

# **Chronic Total Occlusion Market Size and Forecast (2021 - 2031), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Equipment (Guide Wires, Micro Catheters, Crossing Devices, Re-Entry Devices, and Others), End User (Hospitals, Ambulatory Care Centers, and Others), and Geography**

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## **Abstracts**

According to our new research study on “Chronic Total Occlusion Market Forecast to 2031 -Global Analysis - by Equipment, End User, and Geography,” the market is anticipated to grow from US\$ 2.44 billion in 2024 and is projected to reach US\$ 4.22 billion by 2031; it is expected to register a CAGR of 8.2% during 2025-2031. Increasing aging population and the rising prevalence of cardiovascular diseases are contributing to the growing chronic total occlusion market size. However, the high cost of occlusion devices hampers the chronic total occlusion market growth. Further, technological advancements in CTO devices is expected to bring in new chronic total occlusion market trends in the coming years.

In terms of revenue, North America dominated the market in 2024. It is estimated to dominate the global market during the forecast period. The US is the largest market for chronic total occlusion in the world.

The US chronic total occlusion market is growing with the rising incidence of CVD, especially Coronary Artery Disease (CAD), in the aging population. The American Heart Association’s (AHA) 2023 Heart Disease and Stroke Statistics Update mentions that approximately 18.2 million adults in the country had CAD. The adoption of minimally invasive methods, including percutaneous coronary intervention (PCI), and the

development of sophisticated CTO-specific devices are the major driving forces for market growth. Global leaders such as Medtronic, Boston Scientific, Abbott Laboratories, and Philips Healthcare dominate the US market with their innovative devices and technologies for CTO procedures. The strong healthcare infrastructure, reimbursement policies, and emphasis on enhancing patient outcomes fuel market growth. The growing number of specialized centers and well-trained cardiologists favor the application of CTO procedures. As per the Division of Occupational Employment and Wage Statistics, there were 15,190 employed cardiologists in the US as of 2023. In addition, growing consciousness about cardiovascular health and detection of CTO at an early stage fuel the demand for these interventions.

## Chronic Total Occlusion Market Analysis

### Strategic Initiatives by Market Players to Provide Market Opportunities in Future

Companies operating in the CTO market constantly focus on strategic developments such as product approvals, collaborations, funding, agreements, and new product launches, which help them improve their sales, increase their geographic reach, and reinforce their capacities to cater to a greater than existing customer base. A few strategic initiatives by key players operating in the CTO market are mentioned below.

In February 2022, Teleflex Incorporated announced that the U.S. Food and Drug Administration (FDA) granted expanded indications for its specialty catheters and coronary guidewires, specifically for use in chronic total occlusion percutaneous coronary interventions (CTO PCI).

In June 2024, MicroPort RotaPace's Intravascular Piezoelectric Guidewire System gained NMPA approval for entry into the special review procedures for innovative medical devices. This system was co-developed by a team led by Academician Junbo Ge from Zhongshan Hospital, Fudan University.

In February 2024, BIOTRONIK introduced the Micro Rx catheter, a novel rapid exchange microcatheter developed to easily enhance guidewire support during PCI. The Micro Rx catheter is the fourth IMDS product that BIOTRONIK has introduced to the US market, contributing to a strong portfolio of devices, which includes the NHancer Rx, TrapIT, and ReCross catheters.

In October 2022, the FDA-approved NovaCross line of microcatheters (NovaCross BTK for below-the-knee treatment, NovaCross Xtreme for chronic

total occlusion treatment, and NovaCross CTO for chronic total occlusion treatment) was among the assets that Microbot Medical Inc. purchased from Nitiloop Ltd. The NovaCross devices are designed to make it easier to implant conventional and steerable guidewires intraluminally beyond stenotic lesions, including chronic complete occlusions, prior to percutaneous transluminal coronary angioplasty or stent intervention.

In April 2022, the FDA approved Transit Scientific's XO Cross Support Catheter Platform for coronary usage. The platform is intended to facilitate wire exchanges, guide and maintain a guidewire during access to the peripheral or coronary arteries, and serve as a conduit for the administration of diagnostic contrast agents or saline solutions.

In February 2022, the FDA approved an additional indication for Teleflex Incorporated's specialized catheters and coronary guidewires to be used in crossing chronic complete occlusion (CTO) during percutaneous coronary intervention (PCI).

In September 2023, Avinger, Inc. announced the full commercial launch of its Tigereye ST next-generation image-guided CTO crossing system. With the initiation of a full commercial launch, all current and prospective accounts can now order the Tigereye ST device.

Therefore, product launches, approvals, and collaborations are expected to create ample opportunities for the growth of the chronic complete occlusion (CTO) market in the coming years.

### Chronic Total Occlusion Market Report Segmentation Analysis

Key segments that contributed to the derivation of the chronic total occlusion market analysis are equipment and end user.

Based on equipment, the chronic total occlusion market is segmented into guide wires, micro catheters, crossing devices, re-entry devices, and others. The guide wires segment held the largest share of the market in 2024.

