

# Annual World Dentists Summit

and

2<sup>nd</sup> Annual Congress on

## Dental Health and Oral Care

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### The impact of smoking on dental implants and various surgical procedures

Smoking is a prevalent behavior in the population. Although dental implant therapy is considered a predictable treatment modality with reported high survival and success rates, biological complications do occur and a number of risk factors have been involved. Tobacco smoking is related to many health risks affecting general & oral health. In smokers, increased plaque accumulation, higher incidence of gingivitis and periodontitis, higher rate of tooth loss and increased resorption of the alveolar ridge have been found in the oral cavity. Smoking may adversely affect wound healing and thus jeopardize the success of bone graft and dental implants. Bone graft and sinus lift surgery are both common and well-documented procedures in dental implant placement. Toxic by-products of cigarette smoking such as nicotine, carbon monoxide and hydrogen cyanide as well as heat have been implicated as risk factors for impaired healing and thus, may affect the success and complications of the surgical procedures. The carbon monoxide released during cigarette smoking lowers oxygen tension in tissues by displacing oxygen from hemoglobin. Nicotine, which has been found in ample concentrations in saliva and crevicular fluid, has been reported to have a negative impact on the bone regeneration process. Moreover, the viability of polymorphonuclear neutrophils and the phagocytosis of opsonized *Candida albicans* are reported to be significantly lower in smokers than in non-smokers. A higher degree of complication or implant failure rates were found in smokers with and without bone grafts. The relationship between smoking and implant-related surgical procedures, including the incidence of complications associated with these procedures, will be described and discussed based on relevant literature and results from recent studies.

### Biography

Dr. Dhwani Gohil has completed her BDS in 2008 from the Bharti Vidyapeeth University in Pune. She further pursued Masters in dental surgery in Periodontology and Oral Implants from Rajasthan University of Health Sciences, Jaipur in 2013. Her passion for dentistry didn't stop here. In 2017 she completed Fellowship in Aesthetic Dentistry from University of Greifswald, Germany. She has publication in international journal and has been serving her community as Periodontist for over a decade.



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