

### Insulin Market, 2012 to 2023

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#### **Abstracts**

Insulin Market: Insulin is an anabolic hormone secreted by ?-cells of pancreatic islets. Insulin helps in the metabolism of carbohydrates, proteins, and fats by absorbing the glucose and converts to glycogen by glycogenesis and stores in the skeletal muscles. Deficiency of insulin leads to the hyperglycemia or diabetes mellitus. Insulin is commonly used in type-1 diabetes, however, rarely used in the type 2 diabetes. The ?-cells of the pancreas are destroyed due to the autoimmune reaction and causes insulin deficiency which leads to type-1 diabetes. In type 2 diabetes, the body becomes more resistant to insulin and requires more insulin for the carbohydrate metabolism.

Global Market Outline: Insulin Market

Increase in the prevalence of diabetes, technological advancements in the insulin administration devices such as pen devices, change in the lifestyle leads to early onset of diabetes, the rise in the incidence of obesity, and favourable reimbursement policies expected to boost the insulin market over the forecast period. Moreover, product approval for insulin biosimilars in January 2016 by FDA for the Basaglar biosimilar in U.S, increase the awareness about the insulin usage, ease of administration, availability of the wider products, an upsurge in the demand for insulin analogues are anticipated propel the market over the forecast period. However, stringent regulatory policies for product approval, a high cost of the insulin, and manufacturing complexities might hamper the growth of insulin market over the forecast timeframe.

Global insulin market is segmented on the product type, diabetes type, and end user

Based on the product type, insulin market is segmented into the following:

Ultra-short acting insulin Short-acting insulin



Intermediate-acting insulin Long-acting insulin Premixed insulin

Based on the diabetes type, insulin market is segmented into the following:

Type 1 diabetes
Type 2 diabetes

Based on the end user, insulin market is segmented into the following:

Hospital Pharmacies Retail Pharmacies Online Pharmacies

Global insulin market is in the developed stage with several players operating in the market. Increase in the prevalence of diabetes and obesity, increase in the R&D activities for the development of insulin such as oral insulin and insulin patches is anticipated to propel the insulin market in the forthcoming years. Acquisitions & mergers, collaborations, product approval and launchings, and patent filings for the devices are some key strategies followed by the companies. For instance, in February 2016, Eli Lilly and Co. acquired Glycostasis, Inc. for the development of insulin. In addition, in August 2016, Emperra has launched Bluetooth enabled the insulindelivering device in Germany.

Geographically, the insulin market is segmented into following regions Viz. North America, Europe, Asia-Pacific, Latin America, and Middle East & Africa. North America anticipated to healthy growth rate owing to increase in the prevalence of diabetes in the U.S. (According to American Diabetes Association, the prevalence of diabetes in 2015 is 30.3 Mn or 9.4% in U.S.), a rise in the healthcare expenditure, and technological advancements in insulin administration. Europe holds a key share in the market, which is attributed to increasing in the prevalence of diabetes majorly in Germany, Russia, and U.K (according to Diabetes UK 2016, about 3.6 Mn people are suffering from diabetes in the U.K. region), rise in the obese population due to change in lifestyle, increased R&D activities, and surge in demand for minimally invasive administration might propel the revenue growth of insulin market over the forecast years. Asia Pacific exhibiting significant growth owing to increase in diabetes population majorly in India and China (according to the International Diabetes Federation, in 2015, China around 96.2 million diabetic patients and India 66.8 million patients are suffering from diabetes.), rise in



healthcare expenditure, and adoption of insulin in Asia Pacific region expected to bolster the insulin market.

Some of the players in Insulin market are Eli Lilly and Co. (U.S.), Merck & Co, Inc. (U.S.), Novo Nordisk A/S (Denmark), Sanofi (France), GlaxoSmithKline Plc. (U.K.). Biocon Ltd. (India), and Wockhardt Ltd. (India) to name a few.