In terms of end user, the chronic total occlusion market is categorized into hospitals, ambulatory care centers, and others. The hospitals segment

dominated the market in 2024.

## Chronic Total Occlusion Market: Competitive Landscape and Key Developments

Asahi Intecc Co Ltd, Cordis Corp, Integer Holdings Corp, Boston Scientific Corp, Becton Dickinson and Co, SoundBite Medical Solutions, Medtronic Plc, Terumo Corp, Abbott, and Koninklijke Philips NV are among the key companies operating in the chronic total occlusion market.

US Census Bureau, World Health Organization (WHO), British Heart Foundation, French National Institute for Demographic Studies, National Institute of Statistics (NIS), National Library of Medicine, National Crime Records Bureau (NCRB), and National Center for Biotechnology Information are among the primary and secondary sources referred to while preparing the chronic total occlusion market report.

### Reason to buy

Save and reduce time carrying out entry-level research by identifying the growth, size, leading players, and segments in the chronic total occlusion market.

Highlights key business priorities in order to assist companies to realign their business strategies.

The key findings and recommendations highlight crucial progressive industry trends in the chronic total occlusion market, thereby allowing players across the value chain to develop effective long-term strategies.

Develop/modify business expansion plans by using substantial growth offering developed and emerging markets.

Scrutinize in-depth market trends and outlook coupled with the factors driving the market, as well as those hindering it.

Enhance the decision-making process by understanding the strategies that underpin security interest with respect to client products, segmentation, pricing, and distribution.

## Contents

### **1. INTRODUCTION**

- 1.1 The Insight Partners Research Report Guidance
- 1.2 Market Segmentation

### **2. EXECUTIVE SUMMARY**

- 2.1 Key Insights

### **3. RESEARCH METHODOLOGY**

- 3.1 Secondary Research
- 3.2 Primary Research
  - 3.2.1 Hypothesis formulation:
  - 3.2.2 Macro-economic factor analysis:
  - 3.2.3 Developing base number:
  - 3.2.4 Data Triangulation:
  - 3.2.5 Country level data:

### **4. CHRONIC TOTAL OCCLUSION MARKET LANDSCAPE**

- 4.1 Overview
- 4.2 North America PEST Analysis
- 4.3 Europe PEST Analysis
- 4.4 Asia Pacific PEST Analysis
- 4.5 Middle-East and Africa PEST Analysis
- 4.6 South and Central America PEST Analysis

### **5. CHRONIC TOTAL OCCLUSION MARKET - KEY MARKET DYNAMICS**

- 5.1 Chronic Total Occlusion Market - Key Market Dynamics
- 5.2 Market Drivers
  - 5.2.1 Increasing Aging Population
  - 5.2.2 Rising Prevalence of Cardiovascular Diseases
- 5.3 Market Restraints
  - 5.3.1 High Cost of Occlusion Devices
- 5.4 Market Opportunities

- 5.4.1 Strategic Initiatives by Market Players
- 5.5 Future Trends
  - 5.5.1 Technological Advancements in CTO Devices
- 5.6 Impact of Drivers and Restraints:

## **6. CHRONIC TOTAL OCCLUSION MARKET - GLOBAL MARKET ANALYSIS**

- 6.1 Chronic Total Occlusion Market Revenue (US\$ Million), 2021-2031
- 6.2 Chronic Total Occlusion Market Forecast Analysis
- 6.3 Market Positioning of Key Players

## **7. CHRONIC TOTAL OCCLUSION MARKET ANALYSIS - BY EQUIPMENT**

- 7.1 Guide Wires
  - 7.1.1 Overview
  - 7.1.2 Guide Wires: Chronic Total Occlusion Market - Revenue and Forecast to 2031 (US\$ Million)
- 7.2 Micro Catheters
  - 7.2.1 Overview
  - 7.2.2 Micro Catheters: Chronic Total Occlusion Market - Revenue and Forecast to 2031 (US\$ Million)
- 7.3 Crossing Devices
  - 7.3.1 Overview
  - 7.3.2 Crossing Devices: Chronic Total Occlusion Market - Revenue and Forecast to 2031 (US\$ Million)
- 7.4 Re-Entry Devices
  - 7.4.1 Overview
  - 7.4.2 Re-Entry Devices: Chronic Total Occlusion Market - Revenue and Forecast to 2031 (US\$ Million)
- 7.5 Others
  - 7.5.1 Overview
  - 7.5.2 Others: Chronic Total Occlusion Market - Revenue and Forecast to 2031 (US\$ Million)

## **8. CHRONIC TOTAL OCCLUSION MARKET ANALYSIS - BY END USER**

- 8.1 Hospitals
  - 8.1.1 Overview
  - 8.1.2 Hospitals: Chronic Total Occlusion Market - Revenue and Forecast to 2031 (US\$

Million)

