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INFUSION PUMPS AND ACCESSORIES MARKET

[**By Product** (Volumetric, Syringe, Enteral, Insulin, Implantable, PCA Pump), **By Application** (Diabetes, Chemotherapy, Nutrition, Pain Management), **By End-User** (Hospitals, Home Healthcare)]

– **Global Forecast to 2018**



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1 EXECUTIVE SUMMARY

The global infusion pumps and accessories market is expected to grow from \$XX million in 2013 to \$XX million by 2018, at a CAGR of XX% from 2013 to 2018. In this consolidated market, few leading players account for a majority of the market share, while there is presence of several small players operating at a regional level. In 2013, the top 5 players in the global infusion pumps and accessories market were CareFusion Corporation (U.S.), Baxter International, Inc. (U.S.), Hospira, Inc. (U.S.), B. Braun Melsungen AG (Germany), and Fresenius SE & Co. KGaA (Germany), together accounting for nearly XX% of the market share. Some other major players in the market are Medtronic, Inc. (U.S.), Smiths Medical (U.S.), Terumo Corporation (Japan), Moog Inc. (U.S.), and Johnson and Johnson (U.S.). Together, the top 10 players accounted for approximately XX% of the global infusion pumps and accessories market in 2013.

Several factors such as increasing prevalence of chronic disease backed by rising population, increasing use of infusion products in home care with favorable reimbursement coverage, and technological improvements in infusion products are currently driving the global infusion pumps and accessories market. In addition, the initiatives from the FDA and infusion pump manufacturers to increase the safe use of the infusion systems will also help improve the market revenue in forecast period. However, several issues and errors associated with the use of infusion systems are affecting the patient's safety and stringent regulations may hamper the growth of infusion pumps and accessories market.

The global market for infusion pumps and accessories is mainly dominated by the North American region. However, the saturation of infusion systems in this region will slower down the growth of infusion pumps and accessories in this regional market. In contrast, the developing Asian, Latin American, and Middle Eastern and African regional markets for infusion pumps and accessories will grow with higher CAGRs than the North American and European regional markets. However, despite these factors, North America will continue to dominate the global market till 2018.

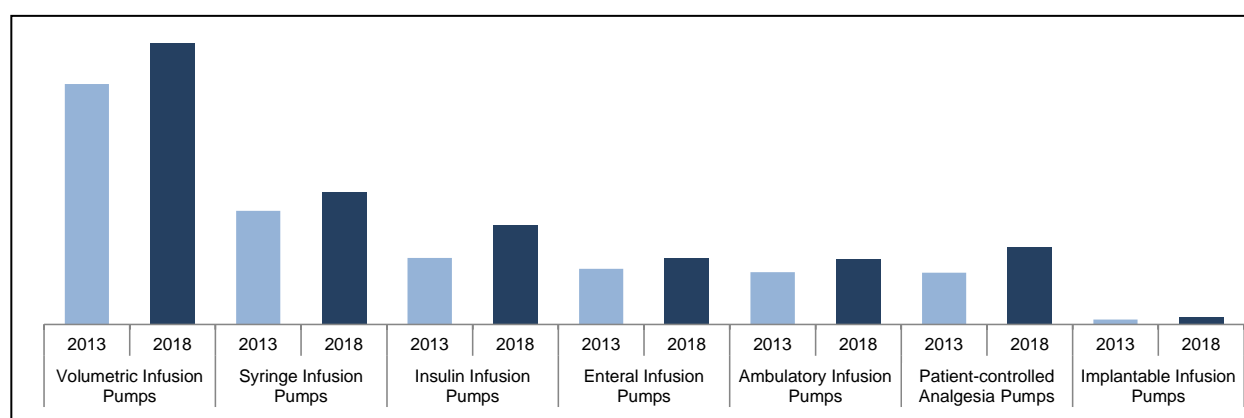
Infusion systems have increasing applications in the home care market. The advantage of certain infusion pumps enabling the patient's mobility during treatment drives the home care application of infusion systems. Along with this, worldwide government initiatives to reduce the overall healthcare cost associated with longer hospital stays support the growth of infusion systems in the home care application.