In July 2017, Merck & Co. Inc. has received tentative approval from FDA for Lusduna Nexvue (insulin glargine) a biologic basal insulin to treat diabetes

In May 2017, Novo Nordisk A/S launched Xultophy 100/3.6 (insulin degludec/liraglutide) for type 2 diabetes patient

In January 2017, Sanofi launched Soliqua 100/33 (insulin glargine/lixisenatide) in the U.S. for the treatment of type 2 diabetes in adults



#### **Contents**

#### 1. EXECUTIVE SUMMARY

#### 2. GLOBAL INSULIN MARKET INTRODUCTION

- 2.1. Global Insulin Market Taxonomy
- 2.2. Global Insulin Market Definitions
  - 2.2.1. Product
  - 2.2.2. Diabetes Type
  - 2.2.3. End-User

#### 3. GLOBAL INSULIN MARKET DYNAMICS

- 3.1. Drivers
- 3.2. Restraints
- 3.3. Opportunities/Unmet Needs of the Market
- 3.4. Trends
- 3.5. Global Insulin Market Dynamics Factors Impact Analysis
- 3.6. Global Insulin Market Regulations
  - 3.6.1. U.S.
  - 3.6.2. Europe

### 4. GLOBAL INSULIN MARKET ANALYSIS, 2012 - 2016 AND FORECAST, 2017 - 2023

- 4.1. Market Analysis, 2012 2016 and Forecast, 2017 2023 (Revenue, USD Mn)
- 4.2. Year-over-Year (Y-o-Y) Growth Analysis (%)
- 4.3. Market Oppurtunity Analysis

### 5. GLOBAL INSULIN MARKET, BY PRODUCT, 2012 - 2016 AND FORECAST, 2017 - 2023

- 5.1. Ultra-short acting insulin
- 5.1.1. Market Analysis, 2012 2016 and Forecast, 2017 2023 (Revenue, USD Mn)
- 5.1.2. Year-over-Year (Y-o-Y) Growth Analysis (%) and Market Share Analysis (%)
- 5.1.3. Market Opportunity Analysis
- 5.2. Short-acting insulin
- 5.2.1. Market Analysis, 2012 2016 and Forecast, 2017 2023 (Revenue, USD Mn).



- 5.2.2. Year-over-Year (Y-o-Y) Growth Analysis (%) and Market Share Analysis (%)
- 5.2.3. Market Opportunity Analysis
- 5.3. Intermediate-acting insulin
  - 5.3.1. Market Analysis, 2012 2016 and Forecast, 2017 2023 (Revenue, USD Mn)
  - 5.3.2. Year-over-Year (Y-o-Y) Growth Analysis (%) and Market Share Analysis (%)
  - 5.3.3. Market Opportunity Analysis
- 5.4. Long-acting insulin
- 5.4.1. Market Analysis, 2012 2016 and Forecast, 2017 2023 (Revenue, USD Mn)
- 5.4.2. Year-over-Year (Y-o-Y) Growth Analysis (%) and Market Share Analysis (%)
- 5.4.3. Market Opportunity Analysis
- 5.5. Premixed insulin
  - 5.5.1. Market Analysis, 2012 2016 and Forecast, 2017 2023 (Revenue, USD Mn)
  - 5.5.2. Year-over-Year (Y-o-Y) Growth Analysis (%) and Market Share Analysis (%)
  - 5.5.3. Market Opportunity Analysis

### 6. GLOBAL INSULIN MARKET FORECAST, BY DIABETES TYPE, 2012 - 2016 AND FORECAST, 2017 - 2023

- 6.1. Type 1 diabetes
  - 6.1.1. Market Analysis, 2012 2016 and Forecast, 2017 2023 (Revenue, USD Mn)
  - 6.1.2. Year-over-Year (Y-o-Y) Growth Analysis (%) and Market Share Analysis (%)
  - 6.1.3. Market Opportunity Analysis
- 6.2. Type 2 diabetes
- 6.2.1. Market Analysis, 2012 2016 and Forecast, 2017 2023 (Revenue, USD Mn)
- 6.2.2. Year-over-Year (Y-o-Y) Growth Analysis (%) and Market Share Analysis (%)
- 6.2.3. Market Opportunity Analysis