## 8.2 Ambulatory Care Centers

### 8.2.1 Overview

8.2.2 Ambulatory Care Centers: Chronic Total Occlusion Market - Revenue and Forecast to 2031 (US\$ Million)

## 8.3 Others

### 8.3.1 Overview

8.3.2 Others: Chronic Total Occlusion Market - Revenue and Forecast to 2031 (US\$ Million)

## 9. CHRONIC TOTAL OCCLUSION MARKET - GEOGRAPHICAL ANALYSIS

### 9.1 Overview

### 9.2 North America

#### 9.2.1 North America Chronic Total Occlusion Market Overview

9.2.2 North America: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$ Million)

#### 9.2.3 North America: Chronic Total Occlusion Market Breakdown, by Equipment

9.2.3.1 North America: Chronic Total Occlusion Market- Revenue and Forecast Analysis - by Equipment

#### 9.2.4 North America: Chronic Total Occlusion Market Breakdown, by End User

9.2.4.1 North America: Chronic Total Occlusion Market- Revenue and Forecast Analysis - by End User

9.2.5 North America: Chronic Total Occlusion Market - Revenue and Forecast Analysis - by Country

9.2.5.1 North America: Chronic Total Occlusion Market - Revenue and Forecast Analysis - by Country

9.2.5.2 United States: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$ Million)

##### 9.2.5.2.1 United States: Chronic Total Occlusion Market Breakdown, by Equipment

##### 9.2.5.2.2 United States: Chronic Total Occlusion Market Breakdown, by End User

9.2.5.3 Canada: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$ Million)

##### 9.2.5.3.1 Canada: Chronic Total Occlusion Market Breakdown, by Equipment

##### 9.2.5.3.2 Canada: Chronic Total Occlusion Market Breakdown, by End User

9.2.5.4 Mexico: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$ Million)

##### 9.2.5.4.1 Mexico: Chronic Total Occlusion Market Breakdown, by Equipment

##### 9.2.5.4.2 Mexico: Chronic Total Occlusion Market Breakdown, by End User

### 9.3 Europe

- 9.3.1 Europe Chronic Total Occlusion Market Overview
- 9.3.2 Europe: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$ Million)
- 9.3.3 Europe: Chronic Total Occlusion Market Breakdown, by Equipment
  - 9.3.3.1 Europe: Chronic Total Occlusion Market- Revenue and Forecast Analysis - by Equipment
- 9.3.4 Europe: Chronic Total Occlusion Market Breakdown, by End User
  - 9.3.4.1 Europe: Chronic Total Occlusion Market- Revenue and Forecast Analysis - by End User
- 9.3.5 Europe: Chronic Total Occlusion Market - Revenue and Forecast Analysis - by Country
  - 9.3.5.1 Europe: Chronic Total Occlusion Market - Revenue and Forecast Analysis - by Country
  - 9.3.5.2 Germany: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$ Million)
    - 9.3.5.2.1 Germany: Chronic Total Occlusion Market Breakdown, by Equipment
    - 9.3.5.2.2 Germany: Chronic Total Occlusion Market Breakdown, by End User
  - 9.3.5.3 United Kingdom: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$ Million)
    - 9.3.5.3.1 United Kingdom: Chronic Total Occlusion Market Breakdown, by Equipment
    - 9.3.5.3.2 United Kingdom: Chronic Total Occlusion Market Breakdown, by End User
  - 9.3.5.4 France: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$ Million)
    - 9.3.5.4.1 France: Chronic Total Occlusion Market Breakdown, by Equipment
    - 9.3.5.4.2 France: Chronic Total Occlusion Market Breakdown, by End User
  - 9.3.5.5 Spain: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$ Million)
    - 9.3.5.5.1 Spain: Chronic Total Occlusion Market Breakdown, by Equipment
    - 9.3.5.5.2 Spain: Chronic Total Occlusion Market Breakdown, by End User
  - 9.3.5.6 Italy: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$ Million)
    - 9.3.5.6.1 Italy: Chronic Total Occlusion Market Breakdown, by Equipment
    - 9.3.5.6.2 Italy: Chronic Total Occlusion Market Breakdown, by End User
  - 9.3.5.7 Rest of Europe: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$ Million)
    - 9.3.5.7.1 Rest of Europe: Chronic Total Occlusion Market Breakdown, by Equipment
    - 9.3.5.7.2 Rest of Europe: Chronic Total Occlusion Market Breakdown, by End User
- 9.4 Asia Pacific
  - 9.4.1 Asia Pacific Chronic Total Occlusion Market Overview
  - 9.4.2 Asia Pacific: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$ Million)
  - 9.4.3 Asia Pacific: Chronic Total Occlusion Market Breakdown, by Equipment

