

Cold Plasma Implant Treatment Devices Market Size To Reach USD 0.072 Billion, Globally, By 2030

Surge in orthopedic conditions, rise in dental caries, and enhanced antimicrobial efficacy, and prevention of cross-contamination drive the market growth.

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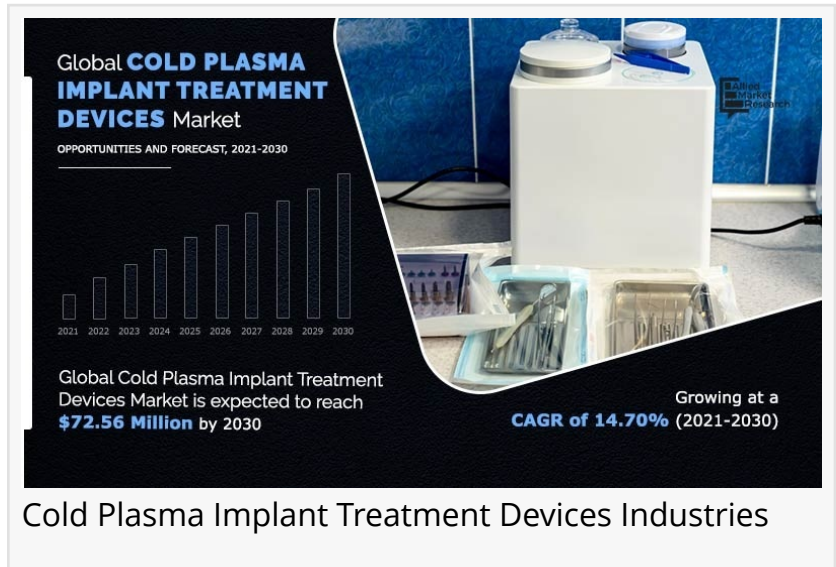
The global cold plasma implant treatment devices market size was valued at \$0.019 billion in 2020 and is projected to reach \$0.072 billion by 2030 registering a CAGR of 14.70% from 2021 to 2030. Cold plasmas are

highly effective in inhibiting the growth of microorganisms. The utilization of these plasmas in dental applications is a relatively recent topic. Furthermore, plasma treatment exhibits the potential to be a revolutionary tissue-saving approach, as it allows for cleaning of uneven structures and tiny channels in diseased tooth. Low-temperature plasma, on the other hand, is a potential way for eliminating germs, offering an alternative to traditional technologies that have a number of limitations.

The factors driving the growth of the global cold plasma implant treatment devices market are surge in elderly population, technological advancements in cold plasma implant treatment devices, increase in orthopedic conditions, and rise in cases of dental caries. However, high cost and lack of skilled professional hamper the market growth. Conversely, rise in awareness related implant treatment devices is expected to provide potential opportunities for the expansion of the global market during the forecast period.

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The outbreak disrupted and forced several industries to halt their activities temporarily, including several subdomains of healthcare. Similarly, the cold plasma implant treatment devices



industry was impacted negatively. Major players in the market were facing supply chain interruptions and the demand for products was significantly reduced.

In 2020, hospitals and clinics experienced a notable decline in surgical procedural volumes worldwide, as healthcare systems redirected their resources to meet rise in requirements of COVID-19 patients. In addition, public health bodies across the world have suggested rescheduling or suspending elective surgeries throughout the pandemic phase. In addition, several orthopedic and dental elective procedures were halted.

On the basis of type, the global cold plasma implant treatment devices market is categorized into handheld devices and commercial systems. Commercial system garnered the largest share of the global cold plasma implant treatment devices market in 2020, and is expected to remain dominant throughout the forecast period. Owing to increase in commercial systems which are used on large scale such as in pharmaceutical or medical device companies for implant treatment.

The medical devices companies segment is expected to register the highest growth rate from 2020 to 2030, owing to increase in incidence of chronic diseases, rise in awareness about cold plasma implant treatment, and surge in healthcare expenditure. Moreover, increase in R&D investments rise in increase in use of cold plasma in dentistry & orthopedic implants are other major factors that notably contribute toward the growth of the cold plasma implant treatment devices market.

The global cold plasma implant treatment devices market is segmented into application, type, end user, and region. The applications covered in the study include orthopedic implants and dental implants. On the basis of type, the market is segregated into handheld devices and commercial systems. Depending on end user, it is fragmented into medical devices companies, hospitals & clinics and others. Region wise, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

North America garnered the largest share of the global cold plasma implant treatment devices market in 2020, and is expected to remain dominant throughout the forecast period. This is attributed to the presence of large population base, increase in awareness cold plasma implant treatment, and rise in healthcare expenditure

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The Major Key Players Are:

AdtecRF, AFS Entwicklungs+Vertriebs GMBH, Europlasma NV, Plasmaone Medical Systems, Plasmawise, Relyon Plasma GMBH, Novaplasma, Nordson Corporation, Tantec A/S, and Terraplasma GMBH.

Key Findings Of The Study:

- By application, the dental implant segment garnered the largest share in the global market in 2020.
- On the basis of application, the dental implants was the major shareholder in 2020, and expected to remain dominant throughout the forecast period.
- Depending on type, the commercial systems segment dominated the global cold plasma implant treatment devices market in 2020, and is anticipated to continue this trend during the forecast period.
- Region wise, Asia-Pacific is expected to exhibit highest CAGR of 17.2% during the forecast period.

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