The increasing application of infusion systems for the management of diabetes and chronic pain withstands the rising demand for the insulin infusion pumps and patient-controlled analgesia pumps. The implantable infusion pump segment is also a high-growth segment in the market due to its increasing applications in the management of chronic diseases.

The global infusion pumps and accessories market studied in this report is segmented in three ways, namely by product type, application, and end user.

FIGURE 1

**GLOBAL INFUSION PUMPS (DEVICES) MARKET,
BY PRODUCT TYPE (\$MILLION)**



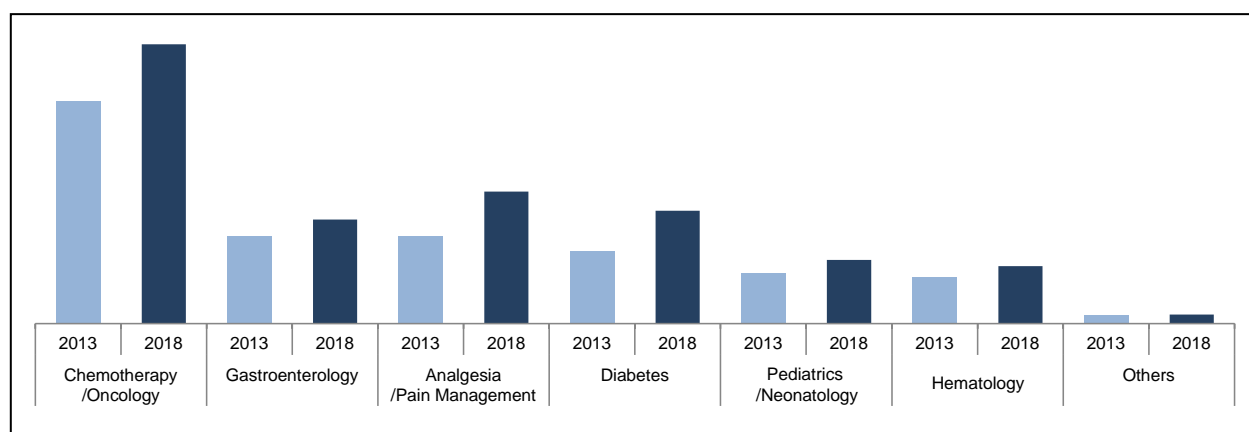
Sources: Annual Reports, Investor Presentations, Press Releases, Company Websites, FDA, Medicines and Healthcare Products Regulatory Agency, Association for the Advancement of Medical Instrumentation, California Hospital Patient Safety Organization (CHPSO), Expert Interviews, and MarketsandMarkets Analysis

In infusion devices, volumetric infusion pumps (devices) accounted for the maximum share of XX% of the global infusion pumps and accessories market in 2013. The market shows

significant growth opportunities for the insulin infusion, patient-controlled analgesia, and implantable pumps during the forecast period.

FIGURE 2

**GLOBAL INFUSION PUMPS AND ACCESSORIES MARKET,
BY APPLICATION (\$MILLION)**



Sources: Annual Reports, Investor Presentations, Press Releases, Company Websites, FDA, Medicines and Healthcare Products Regulatory Agency, Association for the Advancement of Medical Instrumentation, California Hospital Patient Safety Organization (CHPSO), Expert Interviews, and MarketsandMarkets Analysis

By application, chemotherapy/oncology accounted as a leading category with a share of about XX% of the global infusion pumps and accessories market in 2013. The application areas such as diabetes and pain management have wide opportunities for infusion pumps and accessories and are expected to grow with CAGRs of XX% and XX% respectively during the forecast period of 2013 to 2018. Despite this growth, the chemotherapy segment will continue to be largest contributor to the global infusion pumps and accessories market in 2018.