9.4.3.1 Asia Pacific: Chronic Total Occlusion Market- Revenue and Forecast Analysis  
- by Equipment

9.4.4 Asia Pacific: Chronic Total Occlusion Market Breakdown, by End User

9.4.4.1 Asia Pacific: Chronic Total Occlusion Market- Revenue and Forecast Analysis  
- by End User

9.4.5 Asia Pacific: Chronic Total Occlusion Market - Revenue and Forecast Analysis -  
by Country

9.4.5.1 Asia Pacific: Chronic Total Occlusion Market - Revenue and Forecast  
Analysis - by Country

9.4.5.2 China: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$ Million)

9.4.5.2.1 China: Chronic Total Occlusion Market Breakdown, by Equipment

9.4.5.2.2 China: Chronic Total Occlusion Market Breakdown, by End User

9.4.5.3 Japan: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$ Million)

9.4.5.3.1 Japan: Chronic Total Occlusion Market Breakdown, by Equipment

9.4.5.3.2 Japan: Chronic Total Occlusion Market Breakdown, by End User

9.4.5.4 India: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$ Million)

9.4.5.4.1 India: Chronic Total Occlusion Market Breakdown, by Equipment

9.4.5.4.2 India: Chronic Total Occlusion Market Breakdown, by End User

9.4.5.5 Australia: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$  
Million)

9.4.5.5.1 Australia: Chronic Total Occlusion Market Breakdown, by Equipment

9.4.5.5.2 Australia: Chronic Total Occlusion Market Breakdown, by End User

9.4.5.6 South Korea: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$  
Million)

9.4.5.6.1 South Korea: Chronic Total Occlusion Market Breakdown, by Equipment

9.4.5.6.2 South Korea: Chronic Total Occlusion Market Breakdown, by End User

9.4.5.7 Rest of APAC: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$  
Million)

9.4.5.7.1 Rest of APAC: Chronic Total Occlusion Market Breakdown, by Equipment

9.4.5.7.2 Rest of APAC: Chronic Total Occlusion Market Breakdown, by End User

9.5 Middle East and Africa

9.5.1 Middle East and Africa Chronic Total Occlusion Market Overview

9.5.2 Middle East and Africa: Chronic Total Occlusion Market - Revenue, 2021 - 2031  
(US\$ Million)

9.5.3 Middle East and Africa: Chronic Total Occlusion Market Breakdown, by  
Equipment

9.5.3.1 Middle East and Africa: Chronic Total Occlusion Market- Revenue and  
Forecast Analysis - by Equipment

9.5.4 Middle East and Africa: Chronic Total Occlusion Market Breakdown, by End User

9.5.4.1 Middle East and Africa: Chronic Total Occlusion Market- Revenue and Forecast Analysis - by End User

9.5.5 Middle East and Africa: Chronic Total Occlusion Market - Revenue and Forecast Analysis - by Country

9.5.5.1 Middle East and Africa: Chronic Total Occlusion Market - Revenue and Forecast Analysis - by Country

9.5.5.2 Saudi Arabia: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$ Million)

9.5.5.2.1 Saudi Arabia: Chronic Total Occlusion Market Breakdown, by Equipment

9.5.5.2.2 Saudi Arabia: Chronic Total Occlusion Market Breakdown, by End User

9.5.5.3 South Africa: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$ Million)

9.5.5.3.1 South Africa: Chronic Total Occlusion Market Breakdown, by Equipment

9.5.5.3.2 South Africa: Chronic Total Occlusion Market Breakdown, by End User

9.5.5.4 United Arab Emirates: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$ Million)

9.5.5.4.1 United Arab Emirates: Chronic Total Occlusion Market Breakdown, by Equipment

9.5.5.4.2 United Arab Emirates: Chronic Total Occlusion Market Breakdown, by End User

9.5.5.5 Rest of Middle East and Africa: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$ Million)

9.5.5.5.1 Rest of Middle East and Africa: Chronic Total Occlusion Market Breakdown, by Equipment

9.5.5.5.2 Rest of Middle East and Africa: Chronic Total Occlusion Market Breakdown, by End User

9.6 South and Central America

9.6.1 South and Central America Chronic Total Occlusion Market Overview

9.6.2 South and Central America: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$ Million)

9.6.3 South and Central America: Chronic Total Occlusion Market Breakdown, by Equipment

9.6.3.1 South and Central America: Chronic Total Occlusion Market- Revenue and Forecast Analysis - by Equipment

9.6.4 South and Central America: Chronic Total Occlusion Market Breakdown, by End User

9.6.4.1 South and Central America: Chronic Total Occlusion Market- Revenue and Forecast Analysis - by End User

9.6.5 South and Central America: Chronic Total Occlusion Market - Revenue and