# 7. GLOBAL INSULIN MARKET FORECAST, BY END-USER, 2012 - 2016 AND FORECAST, 2017 - 2023

- 7.1. Hospital Pharmacies
- 7.1.1. Market Analysis, 2012 2016 and Forecast, 2017 2023 (Revenue, USD Mn)
- 7.1.2. Year-over-Year (Y-o-Y) Growth Analysis (%) and Market Share Analysis (%)
- 7.1.3. Market Opportunity Analysis
- 7.2. Retail Pharmacies
- 7.2.1. Market Analysis, 2012 2016 and Forecast, 2017 2023 (Revenue, USD Mn)
- 7.2.2. Year-over-Year (Y-o-Y) Growth Analysis (%) and Market Share Analysis (%)
- 7.2.3. Market Opportunity Analysis
- 7.3. Online Pharmacies



- 7.3.1. Market Analysis, 2012 2016 and Forecast, 2017 2023 (Revenue, USD Mn)
- 7.3.2. Year-over-Year (Y-o-Y) Growth Analysis (%) and Market Share Analysis (%)
- 7.3.3. Market Opportunity Analysis

## 8. GLOBAL INSULIN MARKET FORECAST, BY REGION, 2012 - 2016 AND FORECAST, 2017 - 2023

- 8.1. North America
  - 8.1.1. Market Analysis, 2012 2016 and Forecast, 2017 2023 (Revenue, USD Mn)
  - 8.1.2. Year-over-Year (Y-o-Y) Growth Analysis (%) and Market Share Analysis (%)
  - 8.1.3. Market Opportunity Analysis
- 8.2. Europe
- 8.2.1. Market Analysis, 2012 2016 and Forecast, 2017 2023 (Revenue, USD Mn)
- 8.2.2. Year-over-Year (Y-o-Y) Growth Analysis (%) and Market Share Analysis (%)
- 8.2.3. Market Opportunity Analysis
- 8.3. Asia-Pacific
  - 8.3.1. Market Analysis, 2012 2016 and Forecast, 2017 2023 (Revenue, USD Mn)
  - 8.3.2. Year-over-Year (Y-o-Y) Growth Analysis (%) and Market Share Analysis (%)
  - 8.3.3. Market Opportunity Analysis
- 8.4. Latin America
  - 8.4.1. Market Analysis, 2012 2016 and Forecast, 2017 2023 (Revenue, USD Mn)
  - 8.4.2. Year-over-Year (Y-o-Y) Growth Analysis (%) and Market Share Analysis (%)
  - 8.4.3. Market Opportunity Analysis
- 8.5. Middle East and Africa
- 8.5.1. Market Analysis, 2012 2016 and Forecast, 2017 2023 (Revenue, USD Mn)
- 8.5.2. Year-over-Year (Y-o-Y) Growth Analysis (%) and Market Share Analysis (%)
- 8.5.3. Market Opportunity Analysis
- 8.6. Global Insulin Market Opportunity Analysis Index, By Product, By Diabetes Type, By End-User, and Region, 2017 2023

### 9. NORTH AMERICA INSULIN MARKET ANALYSIS, 2012 - 2016 AND FORECAST, 2017 - 2023

- 9.1. Product Analysis (2012 2016) and Forecast (2017 2023) by Revenue (USD Mn), Y-o-Y Growth (%), and Market Share (%)
  - 9.1.1. Ultra-short acting insulin
  - 9.1.2. Short-acting insulin
  - 9.1.3. Intermediate-acting insulin
  - 9.1.4. Long-acting insulin



- 9.1.5. Premixed insulin
- 9.2. Diabetes Type Analysis (2012 2016) and Forecast (2017 2023) by Revenue (USD Mn), Y-o-Y Growth (%) and Market Share (%)
  - 9.2.1. Type 1 diabetes
  - 9.2.2. Type 2 diabetes
- 9.3. End-User Analysis (2012 2016) and Forecast (2017 2023) by Revenue (USD
- Mn), Y-o-Y Growth (%) and Market Share (%)
  - 9.3.1. Hospital Pharmacies
  - 9.3.2. Retail Pharmacies
  - 9.3.3. Online Pharmacies
- 9.4. Country Analysis (2012 2016) and Forecast (2017 2023) by Revenue (USD Mn) Y-o-Y Growth (%) and Market Share (%)
  - 9.4.1. U.S.
  - 9.4.2. Canada
- 9.5. North America Insulin Market Opportunity Analysis Index, By Product, By Diabetes Type, By End-User and Country, 2017 2023
- 9.6. North America Insulin Market Dynamics Trends

