

Handheld Devices for Injecting High Viscosity Drugs

Technologies, Markets,
Strategies & Forecasts

Report Brochure



Greystone
Research Associates

Greystone Research Associates is pleased to announce the publication of a new market assessment. **Handheld Devices for Injecting High Viscosity Drugs: Technologies, Markets, Strategies 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, opportunities for handheld injection devices that are capable of injecting drugs with high viscosities. Provider organization business managers, healthcare administrators and investors will also benefit from this study.

Evolving Engineered Solution

Growth in high viscosity drugs is being driven by advances in biotechnology and host-vector engineering – advances that have led to a steady stream of biologics for a number of ailments and conditions. These powerful drugs come with a high cost-per-dose and the risk of significant side effects – factors that place an elevated emphasis on administration efficiency, safety and reliability. Many drugs in this class are characterized by physical properties and sensitivities that challenge the drug commercialization ecosystem. For example, monoclonal antibodies, perhaps the most significant category in terms of therapeutic and commercial importance, typically possess viscosities that are well above the normal limits of subcutaneous injection devices and techniques. Without a technical solution, these high viscosity drugs are formulated and supplied for infusion, a trend that threatens to put additional pressure on patient logistics and healthcare economics. Drug developers and device designers are increasingly working in collaboration to address the goal of subcutaneous administration of high viscosity injectables.

Executive Summary

Market Segment Dynamics

The High Viscosity Drug Market
The Economics of Drug Delivery
Market Drivers
Risk Factors

High Viscosity Injection Devices – Design Factors

Drug Properties
Drug Storage Requirements
Baseline Device Capabilities
Primary Packaging
Human Engineering/Ergonomics
Formulation Technology

Analysis of High Viscosity-Capable Handheld Devices

Specialty Glass Syringes
Specialty Autoinjectors
Liquified Gas Assisted Delivery
Mechanically Assisted Delivery Devices
Needle-free Injectors
Cyclic Olefin Prefillable Syringes

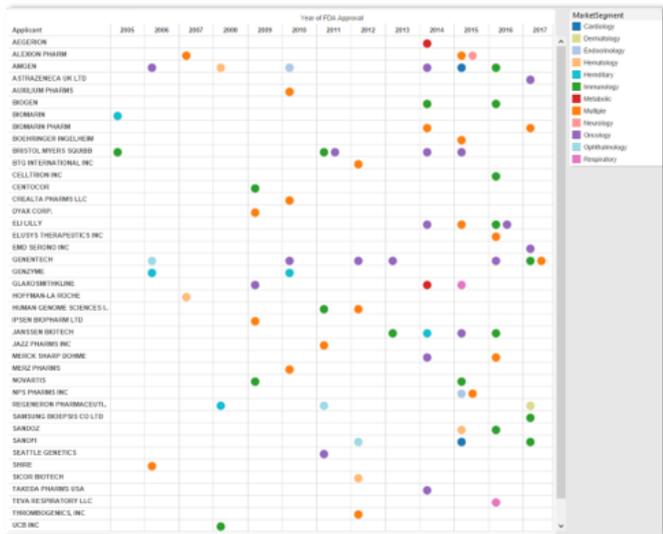
Market Factors

Regulatory Factors
Device Branding
Ease of Use

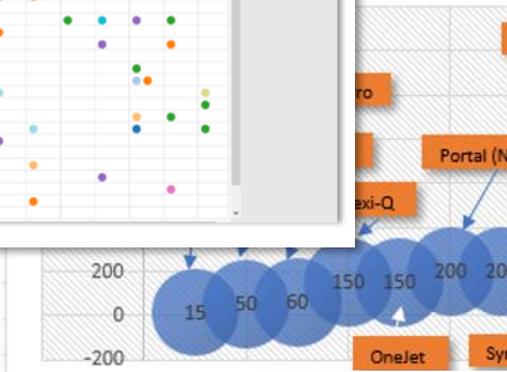
Company Profiles

Comprehensive Analysis and Visualizations

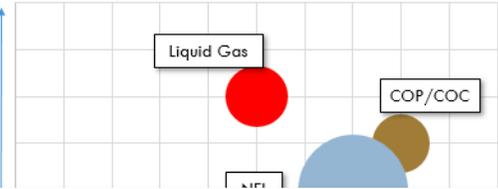
FDA Approval of new BLAs by Applicant (2005 – 2017)
 (Market Segment is Based on Primary Label Indication)



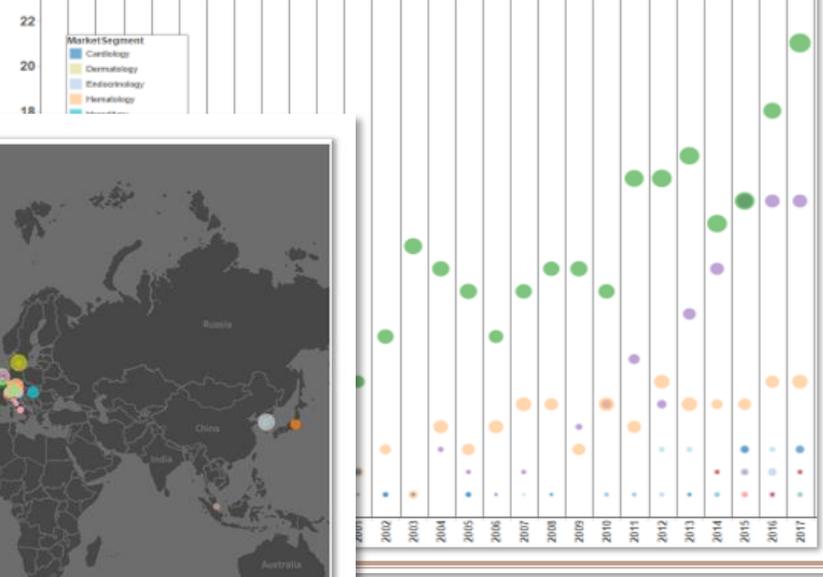
Capabilities (cP/10 sec) for Injection Devices (Published Values)



High Viscosity Capable Handheld Injection Devices Market Impact Chart
 Shape Size Indicates Forecast 2024 Market Share (Device Unit Basis)



Approved Injectable BLAs - Drug Approvals/Year
 Sphere Size Indicates Number of Total Products (API+Dose)



What You Will Learn

- What are the markets for therapeutic drugs with viscosities that cannot be delivered using standard self-injection devices and techniques?
- What are the technologies and devices that are aimed at positioning high viscosity drugs for subcutaneous injection?
- What are the design factors, material selection issues, formulation factors, and device capabilities and limitations of handheld devices that address the limitations of high viscosity drugs?
- Who are the high viscosity injectable drug and device participants, their product development activities, business strategies, and corporate alliances and affiliations?
- What are the key therapeutic sectors for high viscosity injectables?
- What does the market for high viscosity injectables look like today? What will it be in 2024?
- What is the impact of economic, technology, and regulatory factors on high viscosity drugs that can be administered via handheld 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.

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