## Forecast Analysis - by Country

### 9.6.5.1 South and Central America: Chronic Total Occlusion Market - Revenue and

## Forecast Analysis - by Country

### 9.6.5.2 Brazil: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$ Million)

#### 9.6.5.2.1 Brazil: Chronic Total Occlusion Market Breakdown, by Equipment

#### 9.6.5.2.2 Brazil: Chronic Total Occlusion Market Breakdown, by End User

### 9.6.5.3 Argentina: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$ Million)

#### 9.6.5.3.1 Argentina: Chronic Total Occlusion Market Breakdown, by Equipment

#### 9.6.5.3.2 Argentina: Chronic Total Occlusion Market Breakdown, by End User

### 9.6.5.4 Rest of South and Central America: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$ Million)

#### 9.6.5.4.1 Rest of South and Central America: Chronic Total Occlusion Market Breakdown, by Equipment

#### 9.6.5.4.2 Rest of South and Central America: Chronic Total Occlusion Market Breakdown, by End User

## **10. IMPACT OF COVID-19 PANDEMIC ON GLOBAL CHRONIC TOTAL OCCLUSION MARKET**

### 10.1 North America

### 10.2 Europe

### 10.3 Asia-Pacific

### 10.4 Middle East and Africa

### 10.5 South and Central America

## **11. CHRONIC TOTAL OCCLUSION MARKET - INDUSTRY LANDSCAPE**

### 11.1 Overview

### 11.2 Growth Strategies in the Chronic Total Occlusion Market

### 11.3 Organic Growth Strategies

#### 11.3.1 Overview

### 11.4 Inorganic Growth Strategies

#### 11.4.1 Overview

## **12. COMPANY PROFILES**

### 12.1 Asahi Intecc Co Ltd

#### 12.1.1 Key Facts

- 12.1.2 Business Description
- 12.1.3 Products and Services
- 12.1.4 Financial Overview
- 12.1.5 SWOT Analysis
- 12.1.6 Key Developments
- 12.2 Cordis Corp
  - 12.2.1 Key Facts
  - 12.2.2 Business Description
  - 12.2.3 Products and Services
  - 12.2.4 Financial Overview
  - 12.2.5 SWOT Analysis
  - 12.2.6 Key Developments
- 12.3 Integer Holdings Corp
  - 12.3.1 Key Facts
  - 12.3.2 Business Description
  - 12.3.3 Products and Services
  - 12.3.4 Financial Overview
  - 12.3.5 SWOT Analysis
  - 12.3.6 Key Developments
- 12.4 Boston Scientific Corp
  - 12.4.1 Key Facts
  - 12.4.2 Business Description
  - 12.4.3 Products and Services
  - 12.4.4 Financial Overview
  - 12.4.5 SWOT Analysis
  - 12.4.6 Key Developments
- 12.5 Koninklijke Philips NV
  - 12.5.1 Key Facts
  - 12.5.2 Business Description
  - 12.5.3 Products and Services
  - 12.5.4 Financial Overview
  - 12.5.5 SWOT Analysis
  - 12.5.6 Key Developments
- 12.6 Becton Dickinson and Co
  - 12.6.1 Key Facts
  - 12.6.2 Business Description
  - 12.6.3 Products and Services
  - 12.6.4 Financial Overview
  - 12.6.5 SWOT Analysis

- 12.6.6 Key Developments
- 12.7 Sound Bite Medical Solutions
  - 12.7.1 Key Facts
  - 12.7.2 Business Description
  - 12.7.3 Products and Services
  - 12.7.4 Financial Overview
  - 12.7.5 SWOT Analysis
  - 12.7.6 Key Developments
- 12.8 Medtronic Plc
  - 12.8.1 Key Facts
  - 12.8.2 Business Description
  - 12.8.3 Products and Services
  - 12.8.4 Financial Overview
  - 12.8.5 SWOT Analysis
  - 12.8.6 Key Developments
- 12.9 Terumo Corp
  - 12.9.1 Key Facts
  - 12.9.2 Business Description
  - 12.9.3 Products and Services
  - 12.9.4 Financial Overview
  - 12.9.5 SWOT Analysis
  - 12.9.6 Key Developments
- 12.10 Abbott Laboratories
  - 12.10.1 Key Facts
  - 12.10.2 Business Description
  - 12.10.3 Products and Services
  - 12.10.4 Financial Overview
  - 12.10.5 SWOT Analysis
  - 12.10.6 Key Developments

## **13. APPENDIX**

- 13.1 About The Insight Partners
- 13.2 Glossary of Terms

## List Of Tables

### LIST OF TABLES

Table 1. Chronic Total Occlusion Market Segmentation
Table 2. Chronic Total Occlusion Market - Revenue, 2021- 2024 (US\$ Million)
Table 3. Chronic Total Occlusion Market - Revenue, 2025- 2031 (US\$ Million)
Table 4. Chronic Total Occlusion Market - Revenue, 2021 -2024(US\$ Million) - by Equipment
Table 5. Chronic Total Occlusion Market - Revenue, 2025 - 2031(US\$ Million) - by Equipment
Table 6. Chronic Total Occlusion Market - Revenue, 2021 -2024(US\$ Million) - by End User
Table 7. Chronic Total Occlusion Market - Revenue, 2025 - 2031(US\$ Million) - by End User
Table 8. North America: Chronic Total Occlusion Market - Revenue, 2021 - 2024 (US\$ Million) - by Equipment
Table 9. North America: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by Equipment
Table 10. North America: Chronic Total Occlusion Market - Revenue, 2021 - 2024 (US\$ Million) - by End User
Table 11. North America: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by End User
Table 12. North America: Chronic Total Occlusion Market - Revenue, 2021 - 2024 (US\$ Million) - by Country
Table 13. North America: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by Country
Table 14. United States: Chronic Total Occlusion Market - Revenue, 2021 -2024(US\$ Million) - by Equipment
Table 15. United States: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by Equipment
Table 16. United States: Chronic Total Occlusion Market - Revenue, 2021 -2024(US\$ Million) - by End User
Table 17. United States: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by End User
Table 18. Canada: Chronic Total Occlusion Market - Revenue, 2021 -2024(US\$ Million) - by Equipment
Table 19. Canada: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by Equipment