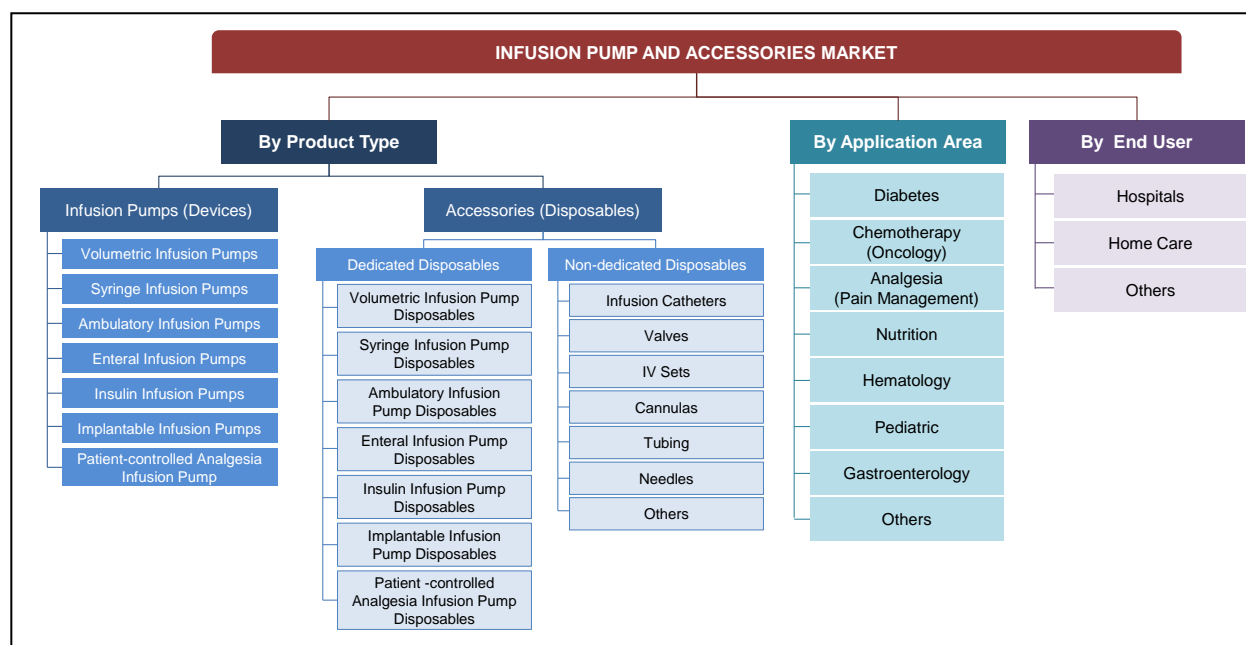
2 MARKET DYNAMICS

2.1 MARKET SEGMENTATION

Infusion systems are segmented depending on the type of product, application areas, and end users. Infusion products are classified into two major segments, namely pumps (devices) and accessories. Infusion accessories are further subdivided into dedicated and non-dedicated disposables. On the basis of application, the infusion pumps and accessories market is segmented into diabetes, oncology, pain management, nutrition, hematology, pediatric, gastroenterology, and others. Based on the end users, the infusion pump and accessories are divided into three segments, namely hospitals, home care, and other users.

FIGURE 3

INFUSION PUMP AND ACCESSORIES MARKET SEGMENTATION



Sources: Annual Reports, Investor Presentations, Press Releases, Company Websites, Expert Interviews, and MarketsandMarkets Analysis.

3 INFUSION PUMPS & ACCESSORIES MARKET, BY PRODUCT

3.1 INTRODUCTION

The infusion pump system is a drug delivery system that enables the administration of fluids at a controlled and predetermined rate. This system is an important method of drug delivery in the treatment of for chronic pain and a wide range of clinical conditions such as diabetes and cancer. At a broader level, infusion pumps can be classified as implantable or external.

