

Smart Syringes Market Analysis by Therapeutic Category (Auto-Disable Syringes, Active Safety Syringes, Passive Safety syringes), By Application (Drug delivery, Vaccination, Blood Specimen Collection), By End-use (Hospitals and HMOs, Diabetic Patients, Family Practices (Physicians), Psychiatrists) And Segment Forecasts To 2024

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Abstracts

The global smart syringes market is expected to reach USD 10.2 billion in 2024, according to a new report by Grand View Research, Inc. In 2015, Some key factors driving the market include the rise in the patient population, the increasing number of needle stick injuries, and the spread of diseases due to unhygienic injection practices.

The injection practices and healthcare delivery standards are not uniform across the globe. The use of disposable syringes has been strongly advocated by various healthcare organizations across different countries; however, adherence to the patient safety guidelines is not adequately implemented in the LMIC (Low and Middle Income Countries).

As per the WHO records, the re-usage of syringes has boosted the infection cases of Ebola, malaria, Marburg virus, HIV, hepatitis, and other diseases in LMIC; these countries have been suffering with a huge infectious diseases burden due to the high transmission rates of blood-borne virus infections. Increasing awareness regarding the usage of smart syringes with safety mechanisms amongst the patients and the healthcare providers is anticipated to fuel the expansion of the smart syringes market over the forecast period.

As per the data published by the U.S. Occupational Safety and Health Administration (OSHA), nearly 5.6 million workers in the healthcare sector are at a high risk of occupational exposure to blood-borne pathogens, mainly on account of needle stick injuries and other metal injuries. The data also indicates that on an average 1,000 injuries occur per day in the U.S. hospitals, which translates to 385,000 needle stick and other injuries per year.

Some previously reported outbreaks due to the re-use of syringes include the following:

In 2007, hepatitis C outbreak in Nevada, U.S.

In 2009, more than 400 people were infected with Hepatitis B in Gujarat, India

In 2014, a group of more than 200 people(children and adults) living near Battambang, Cambodia, tested positive for HIV

Hence, in order to improve the healthcare outcomes and reduce the burden of infections, the healthcare practitioners and hospitals are expected to adopt the usage of smart syringes, which would significantly boost the smart syringes market over the forecast period.

Further key findings from the study suggest:

In 2015, the auto-disable syringes segment dominated the smart syringes market with revenue of over USD 3.0 billion. The established presence of the auto-disable syringes in the market is one of the crucial reasons for its high share.

The passive safety syringes segment is expected to emerge as the fastest growing market during the forecast period

North America accounted for the largest share in 2015 on account of very high healthcare standards, the presence of well-developed hospital and primary healthcare networks, high patient awareness, and the rising demand for sophisticated drug delivery techniques.

Asia Pacific is identified as the most lucrative market. Increase in the disease burden, the rising population levels, and the growing demand for vaccination are the key market drivers in this region. Furthermore, high investments to improve the patient care services and to curb the risk of needle stick infections are expected to spur the smart

syringes market over the forecast period.

Some key players of the market include Medtronic Plc (Covidien), Terumo Medical Corporation, Braun Melsungen AG, Unilife Corporation, Becton, Dickinson and Co., Revolutions Medical Corporation, Baxter International, Inc., Retractable Technologies, Inc., and Smiths Group plc.

Contents

CHAPTER 1 METHODOLOGY AND SCOPE

- 1.1 Research methodology
- 1.2 Research scope & assumptions
- 1.3 List of data Sources

CHAPTER 2 EXECUTIVE SUMMARY

CHAPTER 3 SMART SYRINGES INDUSTRY OUTLOOK

- 3.1 Market segmentation
- 3.2 Smart syringes market dynamics
- 3.3 Market driver analysis
- 3.4 Market restraint analysis
- 3.5 Key opportunities prioritized
- 3.6 Industry analysis - Porter's
- 3.7 Smart syringes market PESTEL Analysis

CHAPTER 4 SMART SYRINGES PRODUCT OUTLOOK

- 4.1 Smart syringes market share by product, 2015 & 2024
- 4.2 Auto-disable syringes
 - 4.2.1 Auto-disable syringes market estimates and forecasts, 2013 - 2024 (USD Billion)
- 4.3 Active safety syringes
 - 4.3.1 Active safety syringes market estimates and forecasts, 2013 - 2024 (USD Billion)
- 4.4 Passive safety syringes
 - 4.4.1 Passive safety syringes market estimates and forecasts, 2013 - 2024 (USD Billion)