Table 20. Canada: Chronic Total Occlusion Market - Revenue, 2021 -2024(US\$ Million)  
- by End User

Table 21. Canada: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by End User

Table 22. Mexico: Chronic Total Occlusion Market - Revenue, 2021 -2024(US\$ Million) - by Equipment

Table 23. Mexico: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by Equipment

Table 24. Mexico: Chronic Total Occlusion Market - Revenue, 2021 -2024(US\$ Million) - by End User

Table 25. Mexico: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by End User

Table 26. Europe: Chronic Total Occlusion Market - Revenue, 2021 - 2024 (US\$ Million) - by Equipment

Table 27. Europe: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by Equipment

Table 28. Europe: Chronic Total Occlusion Market - Revenue, 2021 - 2024 (US\$ Million) - by End User

Table 29. Europe: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by End User

Table 30. Europe: Chronic Total Occlusion Market - Revenue, 2021 - 2024 (US\$ Million) - by Country

Table 31. Europe: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by Country

Table 32. Germany: Chronic Total Occlusion Market - Revenue, 2021 -2024(US\$ Million) - by Equipment

Table 33. Germany: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by Equipment

Table 34. Germany: Chronic Total Occlusion Market - Revenue, 2021 -2024(US\$ Million) - by End User

Table 35. Germany: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by End User

Table 36. United Kingdom: Chronic Total Occlusion Market - Revenue, 2021 -2024(US\$ Million) - by Equipment

Table 37. United Kingdom: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by Equipment

Table 38. United Kingdom: Chronic Total Occlusion Market - Revenue, 2021 -2024(US\$ Million) - by End User

Table 39. United Kingdom: Chronic Total Occlusion Market - Revenue, 2025 - 2031

(US\$ Million) - by End User

Table 40. France: Chronic Total Occlusion Market - Revenue, 2021 -2024(US\$ Million) - by Equipment

Table 41. France: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by Equipment

Table 42. France: Chronic Total Occlusion Market - Revenue, 2021 -2024(US\$ Million) - by End User

Table 43. France: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by End User

Table 44. Spain: Chronic Total Occlusion Market - Revenue, 2021 -2024(US\$ Million) - by Equipment

Table 45. Spain: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by Equipment

Table 46. Spain: Chronic Total Occlusion Market - Revenue, 2021 -2024(US\$ Million) - by End User

Table 47. Spain: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by End User

Table 48. Italy: Chronic Total Occlusion Market - Revenue, 2021 -2024(US\$ Million) - by Equipment

Table 49. Italy: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by Equipment

Table 50. Italy: Chronic Total Occlusion Market - Revenue, 2021 -2024(US\$ Million) - by End User

Table 51. Italy: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by End User

Table 52. Rest of Europe: Chronic Total Occlusion Market - Revenue, 2021 -2024(US\$ Million) - by Equipment

Table 53. Rest of Europe: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by Equipment

Table 54. Rest of Europe: Chronic Total Occlusion Market - Revenue, 2021 -2024(US\$ Million) - by End User

Table 55. Rest of Europe: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by End User

Table 56. Asia Pacific: Chronic Total Occlusion Market - Revenue, 2021 - 2024 (US\$ Million) - by Equipment

Table 57. Asia Pacific: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by Equipment

Table 58. Asia Pacific: Chronic Total Occlusion Market - Revenue, 2021 - 2024 (US\$ Million) - by End User

Table 59. Asia Pacific: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by End User

Table 60. Asia Pacific: Chronic Total Occlusion Market - Revenue, 2021 - 2024 (US\$ Million) - by Country

Table 61. Asia Pacific: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by Country

Table 62. China: Chronic Total Occlusion Market - Revenue, 2021 -2024(US\$ Million) - by Equipment

Table 63. China: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by Equipment

Table 64. China: Chronic Total Occlusion Market - Revenue, 2021 -2024(US\$ Million) - by End User

Table 65. China: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by End User

Table 66. Japan: Chronic Total Occlusion Market - Revenue, 2021 -2024(US\$ Million) - by Equipment

Table 67. Japan: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by Equipment

Table 68. Japan: Chronic Total Occlusion Market - Revenue, 2021 -2024(US\$ Million) - by End User

Table 69. Japan: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by End User

Table 70. India: Chronic Total Occlusion Market - Revenue, 2021 -2024(US\$ Million) - by Equipment

Table 71. India: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by Equipment