In many cases, the conventional or systemic drug delivery systems fail to provide adequate relief or causes severe adverse effects. In such conditions, the medicaments need to be delivered in a precise and controlled manner to minimize the adverse effects. The use of infusion pump systems has several advantages over conventional drug delivery. Infusion pumps enable clinicians to dispense drugs with fixed doses with scheduled program. The usage of infusion systems has grown over the years as a result of continuous improvements in the devices incorporating additional safety during drug delivery.

Currently, the manufacturers have focused on enhancing equipment reliability through the development of new products with safety alarms and operating logs. This will help reduce medication error rates and ensure higher quality of healthcare delivery to patients.

Typically, an infusion system consists of a device and any associated disposables useful to deliver fluids or drug solutions to the patient. The device helps regulate the delivery of fluids during infusion and the accessories deliver the medicaments from the reservoir to the site of administration.

The global market for infusion pumps and accessories is expected to grow from \$XX million in 2013 to \$XX million by 2018, at a CAGR of XX% during the forecast period.

TABLE 1

**GLOBAL INFUSION PUMPS AND ACCESSORIES MARKET,
BY PRODUCT TYPE, 2011–2018 (\$MILLION)**

Product Type	2011	2012	2013	2018	CAGR (2013–2018)
Devices Market	XX	XX	XX	XX	XX%
Accessories Market	XX	XX	XX	XX	XX%
Total	XX	XX	XX	XX	XX%

Sources: Annual Reports, Investor Presentations, Press Releases, Company Websites, FDA, Medicines and Healthcare Products Regulatory Agency, Association for the Advancement of Medical Instrumentation, California Hospital Patient Safety Organization (CHPSO), Expert Interviews, and MarketsandMarkets Analysis

The infusion accessories segment accounted for the largest share—XX%—of the global infusion pump and accessories market in 2013. This segment is expected to grow from \$XX million in 2013 to \$XX million by 2018, at a CAGR of XX% from 2013 to 2018.

3.2 INFUSION PUMPS (DEVICES) MARKET

There are several types of infusion devices available in the market which can be used for variety of purposes and in diversified environments. Infusion pumps are capable of delivering fluids in both large and small volumes. Infusion devices are generally used to deliver nutrients or medications such as insulin, antibiotics, chemotherapy drugs, and pain relievers.

Certain infusion pumps are used for stationary use while some are designed to be ambulatory. The type of infusion pump to be used depends on the required volume and speed of infusion. The various infusion devices include volumetric infusion pumps, syringe infusion pumps, ambulatory infusion pumps, patient-controlled analgesia pumps, and so on.

Many infusion pumps also include features to alert the user for risk of an adverse drug interaction or when the user tries to set the pump's parameters outside the specified limit of

safety. The innovations in the infusion pump mainly include the integration of systems with more efficient programs that can provide better safety and efficacy. Insulin pumps and Patient-controlled Analgesia (PCA) pumps are expected to be the fastest growing segments than other infusion pump segments.

The global market for infusion pumps (devices) is poised to grow from \$XX million in 2013 to \$XX million by 2018, at a CAGR of XX% during the forecast period.

TABLE 2

**GLOBAL INFUSION PUMPS (DEVICES) MARKET,
BY PRODUCT TYPE, 2011–2018 (\$MILLION)**

Product Type	2011	2012	2013	2018	CAGR (2013–2018)
Volumetric Infusion Pumps	XX	XX	XX	XX	XX%
Syringe Infusion Pumps	XX	XX	XX	XX	XX%
Insulin Infusion Pumps	XX	XX	XX	XX	XX%
Enteral Infusion Pumps	XX	XX	XX	XX	XX%
Ambulatory Infusion Pumps	XX	XX	XX	XX	XX%
Patient-controlled Analgesia Pumps	XX	XX	XX	XX	XX%
Implantable Infusion Pumps	XX	XX	XX	XX	XX%
Total	XX	XX	XX	XX	XX%

Sources: Annual Reports, Investor Presentations, Press Releases, Company Websites, FDA, Medicines and Healthcare Products Regulatory Agency, Association for the Advancement of Medical Instrumentation, California Hospital Patient Safety Organization (CHPSO), Expert Interviews, and MarketsandMarkets Analysis.