CHAPTER 5 SMART SYRINGES APPLICATION OUTLOOK

- 5.1 Smart syringes market share by end-user, 2015 & 2024
- 5.2 Drug delivery
 - 5.2.1 Drug delivery market estimates and forecasts, 2013 - 2024 (USD Billion)
- 5.3 Vaccination
 - 5.3.1 Vaccination market estimates and forecasts, 2013 - 2024 (USD Billion)
- 5.4 Blood specimen collection

5.4.1 Blood specimen collection market estimates and forecasts, 2013 - 2024 (USD Billion)

CHAPTER 6 SMART SYRINGES END-USE OUTLOOK

6.1 Smart syringes market share by end-use, 2015 & 2024

6.2 Hospitals and HMOs

6.2.1 Hospitals and HMOs' market estimates and forecasts, 2013 - 2024 (USD Billion)

6.3 Diabetic patients

6.3.1 Diabetic patients market estimates and forecasts, 2013 - 2024 (USD Billion)

6.4 Family practices

6.4.1 Family practices collection market estimates and forecasts, 2013 - 2024 (USD Billion)

6.5 Psychiatrists

6.5.1 Psychiatrists collection market estimates and forecasts, 2013 - 2024 (USD Billion)

6.6 Others

6.6.1 Others market estimates and forecasts, 2013 - 2024 (USD Billion)

CHAPTER 7 SMART SYRINGES REGIONAL OUTLOOK

7.1 Smart syringes market share, by region, 2015 & 2024

7.2 North America

7.2.1 smart syringes market estimates and forecasts, by product, 2013 - 2024 (USD Billion)

7.2.1.1 U.S. market estimates and forecasts

7.2.1.2 Canada market estimates and forecasts

7.2.2 smart syringes market estimates and forecasts, by application, 2013 - 2024 (USD Billion)

7.2.2.1 U.S. market estimates and forecasts

7.2.2.2 Canada market estimates and forecasts

7.2.3 smart syringes market estimates and forecasts, by end-user, 2013 - 2024 (USD Billion)

7.2.3.1 U.S. market estimates and forecasts

7.2.3.2 Canada market estimates and forecasts

7.3 Europe

7.3.1 smart syringes market estimates and forecasts, by product, 2013 - 2024 (USD Billion)

7.3.1.1 UK market estimates and forecasts

7.3.1.2 Germany market estimates and forecasts

7.3.2 smart syringes market estimates and forecasts, by application, 2013 - 2024 (USD Billion)

7.3.2.1 UK market estimates and forecasts

7.3.2.2 Germany market estimates and forecasts

7.3.3 smart syringes market estimates and forecasts, by end-user, 2013 - 2024 (USD Billion)

7.2.2.1 UK market estimates and forecasts

7.2.2.2 Germany market estimates and forecasts

7.4 Asia Pacific

7.4.1 smart syringes market estimates and forecasts, by product, 2013 - 2024 (USD Billion)

7.4.1.1 Japan market estimates and forecasts

7.4.1.2 China market estimates and forecasts

7.4.2 smart syringes market estimates and forecasts, by application, 2013 - 2024 (USD Billion)

7.4.2.1 Japan market estimates and forecasts

7.4.2.2 China market estimates and forecasts

7.4.3 smart syringes market estimates and forecasts, by end-user, 2013 - 2024 (USD Billion)

7.4.3.1 Japan market estimates and forecasts

7.4.3.2 China market estimates and forecasts

7.5 Latin America

7.5.1 smart syringes market estimates and forecasts, by product, 2013 - 2024 (USD Billion)

7.5.1.1 Brazil market estimates and forecasts

7.5.1.2 Mexico market estimates and forecasts

7.5.2 smart syringes market estimates and forecasts, by application, 2013 - 2024 (USD Billion)

7.5.2.1 Brazil market estimates and forecasts

7.5.2.2 Mexico market estimates and forecasts

7.2.3 smart syringes market estimates and forecasts, by end-user, 2013 - 2024 (USD Billion)

7.2.3.1 Brazil market estimates and forecasts

7.2.3.2 Mexico market estimates and forecasts

7.6 MEA

7.6.1 smart syringes market estimates and forecasts, by product, 2013 - 2024 (USD Billion)

7.6.1.1 South Africa market estimates and forecasts

7.6.2 smart syringes market estimates and forecasts, by application, 2013 - 2024
(USD Billion)

7.6.2.1 South Africa market estimates and forecasts

7.6.3 smart syringes market estimates and forecasts, by end-user, 2013 - 2024 (USD Billion)