Table 72. India: Chronic Total Occlusion Market - Revenue, 2021 -2024(US\$ Million) - by End User

Table 73. India: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by End User

Table 74. Australia: Chronic Total Occlusion Market - Revenue, 2021 -2024(US\$ Million) - by Equipment

Table 75. Australia: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by Equipment

Table 76. Australia: Chronic Total Occlusion Market - Revenue, 2021 -2024(US\$ Million) - by End User

Table 77. Australia: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by End User

Table 78. South Korea: Chronic Total Occlusion Market - Revenue, 2021 -2024(US\$

Million) - by Equipment

Table 79. South Korea: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by Equipment

Table 80. South Korea: Chronic Total Occlusion Market - Revenue, 2021 -2024(US\$ Million) - by End User

Table 81. South Korea: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by End User

Table 82. Rest of APAC: Chronic Total Occlusion Market - Revenue, 2021 -2024(US\$ Million) - by Equipment

Table 83. Rest of APAC: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by Equipment

Table 84. Rest of APAC: Chronic Total Occlusion Market - Revenue, 2021 -2024(US\$ Million) - by End User

Table 85. Rest of APAC: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by End User

Table 86. Middle East and Africa: Chronic Total Occlusion Market - Revenue, 2021 - 2024 (US\$ Million) - by Equipment

Table 87. Middle East and Africa: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by Equipment

Table 88. Middle East and Africa: Chronic Total Occlusion Market - Revenue, 2021 - 2024 (US\$ Million) - by End User

Table 89. Middle East and Africa: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by End User

Table 90. Middle East and Africa: Chronic Total Occlusion Market - Revenue, 2021 - 2024 (US\$ Million) - by Country

Table 91. Middle East and Africa: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by Country

Table 92. Saudi Arabia: Chronic Total Occlusion Market - Revenue, 2021 -2024(US\$ Million) - by Equipment

Table 93. Saudi Arabia: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by Equipment

Table 94. Saudi Arabia: Chronic Total Occlusion Market - Revenue, 2021 -2024(US\$ Million) - by End User

Table 95. Saudi Arabia: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by End User

Table 96. South Africa: Chronic Total Occlusion Market - Revenue, 2021 -2024(US\$ Million) - by Equipment

Table 97. South Africa: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by Equipment

Table 98. South Africa: Chronic Total Occlusion Market - Revenue, 2021 -2024(US\$ Million) - by End User

Table 99. South Africa: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by End User

Table 100. United Arab Emirates: Chronic Total Occlusion Market - Revenue, 2021 -2024(US\$ Million) - by Equipment

Table 101. United Arab Emirates: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by Equipment

Table 102. United Arab Emirates: Chronic Total Occlusion Market - Revenue, 2021 -2024(US\$ Million) - by End User

Table 103. United Arab Emirates: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by End User

Table 104. Rest of Middle East and Africa: Chronic Total Occlusion Market - Revenue, 2021 -2024(US\$ Million) - by Equipment

Table 105. Rest of Middle East and Africa: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by Equipment

Table 106. Rest of Middle East and Africa: Chronic Total Occlusion Market - Revenue, 2021 -2024(US\$ Million) - by End User

Table 107. Rest of Middle East and Africa: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by End User

Table 108. South and Central America: Chronic Total Occlusion Market - Revenue, 2021 - 2024 (US\$ Million) - by Equipment

Table 109. South and Central America: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by Equipment

Table 110. South and Central America: Chronic Total Occlusion Market - Revenue, 2021 - 2024 (US\$ Million) - by End User

Table 111. South and Central America: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by End User

Table 112. South and Central America: Chronic Total Occlusion Market - Revenue, 2021 - 2024 (US\$ Million) - by Country

Table 113. South and Central America: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by Country

Table 114. Brazil: Chronic Total Occlusion Market - Revenue, 2021 -2024(US\$ Million) - by Equipment

Table 115. Brazil: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by Equipment

Table 116. Brazil: Chronic Total Occlusion Market - Revenue, 2021 -2024(US\$ Million) - by End User

Table 117. Brazil: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million)

- by End User

Table 118. Argentina: Chronic Total Occlusion Market - Revenue, 2021 -2024(US\$ Million) - by Equipment

Table 119. Argentina: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by Equipment

Table 120. Argentina: Chronic Total Occlusion Market - Revenue, 2021 -2024(US\$ Million) - by End User

Table 121. Argentina: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by End User

Table 122. Rest of South and Central America: Chronic Total Occlusion Market - Revenue, 2021 -2024(US\$ Million) - by Equipment

Table 123. Rest of South and Central America: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by Equipment

Table 124. Rest of South and Central America: Chronic Total Occlusion Market - Revenue, 2021 -2024(US\$ Million) - by End User

Table 125. Rest of South and Central America: Chronic Total Occlusion Market - Revenue, 2025 - 2031 (US\$ Million) - by End User

Table 126. Recent Organic Growth Strategies in the Chronic Total Occlusion Market

Table 127. Recent Inorganic Growth Strategies in the Chronic Total Occlusion Market