Volumetric infusion pumps accounted for the largest share—XX%—of the global infusion pumps market in 2013. It is expected to grow from \$XX million in 2013 to \$XX million by 2018, at a CAGR of XX% from 2013 to 2018.

TABLE 3

**GLOBAL VOLUMETRIC INFUSION PUMPS (DEVICES) MARKET,
BY GEOGRAPHY, 2011-2018 (\$MILLION)**

Country/Region	2011	2012	2013	2018	CAGR (2013-2018)
U.S.	XX	XX	XX	XX	XX%
Canada	XX	XX	XX	XX	XX%
Germany	XX	XX	XX	XX	XX%
Italy	XX	XX	XX	XX	XX%
U.K.	XX	XX	XX	XX	XX%
France	XX	XX	XX	XX	XX%
Spain	XX	XX	XX	XX	XX%
Japan	XX	XX	XX	XX	XX%
China	XX	XX	XX	XX	XX%
India	XX	XX	XX	XX	XX%
Middle East & Africa	XX	XX	XX	XX	XX%
Latin America	XX	XX	XX	XX	XX%
Others	XX	XX	XX	XX	XX%
Total	XX	XX	XX	XX	XX%

Sources: Annual Reports, Investor Presentations, Press Releases, Company Websites, FDA, Medicines and Healthcare Products Regulatory Agency, Association for the Advancement of Medical Instrumentation, California Hospital Patient Safety Organization (CHPSO), Expert Interviews, and MarketsandMarkets Analysis

The U.S. accounted for the largest share—XX%—of the global volumetric infusion pumps market. It is expected to grow from \$XX million in 2013 to \$XX million by 2018, at a CAGR of XX% from 2013 to 2018.

4 INFUSION PUMPS AND ACCESSORIES MARKET, BY APPLICATION

4.1 INTRODUCTION

Infusion systems are used for delivery of drug molecules to the patient in a controlled and precise manner. This provides clinicians a better control over the treatment with better outcomes. With these benefits, infusion systems are widely used in several therapeutic areas such as diabetes, cancer, neurological disorders, hematological disorders, and gastroenterological disorders. Pain management is another major application area for infusion systems. Similarly, due to the criticality of the treatment and risks associated with medication delivery, infusion pumps are also highly preferred in several medical conditions in the pediatric and neonatal population.

The global infusion pumps market for the aforementioned application areas is largely driven by the growing prevalence of variety of diseases such as cancer, diabetes neurological disorders, and anemia. The market in the developed countries across North America and Europe is largely driven by the increasing uptake of technologically advanced products. Whereas, the growing healthcare awareness and per capita healthcare expenditure is expected to play a vital role in growth of the infusion pumps market in the developing countries across the APAC and Latin America.

On the other hand, the emergence of various novel drug products in the market that demand sophisticated drug delivery mechanisms are also widening the applications of infusion pumps, thereby driving the growth of the global infusion pumps market.

TABLE 4

**GLOBAL INFUSION PUMPS AND ACCESSORIES MARKET,
BY APPLICATION, 2011–2018 (\$MILLION)**

Application	2011	2012	2013	2018	CAGR (2013–2018)
Chemotherapy/Oncology	XX	XX	XX	XX	XX%
Gastroenterology	XX	XX	XX	XX	XX%
Analgesia/Pain Management	XX	XX	XX	XX	XX%
Diabetes	XX	XX	XX	XX	XX%
Pediatrics/Neonatology	XX	XX	XX	XX	XX%
Hematology	XX	XX	XX	XX	XX%
Others	XX	XX	XX	XX	XX%
Total	XX	XX	XX	XX	XX%

Sources: Annual Reports, Investor Presentations, Press Releases, Company Websites, FDA, Medicines and Healthcare Products Regulatory Agency, Association for the Advancement of Medical Instrumentation, California Hospital Patient Safety Organization (CHPSO), Expert Interviews, and MarketsandMarkets Analysis

The chemotherapy/oncology segment accounted for the largest share—XX%—of the global infusion pump and accessories application market in 2013. This segment is expected to grow from \$XX million in 2013 to \$XX million by 2018, at a CAGR of XX% from 2013 to 2018.