### 10. EUROPE INSULIN MARKET ANALYSIS, 2012 - 2016 AND FORECAST, 2017 - 2023

- 10.1. Product Analysis (2012 2016) and Forecast (2017 2023) by Revenue (USD Mn), Y-o-Y Growth (%), and Market Share (%)
  - 10.1.1. Ultra-short acting insulin
  - 10.1.2. Short-acting insulin
  - 10.1.3. Intermediate-acting insulin
  - 10.1.4. Long-acting insulin
  - 10.1.5. Premixed insulin
- 10.2. Diabetes Type Analysis (2012 2016) and Forecast (2017 2023) by Revenue (USD Mn), Y-o-Y Growth (%) and Market Share (%)
  - 10.2.1. Type 1 diabetes
  - 10.2.2. Type 2 diabetes
- 10.3. End-User Analysis (2012 2016) and Forecast (2017 2023) by Revenue (USD Mn), Y-o-Y Growth (%) and Market Share (%)
  - 10.3.1. Hospital Pharmacies
  - 10.3.2. Retail Pharmacies
  - 10.3.3. Online Pharmacies
- 10.4. Country Analysis (2012 2016) and Forecast (2017 2023) by Revenue (USD Mn), Y-o-Y Growth (%) and Market Share (%)



- 10.4.1. Germany
- 10.4.2. UK
- 10.4.3. France
- 10.4.4. Spain
- 10.4.5. Italy
- 10.4.6. Russia
- 10.4.7. Poland
- 10.4.8. Rest of Europe
- 10.5. Europe Insulin Market Opportunity Analysis Index, By Product, By Diabetes Type, By End-User and Country, 2017 2023
- 10.6. Europe Insulin Market Dynamics Trends

### 11. ASIA-PACIFIC INSULIN MARKET ANALYSIS, 2012 - 2016 AND FORECAST, 2017 - 2023

- 11.1. Product Analysis (2012 2016) and Forecast (2017 2023) by Revenue (USD Mn), Y-o-Y Growth (%), and Market Share (%)
  - 11.1.1. Ultra-short acting insulin
  - 11.1.2. Short-acting insulin
  - 11.1.3. Intermediate-acting insulin
  - 11.1.4. Long-acting insulin
  - 11.1.5. Premixed insulin
- 11.2. Diabetes Type Analysis (2012 2016) and Forecast (2017 2023) by Revenue (USD Mn), Y-o-Y Growth (%) and Market Share (%)
  - 11.2.1. Type 1 diabetes
  - 11.2.2. Type 2 diabetes
- 11.3. End-User Analysis (2012 2016) and Forecast (2017 2023) by Revenue (USD Mn), Y-o-Y Growth (%) and Market Share (%)
  - 11.3.1. Hospital Pharmacies
  - 11.3.2. Retail Pharmacies
  - 11.3.3. Online Pharmacies
- 11.4. Country Analysis (2012 2016) and Forecast (2017 2023) by Revenue (USD Mn),
- Y-o-Y Growth (%), and Market Share (%)
  - 11.4.1. Japan
  - 11.4.2. China
  - 11.4.3. India
  - 11.4.4. ASEAN
  - 11.4.5. Australia & New Zealand



- 11.4.6. Rest of Asia-Pacific
- 11.5. Asia-Pacific Insulin Market Opportunity Analysis Index, By Product, By Diabetes Type, By End-User and Country, 2017 2023
- 11.6. Asia- Pacific Insulin Market Dynamics Trends

