

# **Cold Plasma in Healthcare Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Application (Wound Healing, Surgical Application and Other Medical Applications), By Region and Competition, 2020-2030F**

<https://marketpublishers.com/r/C2EA35552315EN.html>

Date: May 2025

Pages: 183

Price: US\$ 4,500.00 (Single User License)

ID: C2EA35552315EN

## **Abstracts**

### **Market Overview**

The Global Cold Plasma in Healthcare Market was valued at USD 2.14 Billion in 2024 and is projected to reach USD 4.25 Billion by 2030, growing at a CAGR of 12.11% during the forecast period. Cold plasma, a non-thermal, non-invasive ionized gas technology, is transforming modern healthcare with its wide range of applications, including wound healing, sterilization, cancer therapy, and dermatological treatments. Its ability to destroy pathogens, promote tissue regeneration, and stimulate angiogenesis without damaging healthy tissue makes it a valuable medical tool.

The market is gaining momentum as chronic disease prevalence rises globally, particularly in conditions like diabetes and cancer that require advanced, minimally invasive treatments. Cold plasma is showing promising results in managing chronic wounds and aiding infection control—especially crucial in post-pandemic healthcare strategies. Additionally, with academic and clinical research highlighting cold plasma's potential to inactivate airborne viruses almost instantly, interest has surged for respiratory therapy applications. These developments underscore the increasing adoption of cold plasma technology as a reliable, innovative therapeutic and sterilization solution across diverse medical settings.

### **Key Market Drivers**

## Increasing Chronic Diseases

The growing burden of chronic diseases such as cancer, diabetes, and cardiovascular disorders is a major factor driving demand for cold plasma technologies in healthcare. According to the World Health Organization, noncommunicable diseases (NCDs) accounted for over 43 million deaths in 2021, with a disproportionate impact in low- and middle-income countries.

Cold plasma has emerged as a promising treatment modality for addressing the complications arising from these conditions. For instance, in diabetic patients, chronic ulcers present a persistent challenge; cold plasma accelerates healing by enhancing tissue oxygenation and reducing microbial load. Similarly, its application in oncology helps target cancer cells while sparing healthy tissue, offering an advanced alternative to traditional therapies. As healthcare systems globally aim to manage rising NCDs with precision and minimal side effects, the role of cold plasma technologies is becoming increasingly significant.

## Key Market Challenges

### Integration into Healthcare Workflows

One of the critical challenges in the cold plasma healthcare market is integrating these advanced technologies into established clinical workflows. Many healthcare facilities operate within strict procedural frameworks and require seamless compatibility with existing medical infrastructure.

Adopting cold plasma devices involves not only purchasing equipment but also modifying infrastructure, allocating physical space, and ensuring adequate training for clinical staff. These adjustments may be resource-intensive and time-consuming, particularly in smaller hospitals or facilities in developing regions. Without smooth integration, the potential clinical benefits of cold plasma may be underutilized or delayed, hampering market expansion despite the technology's efficacy.

## Key Market Trends

### Data-Driven Healthcare

The shift toward data-driven healthcare is reshaping how cold plasma devices are utilized. The integration of smart sensors and real-time monitoring capabilities allows

healthcare providers collect treatment data—such as gas flow, temperature, and dosage metrics—during procedures.

These insights enhance treatment precision and improve outcomes. For instance, in wound care, real-time feedback helps clinicians adjust parameters on-the-fly to accelerate healing. In oncology, data analytics can optimize dosage delivery to ensure cancer cells are effectively targeted. The ability to personalize treatment protocols based on real-time patient data marks a critical step in aligning cold plasma technology with the broader movement toward precision medicine and connected healthcare systems.

### Key Market Players

Neoplas med GmbH

U.S. Medical Innovations

Terumo Medical Corp

Adtec Plasma Technology Co., Ltd

Apyx Medical Corp

Nordson Corp

Europlasma NV

Terraplasma GmbH

Henniker Plasma

Smith & Nephew plc

### Report Scope:

In this report, the Cold Plasma in Healthcare Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

## Cold Plasma in Healthcare Market, By Application:

Wound Healing

Surgical Application

Other Medical Applications

## Cold Plasma in Healthcare Market, By Region:

North America

United States

Canada

Mexico

Europe

Germany

United Kingdom

Italy

France

Spain

Asia Pacific

China

India

Japan

South Korea

Australia

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

## Competitive Landscape

**Company Profiles:** Detailed analysis of the major companies present in the Cold Plasma in Healthcare Market.

## Available Customizations:

Cold Plasma in Healthcare Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## Company Information

Detailed analysis and profiling of additional market players (up to five).

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