

Dental Caries Detector Market- Growth, Trends, Covid-19 Impact, and Forecasts (2023 - 2028)

Market Report | 2023-01-23 | 116 pages | Mordor Intelligence

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Report description:

The dental caries detector market is projected to register a CAGR of 8.8% during the forecast period (2022-2027).

The coronavirus disease 2019 (COVID-19) pandemic has significantly impacted the healthcare system, particularly dental care. COVID-19, caused by the coronavirus that causes severe acute respiratory syndrome type 2 (SARS-CoV-2), is assumed to be transmitted by close contact via respiratory droplets and aerosols. Dentistry is hypothesized to be linked to the nosocomial spread of infection due to certain characteristics of dental care, such as aerosol generation and close closeness to patients.

The COVID-19 epidemic has wreaked havoc on various industries, with dentistry being one of the hardest hits. The epidemic of coronavirus disease 2019 (COVID-19) essentially shut down around 198,000 active dentists and dental specialists in the United States, according to an article published in August 2020 titled "COVID-19 and Dentistry: Challenges and Opportunities for Providing Safe Care."

Furthermore, many dental clinics see a decline in patient footfall due to the deep cleaning necessary following most procedures. As a result, the pandemic has had a twofold cost impact on dentists: on the one hand, increased expenditures and, on the other, decreased revenue. However, the COVID-19 epidemic has introduced new technologies and practice approaches to the dental sector. Tele-dentistry is intended to revolutionize the way dental treatment is delivered. Thus, the market is expected to see positive changes in the safe delivery of dental care, and an increase in the cost of availing care is imminent.

The market is primarily driven by increased dental caries and the need to treat them worldwide. As per a March 2020 update by the World Health Organization (WHO), it is estimated that oral diseases affect nearly 3.5 billion people globally, especially severe periodontal (gum) disease. Also, an article titled "Dental Tourism 2021: Get Cheaper Dental Implants and Veneers Abroad,"

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published in Dentaly.org in December 2021, stated that dental implant tourism is a growing business attributed to cost savings. In addition, the World Health Organization (WHO) updated in March 2020, estimates that oral disorders impact approximately 3.5 billion people globally, and severe periodontal (gum) disease, which can lead to tooth loss, is also highly common.

The major causes of dental caries, the most frequent type of chronic disease seen globally, are changes in lifestyle owing to urbanization, excessive consumption of cigarettes, alcohol, and a poor diet, as well as a high intake of sugar. The demand for dental care has increased as the senior population has grown. According to Globe Demographic Prospects, by 2050, one in every six individuals in the world will be over the age of 65, up from one in every eleven in 2019, resulting in a population pool of around 1.5 billion people over the age of 65. With the growing geriatric population, the prevalence of dental diseases in these people are expected to increase and hence, the demand for dental services has observed a surge thereby, the market is expected to boost over the forecast period.

?Another element driving the market's growth is increasing technical advancements in dental caries diagnosis. For example, Near-Infrared (NIR) Trans-illumination and Digital Imaging Fiber Optic Trans-illumination (DIFOT) have made it possible to interpret images of interproximal lesions in a highly transparent and exact manner. This trend is likely to have a positive impact on the market studied.

However, the availability of alternative procedures for diagnosing dental caries is one of the major factors restraining the market growth.

Dental Caries Detector Market Trends

The Laser Fluorescent Caries Detector is Expected to Hold a Major Market Share in the Dental Caries Detector Market

Laser fluorescence has become generally acknowledged as an early caries detection approach since it has a high accuracy of more than 90% and is less invasive than x-rays. Diagnodent, a laser preventive device, accurately reports bone density tests. Compared to teeth with lesser bone density, teeth with higher bone density reflect less light. Teeth with lower densities are more susceptible to decay, and the dentist can prevent decay with fluoride treatments or at-home dental hygiene products.

Besides, the launch of technologically advanced products supports market growth. For instance, in January 2021, Polaroid HealthCare introduced a new Polaroid P31 Caries Detector. With only one push of the capture button, the Polaroid P31 is the first Full HD 1920 x 1080P Caries Detection gadget that allows the user to view all three techniques of visible caries detection simultaneously.

Each detection mode has its own benefits and drawbacks and may or may not be suitable for every case. The P31 solves this problem by recording a White light (natural color) image, a Fluorescence image, and a Transillumination image and placing them side by side to compare them and gain the most information that aids in making an informed decision regarding the needed treatment plan. These factors are expected to boost the segment's growth.

North America is Expected to Hold a significant share in the market and is expected to do the Same in the Forecast Period.

North America dominated the market and is expected to expand at a significant CAGR in the forecast period. This growth is attributed to the rising geriatric population, strong medical infrastructure, well-established reimbursement policies, key market players, and preventive and restorative dental treatment advancements.

Moreover, according to the American Dental Association updated in July 2021, 85% of individuals in the United States truly value dental health and consider oral health an essential aspect of overall care. Combining all these factors will make North America the

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most promising, high-growth market in the forecast period.

From the initial shutdown in March 2020 to the current day, the COVID-19 pandemic has significantly influenced the dentistry profession. The main consequence of the pandemic on dental practices in Canada, according to an article published in February 2021 titled "The Biggest Impact of COVID-19 on Dentistry," has been a decline in revenue. As dentists could not practice during the initial lockdown, revenue suffered the most. However, as the country approaches a year of living with the pandemic, it has been demonstrated that dentistry is a critical service, and practices have been able to stay open despite new lockdowns around the country."

Also, as per another article published in September 2020, "A New Study Explores COVID-19's Significant Impact on the Dental Industry," the COVID-19 pandemic has profoundly impacted the health care system, including the dental industry. When the pandemic first became rampant in the United States in March and April, many dental practices closed except for emergencies. Even after they reopened, changes were noticeable. According to an American Dental Association poll of dentists taken the week of Aug. 10, 98.9% of respondents were open, but only 47.6% reported "business as usual"; 51.3% were open but had "lower patient volume than usual."

During the pandemic, however, dentists have resorted to the model that does not require an in-person intermediary. Some dentists set up telehealth services to provide virtual care to their patients during the earlier shutdown in 2020. Also, in April 2020, the ADA disseminated interim guidelines on billing and coding for teledentistry visits to facilitate the use of teledentistry during the pandemic.

Furthermore, the Centers for Disease Control and Prevention (CDC) strives to eliminate cavity rate inequities and incorporate oral health programs into chronic disease prevention and medical care. North America will emerge as the most potential, high-growth market in the projection term due to the confluence of these variables.

Dental Caries Detector Market Competitor Analysis

The dental caries detector market is fragmented and competitive and consists of several major players. Some of the players operating in the market are Kuraray Europe GmbH, AdDent Inc., Air Techniques Inc., Centrix, Inc., DentLight, Inc., Hu-Friedy Mfg. Co., Dentsply Sirona, Acteon Group, Quantum Dental Technologies Inc., Kavvo Dental, DENTMATE, ORTEK-ECD, and TinMan Dental Supplies Inc.

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

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