7.6.3.1 South Africa market estimates and forecasts

CHAPTER 8 COMPETITIVE LANDSCAPE

8.1 Medtronic Plc (Covidien)

8.1.1 Company Overview

8.1.2 Financial Performance

8.1.3 Product Benchmarking

8.1.4 Strategic Initiatives

8.2 Becton, Dickinson and Co.

8.2.1 Company Overview

8.2.2 Financial Performance

8.2.3 Product Benchmarking

8.2.4 Strategic Initiatives

8.3 B. Braun Melsungen AG

8.3.1 Company Overview

8.3.2 Financial Performance

8.3.3 Product Benchmarking

8.3.4 Strategic Initiatives

8.4 Terumo Medical Corporation

8.4.1 Company Overview

8.4.2 Financial Performance

8.4.3 Product Benchmarking

8.4.4 Strategic Initiatives

8.5 Baxter International Inc.

8.5.1 Company Overview

8.5.2 Financial Performance

8.5.3 Product Benchmarking

8.5.4 Strategic Initiatives

8.6 Smiths Group plc

8.6.1 Company Overview

8.6.2 Financial Performance

8.6.3 Product Benchmarking

8.6.4 Strategic Initiatives

8.7 Merck & Company Inc.

8.7.1 Company Overview

8.7.2 Financial Performance

8.7.3 Product Benchmarking

8.7.4 Strategic Initiatives

8.8 Retractable Technologies, Inc.

8.8.1 Company Overview

8.8.2 Financial Performance

8.8.3 Product Benchmarking

8.8.4 Strategic Initiatives

8.9 Unilife Corporation

8.9.1 Company Overview

8.9.2 Financial Performance

8.9.3 Product Benchmarking

8.9.4 Strategic Initiatives

8.10 Revolutions Medical Corporation

8.10.1 Company Overview

8.10.2 Financial Performance

8.10.3 Product Benchmarking

8.10.4 Strategic Initiatives

List Of Tables

LIST OF TABLES

TABLE 1 Smart syringes - Industry Summary & Critical Success Factors (CSFs)

TABLE 2 Smart syringes market, by product, 2013 - 2024 (USD Billion)

TABLE 3 Smart syringes market, by application, 2013 - 2024 (USD Billion)

TABLE 4 Smart syringes market, by end-user, 2013 - 2024 (USD Billion)

TABLE 5 Smart syringes market, by region, 2013 - 2024 (USD Billion)

TABLE 6 Smart syringes - Key market driver analysis

TABLE 7 Smart syringes- Key market restraint analysis

TABLE 10 North America smart syringes revenue, by product, 2013 - 2024 (USD Billion)

TABLE 11 North America smart syringes revenue, by application, 2013 - 2024 (USD Billion)

TABLE 12 North America smart syringes revenue, by end-user, 2013 - 2024 (USD Billion)

TABLE 13 U.S. smart syringes revenue, by product, 2013 - 2024 (USD Billion)

TABLE 14 U.S. smart syringes revenue, by application, 2013 - 2024 (USD Billion)

TABLE 15 U.S. smart syringes revenue, by end-user, 2013 - 2024 (USD Billion)

TABLE 16 Canada smart syringes revenue, by product, 2013 - 2024 (USD Billion)

TABLE 17 Canada smart syringes revenue, by application, 2013 - 2024 (USD Billion)

TABLE 18 Canada smart syringes revenue, by end-user, 2013 - 2024 (USD Billion)

TABLE 19 Europe smart syringes revenue, by product, 2013 - 2024 (USD Billion)

TABLE 20 Europe smart syringes revenue, by application, 2013 - 2024 (USD Billion)

TABLE 21 Europe smart syringes revenue, by end-user, 2013 - 2024 (USD Billion)

TABLE 22 Germany smart syringes revenue, by product, 2013 - 2024 (USD Billion)

TABLE 23 Germany smart syringes revenue, by application, 2013 - 2024 (USD Billion)

TABLE 24 Germany smart syringes revenue, by end-user, 2013 - 2024 (USD Billion)

TABLE 25 UK smart syringes revenue, by product, 2013 - 2024 (USD Billion)

TABLE 26 UK smart syringes revenue, by application, 2013 - 2024 (USD Billion)

TABLE 27 UK smart syringes revenue, by end-user, 2013 - 2024 (USD Billion)

TABLE 28 Asia Pacific smart syringes revenue, by product, 2013 - 2024 (USD Billion)

TABLE 29 Asia Pacific smart syringes revenue, by application, 2013 - 2024 (USD Billion)

TABLE 30 Asia Pacific smart syringes revenue, by end-user, 2013 - 2024 (USD Billion)

TABLE 31 Japan smart syringes revenue, by product, 2013 - 2024 (USD Billion)

TABLE 32 Japan smart syringes revenue, by application, 2013 - 2024 (USD Billion)

TABLE 33 Japan smart syringes revenue, by end-user, 2013 - 2024 (USD Billion)