4.2 ANALGESIA/PAIN MANAGEMENT

Pain is associated with many diseases and almost all surgeries. It is one of the major reasons for the hospitalization of patients. Therefore, the prevention and treatment of pain is a major concern for healthcare providers across the globe. The pain may be an acute or a chronic one. According to the American Academy of Pain Medicine, about XX billion people suffered from chronic pain and approximately XX% of the global population suffered from neuropathic pain in 2012 worldwide.

Various therapies are available for the management of pain. In certain cases of pain management, patients are unable to take medication orally or faster drug action is required. In such conditions, injectable formulations are administered for the pain relief. The infusion pumps provide a better option for the parenteral administration of formulations in pain management. Patient-controlled analgesia (PCA) pumps are specifically designed for pain medication therapies and have wide applications in pain management. Certain implantable pumps are also used in chronic pain management.

The high incidence of chronic pain, majorly associated with chronic diseases, is one the main driving factor for the growing pain management market which also leads to the increasing demand for infusion pumps in the pain management. Also, the introduction of novel medicines and biologics for pain management demands sophisticated, injectable delivery systems, thereby encouraging the use of infusion pumps in pain management therapies.

According to the Center for Diseases Control and Prevention (CDC), about XX million surgeries were done in 2010 in U.S. The increasing number of surgeries also propels the preferable use of infusion pumps for managing analgesia during and after the surgery. Since, a variety of analgesics are used for the production of analgesia and overdose of these analgesics may result into serious adverse effects, a safer and successful administration of analgesics is preferably done using infusion pumps.

The global market for infusion pumps and accessories used in the analgesia/pain management segment is estimated to grow from \$XX million in 2013 to \$XX million by 2018, at a CAGR of XX% during the forecast period.

5 GEOGRAPHIC ANALYSIS

5.1 INTRODUCTION

The infusion pumps and accessories market in this report is broadly divided into four major geographies, namely North America, Europe, Asia-Pacific, and the Rest of the World (RoW). North America accounted for the largest share—XX%—of the global infusion pumps and accessories market in 2013, followed by Europe and the APAC region.

