology research and analysis.

Our market research publications are designed, researched and written to provide timely and insightful information and data on focused market segments, with the aim of providing market participants with the essential knowledge to refine and execute their marketing plans and financial targets.

Go to http://www.greystoneassociates.org/Drug_Delivery.htm for more information
Ordering Information

Orders may be placed via postal mail, e-mail or fax. Orders not accompanied by a purchase order must contain a telephone number for verification, and clearly indicate the physical shipping address. Orders which are not prepaid must indicate the billing address. There is no charge for handling and shipping for destination addresses within the continental US.

Payment

We accept the following forms of payment:

- **Company Check**: Please make checks payable to ‘Greystone Associates’
- **Credit Cards**: We accept MasterCard, Visa and American Express
- **Wire Transfers**: See ‘Wire Transfers’ below for more information

Orders Outside the U.S.

Orders must be prepaid via credit card, company check in US funds and drawn on a US bank, or wire transfer. There is a $50 per copy shipping and handling charge for international shipments.

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Large Volume Injection Devices for Self-Administration

Products, Therapeutics, Markets and Forecasts

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