TABLE 34	China smart syringes revenue, by product, 2013 - 2024 (USD Billion)
TABLE 35	China smart syringes revenue, by application, 2013 - 2024 (USD Billion)
TABLE 36	China smart syringes revenue, by end-user, 2013 - 2024 (USD Billion)
TABLE 37	Latin America smart syringes revenue, by product, 2013 - 2024 (USD Billion)
TABLE 38	Latin America smart syringes revenue, by application, 2013 - 2024 (USD Billion)
TABLE 39	Latin America smart syringes revenue, by end-user, 2013 - 2024 (USD Billion)
TABLE 40	Brazil smart syringes revenue, by product, 2013 - 2024 (USD Billion)
TABLE 41	Brazil smart syringes revenue, by application, 2013 - 2024 (USD Billion)
TABLE 42	Brazil smart syringes revenue, by end-user, 2013 - 2024 (USD Billion)
TABLE 43	Mexico smart syringes revenue, by product, 2013 - 2024 (USD Billion)
TABLE 44	Mexico smart syringes revenue, by application, 2013 - 2024 (USD Billion)
TABLE 45	Mexico smart syringes revenue, by end-user, 2013 - 2024 (USD Billion)
TABLE 46	MEA smart syringes revenue, by application, 2013 - 2024 (USD Billion)
TABLE 47	MEA smart syringes revenue, by end-user, 2013 - 2024 (USD Billion)
TABLE 48	MEA smart syringes revenue, by product, 2013 - 2024 (USD Billion)
TABLE 49	South Africa smart syringes revenue, by application, 2013 - 2024 (USD Billion)
TABLE 50	South Africa smart syringes revenue, by end-user, 2013 - 2024 (USD Billion)
TABLE 51	South Africa smart syringes revenue, by end-user, 2013 - 2024 (USD Billion)

List Of Figures

LIST OF FIGURES

- FIG. 1 Smart syringes: Market Segmentation
- FIG. 2 Smart syringes Market Revenue, 2013 - 2024 (USD Billion)
- FIG. 3 Smart syringes Market Dynamics
- FIG. 4 Key Opportunities Prioritized
- FIG. 5 Smart syringes Market - Porter's Analysis
- FIG. 6 Smart syringes Market - PESTEL Analysis
- FIG. 7 Smart syringes revenue share by product, 2015 & 2024
- FIG. 8 Auto-disable syringes revenue, 2013 - 2024 (USD Billion)
- FIG. 9 Active safety syringes revenue, 2013 - 2024 (USD Billion)
- FIG.10 Passive safety revenue, 2013 - 2024 (USD Billion)
- FIG.11 Smart syringes revenueshare by application, 2015 & 2024
- FIG.12 Drug delivery revenue, 2013 - 2024 (USD Billion)
- FIG.13 Vaccination evenue, 2013 - 2024 (USD Billion)
- FIG.14 Blood specimen collection revenue, 2013 - 2024 (USD Billion)
- FIG.15 Smart syringes revenue share by end-user, 2015 & 2024
- FIG.16 Hospitals and HMOs, 2013 - 2024 (USD Billion)
- FIG.17 Diabetic patients, 2013 - 2024 (USD Billion)
- FIG.18 Family practices (Physicians), 2013 - 2024 (USD Billion)
- FIG.19 Psychiatrists, 2013 - 2024 (USD Billion)
- FIG.20 Others, 2013 - 2024 (USD Billion)
- FIG.21 Smart syringes revenue share by region, 2015 & 2024
- FIG.22 North America smart syringes revenue, 2013 - 2024 (USD Billion)
- FIG.23 U.S.smart syringes revenue, 2013 - 2024 (USD Billion)
- FIG.24 Canada smart syringes revenue, 2013 - 2024 (USD Billion)
- FIG.25 Europe smart syringes revenue, 2013 - 2024 (USD Billion)
- FIG.26 Germany smart syringes revenue, 2013 - 2024 (USD Billion)
- FIG.27 UK smart syringes revenue, 2013 - 2024 (USD Billion)
- FIG.28 Asia Pacific smart syringes revenue, 2013 - 2024 (USD Billion)
- FIG.29 Japan smart syringes revenue, 2013 - 2024 (USD Billion)
- FIG.30 China smart syringes revenue, 2013 - 2024 (USD Billion)
- FIG.31 Latin America smart syringes revenue, 2013 - 2024 (USD Billion)
- FIG.32 Brazil smart syringes revenue, 2013 - 2024 (USD Billion)
- FIG.33 Mexicosmart syringes revenue, 2013 - 2024 (USD Billion)
- FIG.34 MEA smart syringes revenue, 2013 - 2024 (USD Billion)
- FIG.35 South Africa smart syringes revenue, 2013 - 2024 (USD Billion)

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