### 12. LATIN AMERICA INSULIN MARKET ANALYSIS, 2012 - 2016 AND FORECAST, 2017 - 2023

- 12.1. Product Analysis (2012 2016) and Forecast (2017 2023) by Revenue (USD Mn), Y-o-Y Growth (%), and Market Share (%)
  - 12.1.1. Ultra-short acting insulin
  - 12.1.2. Short-acting insulin
  - 12.1.3. Intermediate-acting insulin
  - 12.1.4. Long-acting insulin
  - 12.1.5. Premixed insulin
- 12.2. Diabetes Type Analysis (2012 2016) and Forecast (2017 2023) by Revenue (USD Mn), Y-o-Y Growth (%) and Market Share (%)
  - 12.2.1. Type 1 diabetes
  - 12.2.2. Type 2 diabetes
- 12.3. End-User Analysis (2012 2016) and Forecast (2017 2023) by Revenue (USD Mn), Y-o-Y Growth (%) and Market Share (%)
  - 12.3.1. Hospital Pharmacies
  - 12.3.2. Retail Pharmacies
  - 12.3.3. Online Pharmacies
- 12.4. Country Analysis (2012 2016) and Forecast (2017 2023) by Revenue (USD Mn), Y-o-Y Growth (%) and Market Share (%)
  - 12.4.1. Brazil
  - 12.4.2. Mexico
  - 12.4.3. Argentina
  - 12.4.4. Venezuela
  - 12.4.5. Rest of Latin America
- 12.5. Latin America Insulin Market Opportunity Analysis Index, By Product, By Diabetes Type, By End-User and Country, 2017 2023
- 12.6. Latin America Insulin Market Dynamics Trends

# 13. MIDDLE EAST AND AFRICA INSULIN MARKET ANALYSIS, 2012 - 2016 AND FORECAST, 2017 - 2023

13.1. Product Analysis (2012 – 2016) and Forecast (2017 – 2023) by Revenue (USD



- Mn), Y-o-Y Growth (%), and Market Share (%)
  - 13.1.1. Ultra-short acting insulin
  - 13.1.2. Short-acting insulin
  - 13.1.3. Intermediate-acting insulin
  - 13.1.4. Long-acting insulin
  - 13.1.5. Premixed insulin
- 13.2. Diabetes Type Analysis (2012 2016) and Forecast (2017 2023) by Revenue (USD Mn), Y-o-Y Growth (%) and Market Share (%)
  - 13.2.1. Type 1 diabetes
  - 13.2.2. Type 2 diabetes
- 13.3. End-User Analysis (2012 2016) and Forecast (2017 2023) by Revenue (USD Mn), Y-o-Y Growth (%) and Market Share (%)
  - 13.3.1. Hospital Pharmacies
  - 13.3.2. Retail Pharmacies
  - 13.3.3. Online Pharmacies
- 13.4. Country Analysis (2012 2016) and Forecast (2017 2023) by Revenue (USD Mn), Y-o-Y Growth (%), and Market Share (%)
  - 13.4.1. Gulf Cooperation Council (GCC) Countries
  - 13.4.2. Israel
  - 13.4.3. South Africa
  - 13.4.4. Rest of MEA
- 13.5. MEA Insulin Market Opportunity Analysis Index, By Product, By Diabetes Type, By End-User and Country, 2017 2023
- 13.6. MEA Insulin Market Dynamics Trends

#### 14. COMPETITION LANDSCAPE

- 14.1. Strategic Dashboard of Top Market Players
- 14.2. Company Profiles (Introduction, Financial Analysis, Disease Type & Service Offerings, Key Developments, Strategies, and SWOT Analysis)
  - 14.2.1. Eli Lilly and Co. (U.S.)
  - 14.2.2. Merck & Co, Inc. (U.S.)
  - 14.2.3. Novo Nordisk A/S (Denmark)
  - 14.2.4. Sanofi (France)
  - 14.2.5. GlaxoSmithKline Plc. (U.K.)
  - 14.2.6. Biocon Ltd. (India)
  - 14.2.7. Wockhardt Ltd. (India)

#### 15. RESEARCH METHODOLOGY



#### 16. KEY ASSUMPTIONS AND ACRONYMS



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