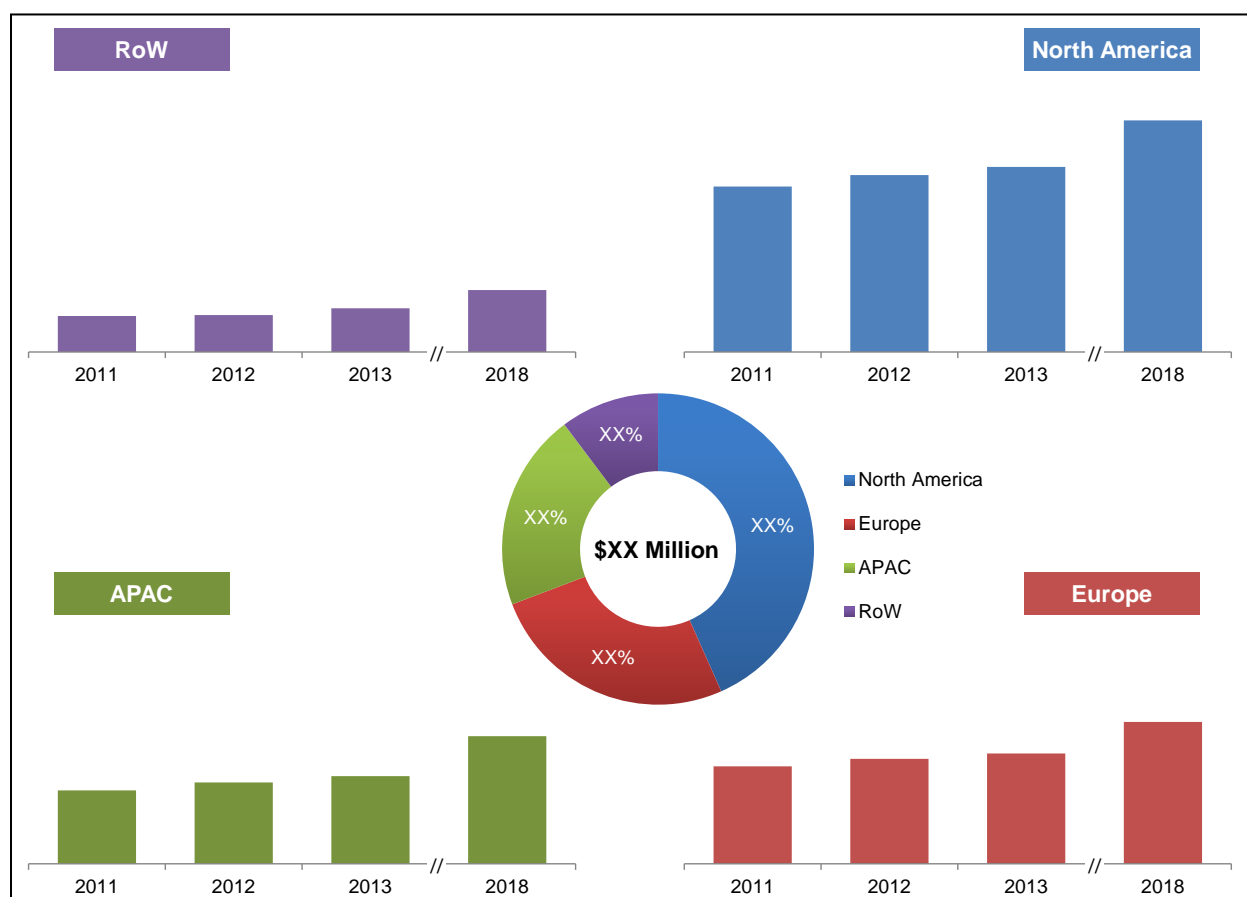
Across the globe, nearly XX% of hospitalized patients require continuous intravenous (IV) administration of the medicaments which increases the demand for infusion systems. However, there is slight shift of hospital treatments toward home care which is expected to increase the use of infusion pumps and accessories in home settings.

With several product restrictions, lower reimbursements and fewer new product launches, the developed regions such as the U.S. have currently reached the saturation level for the infusion pumps and accessories market and thus have fewer opportunities for the growth. Therefore, the growing healthcare market in this region will hold a slower growth for infusion pumps and accessories. The European region is recovering from the economical crises and building a significant opportunity for the growth of the infusion pumps and accessories market in this region.

The developing economies in the APAC, Latin America, and the Middle East and African regions have great growth opportunities in the infusion pumps and accessories market. Various initiatives and enhanced investments from the governments for the overall development of healthcare system support the growth of infusion pumps in these developing economies. Additionally, the increasing healthcare awareness and growing per capita healthcare expenditure in the developing countries further drives the infusion pumps and accessories market in this region.

FIGURE 4

GLOBAL INFUSION PUMPS AND ACCESSORIES MARKET,
BY GEOGRAPHY, 2011–2018 (\$MILLION)



Sources: Annual Reports, Investor Presentations, Press Releases, Company Websites, FDA, Medicines and Healthcare Products Regulatory Agency, Association for the Advancement of Medical Instrumentation, California Hospital Patient Safety Organization (CHPSO), Expert Interviews, and MarketsandMarkets Analysis

North America accounted for the largest share—XX%—of the global infusion pump and accessories market in 2013. This segment is expected to grow from \$XX million in 2013 to \$XX million by 2018, at a CAGR of XX% from 2013 to 2018.

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