

## A brief look on dental issues in European/international newspapers

# Dental News

At this point we would like to give you a brief glance of the world of European public media that have focused on dental topics recently.

The Irish News on 2 March 2023:

**How common prescription pills could make your dental implants fall out. Dental implants can interact with all sorts of prescription medication. It is vital that your dentist knows about your medical history and medicine you are taking, writes Sophie Freeman.**

Could your prescription pills affect the outcome of dental implant surgery? It's a problem highlighted by a recent study from dentists in Spain.

They found that people who were taking antidepressants—specifically, selective serotonin reuptake inhibitors (SSRIs)—at the time of their surgery, and for at least one year beforehand, had a more than 4.5-fold increased risk of their implants failing.

The 170 patients in the study were taking some of the most commonly prescribed SSRIs in the UK, such as citalopram, escitalopram, fluoxetine, fluvoxamine, paroxetine and sertraline.

Dental implants are replacement tooth roots, where a metal screw is placed directly into the jaw bone, providing a foundation for a false tooth to be fitted on top.

They are not usually provided on the NHS and can cost thousands to have done privately.

A 'failed' implant is defined as the implant falling out or moving, or the occurrence of bone loss, pain, or pus forming.

The researchers, from the Complutense University of Madrid, suggested that SSRIs may affect bone metabolism—i.e. its production and breakdown.

Normally, the body lays new bone directly on the implant surface, making it secure—a process called osseointegration. But this may not happen with SSRIs, resulting in the implant not integrating with the bone.

The drugs can also cause teeth-grinding, which can put pressure on implants, said the researchers in the *British Journal of Oral and Maxillofacial Surgery*. The medication can alter levels of the brain chemical dopamine, which is involved in muscle control.

Antipsychotics—prescribed for bipolar disorder, severe depression and schizophrenia—may also cause issues for dental implants, as they can cause teeth-grinding, too.

In a 2019 report in the journal *Australian Prescriber*, Geraldine Moses, a consultant pharmacist to the Australian Dental Association, wrote that "bruxism [i.e. teeth-grinding] is an under-recognised adverse drug reaction particularly associated with use of antipsychotics and SSRIs".

How worried should people be if they're taking these prescription medications and have had or intend to have dental implants?

Prof. Justin Durham, chief scientific adviser at the British Dental Association, described the findings as "interesting", but said that more research was needed before definitive conclusions were drawn, and clinical guidelines would not be changing based on the outcomes of the study.

Transparency Market Research Inc.

## PEEK Dental Implants Market Value to Surpass US\$84.9 Million by 2031.

### Rise in demand for PEEK dental implants in dental clinics is propelling the market

15 February, 2023 10:30 ET

Wilmington, Delaware, United States (GLOBE NEWSWIRE)

Source: *Transparency Market Research*

According to a study published by Transparency Market Research, the global PEEK dental implants market is expected to grow at a CAGR of 6.2% during the forecast period between 2022 and 2031.

The prevalence of dental disorders has increased among consumers of different age groups in the past few years. Hence, demand for products such as polyetheretherketone (PEEK) dental implants in dental procedures has increased. PEEK dental implant has features such as high strength, superior biocompatibility, and lightweight, which has made these implants a suitable choice over other products.

Advancements in three-dimensional printing technology have helped obtain improved, customised PEEK

dental implants. An increase in demand for these products is likely to drive industry growth during the forecast period.

Leading players are gaining an edge over competitors and generating revenue by launching new PEEK dental implants. Additionally, prominent players are collaborating with other players to expand their presence and improve revenue share.

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#### Key Findings of Market Study

- **Rise in Usage of Dental Bridges to Replace Missing Teeth:** Based on product, the global market has been classified into dental bridges, dental abutments, dental dentures, and dental crowns. The dental bridges segment emerged as the dominant segment in 2021, as these are more reliable and cost-effective than other products. Dental bridges can be customised to the shape, size, and colour of the teeth. Furthermore, dental bridges can be easily fabricated and installed with fewer visits to dentist. These factors are likely to augment the segment.
- **Increase in PEEK Dental Implants Demand in Dental Clinics:** In terms of end-use, the global market has been divided into hospitals, dental clinics, and others. The dental clinics segment is projected to account for the dominant market share during the forecast period, as these facilities offer services such as placement of PEEK dental implants. Dental clinics can be accessed easily by patients and are equipped with modern technology to conduct the desired dental procedures.

#### Key Drivers

- Rise in need for missing teeth replacement among the geriatric population is driving the PEEK dental implants market
- An increase in demand for cosmetic procedures globally is anticipated to boost market demand during the forecast period

#### Regional Insights

- Europe is projected to emerge as the leading region during the forecast period. Increase in awareness in Germany and the U.K. about the advantages of using dental implants to improve dental health is expected to accelerate market development in the region
- Asia Pacific is anticipated to witness significant growth during the forecast period due to rise in dental tourism, availability of cost-efficient dental procedures, and the production of new materials for dental implants in India and China