Table 128. Glossary of Terms

## List Of Figures

### LIST OF FIGURES

Figure 1. Chronic Total Occlusion Market Segmentation, by Geography

Figure 2. PEST Analysis

Figure 3. Impact Analysis of Drivers and Restraints

Figure 5. Chronic Total Occlusion Market Revenue (US\$ Million), 2021-2031

Figure 6. Market Positioning of Key Players in Global CTO Market

Figure 7. Chronic Total Occlusion Market Share (%) - by Equipment (2024 and 2031)

Figure 8. Guide Wires: Chronic Total Occlusion Market - Revenue and Forecast to 2031 (US\$ Million)

Figure 9. Micro Catheters: Chronic Total Occlusion Market - Revenue and Forecast to 2031 (US\$ Million)

Figure 10. Crossing Devices: Chronic Total Occlusion Market - Revenue and Forecast to 2031 (US\$ Million)

Figure 11. Re-Entry Devices: Chronic Total Occlusion Market - Revenue and Forecast to 2031 (US\$ Million)

Figure 12. Others: Chronic Total Occlusion Market - Revenue and Forecast to 2031 (US\$ Million)

Figure 13. Chronic Total Occlusion Market Share (%) - by End User (2024 and 2031)

Figure 14. Hospitals: Chronic Total Occlusion Market - Revenue and Forecast to 2031 (US\$ Million)

Figure 15. Ambulatory Care Centers: Chronic Total Occlusion Market - Revenue and Forecast to 2031 (US\$ Million)

Figure 16. Others: Chronic Total Occlusion Market - Revenue and Forecast to 2031 (US\$ Million)

Figure 17. Chronic Total Occlusion Market Breakdown by Region, 2024 and 2031 (%)

Figure 18. North America: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$ Million)

Figure 19. North America: Chronic Total Occlusion Market Breakdown, by Equipment (2024 and 2031)

Figure 20. North America: Chronic Total Occlusion Market Breakdown, by End User (2024 and 2031)

Figure 21. North America: Chronic Total Occlusion Market Breakdown, by Key Countries, 2024 and 2031 (%)

Figure 22. United States: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$ Million)

Figure 23. Canada: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$

Million)

Figure 24. Mexico: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$ Million)

Figure 25. Europe: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$ Million)

Figure 26. Europe: Chronic Total Occlusion Market Breakdown, by Equipment (2024 and 2031)

Figure 27. Europe: Chronic Total Occlusion Market Breakdown, by End User (2024 and 2031)

Figure 28. Europe: Chronic Total Occlusion Market Breakdown, by Key Countries, 2024 and 2031 (%)

Figure 29. Germany: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$ Million)

Figure 30. United Kingdom: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$ Million)

Figure 31. France: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$ Million)

Figure 32. Spain: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$ Million)

Figure 33. Italy: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$ Million)

Figure 34. Rest of Europe: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$ Million)

Figure 35. Asia Pacific: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$ Million)

Figure 36. Asia Pacific: Chronic Total Occlusion Market Breakdown, by Equipment (2024 and 2031)

Figure 37. Asia Pacific: Chronic Total Occlusion Market Breakdown, by End User (2024 and 2031)

Figure 38. Asia Pacific: Chronic Total Occlusion Market Breakdown, by Key Countries, 2024 and 2031 (%)

Figure 39. China: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$ Million)

Figure 40. Japan: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$ Million)

Figure 41. India: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$ Million)

Figure 42. Australia: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$ Million)

Figure 43. South Korea: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$ Million)

Figure 44. Rest of APAC: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$ Million)

Figure 45. Middle East and Africa: Chronic Total Occlusion Market - Revenue, 2021 -

2031 (US\$ Million)

Figure 46. Middle East and Africa: Chronic Total Occlusion Market Breakdown, by Equipment (2024 and 2031)

Figure 47. Middle East and Africa: Chronic Total Occlusion Market Breakdown, by End User (2024 and 2031)

Figure 48. Middle East and Africa: Chronic Total Occlusion Market Breakdown, by Key Countries, 2024 and 2031 (%)

Figure 49. Saudi Arabia: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$ Million)

Figure 50. South Africa: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$ Million)

Figure 51. United Arab Emirates: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$ Million)

Figure 52. Rest of Middle East and Africa: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$ Million)

Figure 53. South and Central America: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$ Million)

Figure 54. South and Central America: Chronic Total Occlusion Market Breakdown, by Equipment (2024 and 2031)

Figure 55. South and Central America: Chronic Total Occlusion Market Breakdown, by End User (2024 and 2031)

Figure 56. South and Central America: Chronic Total Occlusion Market Breakdown, by Key Countries, 2024 and 2031 (%)

Figure 57. Brazil: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$ Million)

Figure 58. Argentina: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$ Million)

Figure 59. Rest of South and Central America: Chronic Total Occlusion Market - Revenue, 2021 - 2031 (US\$ Million)

Figure 60. Growth Strategies in the Chronic Total Occlusion Market

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