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## IMPLANT DENTISTRY IN MEDICALLY COMPROMISED PATIENTS- A REVIEW

DR. ANKITA SINGH\*, DR. RAJUL VIVEK\*\* AND PROF. T. P. CHATURVEDI\*\*\*

### *Declaration*

The Declaration of the authors for publication of Research Paper in The Indian Journal of Research Anvikshiki ISSN 0973-9777 Bi-monthly International Journal of all Research: We, *Ankita Singh, Rajul Vivek and T. P. Chaturvedi* the authors of the research paper entitled IMPLANT DENTISTRY IN MEDICALLY COMPROMISED PATIENTS- A REVIEW declare that , We take the responsibility of the content and material of our paper as We ourself have written it and also have read the manuscript of our paper carefully. Also, We hereby give our consent to publish our paper in Anvikshiki journal , This research paper is our original work and no part of it or it's similar version is published or has been sent for publication anywhere else. We authorise the Editorial Board of the Journal to modify and edit the manuscript. We also give our consent to the Editor of Anvikshiki Journal to own the copyright of our research paper.

### *Introduction*

Systemic conditions may be treated with medications or other therapy potentially affecting implants and the tissues carrying them. An existing systemic disease or ongoing systemic therapy may complicate or contra-indicate implant dentistry. An increased knowledge of the underlying disease process has improved the management of patients suffering from bone metabolism abnormalities, diabetes mellitus, xerostomia, and ectodermal dysplasia.

The purpose of this review was to evaluate the impact of systemic diseases and their treatment on the success of osseointegration therapy. This review aims to compile and critically discuss current knowledge of the clinically relevant impact of the most common systemic diseases on the success of implant therapy.

### *1) Metabolic Bone Disease*

Deposition of bone during periodontal regeneration for the purpose of supporting dental implants, however, may depend upon cellular mechanisms that are determined, in part, by systemic, *i.e.*, genetic, molecular, or pharmacological factors associated with low bone mass.<sup>1</sup>

### *Osteoporosis*

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Osteoporosis is a skeletal condition characterized by decreased mineral density (mass/volume unit) of normally mineralized bone.<sup>2</sup> The World Health Organization has established diagnostic criteria for osteoporosis based on bone density measurements determined by dual energy x-ray absorptiometry.<sup>3</sup>

The concern that dental implants are at an increased risk for failure in osteoporotic patients is based on the assumption that the impaired bone metabolism affects the mandible or maxilla in a manner similar to its effects on other bones.<sup>4</sup> However, since a potential relationship between osteoporosis and decreased oral bone mass or density is controversial<sup>5,6,7,8</sup>, it is actually not easy to assess whether bone quantity and quality in the mandible and maxilla parallel those in the rest of the skeleton.<sup>4,9</sup>

Very few investigators have studied dental implants in individuals with metabolic bone disease, especially osteoporosis.<sup>10</sup> Case reports have indicated that dental implants can be successfully placed in osteoporotic patients.<sup>10</sup> Implant success has been reported in glucocorticoid-dependent patients,<sup>11,12</sup> even in those with steroid-induced osteoporosis, as well as in patients suffering from severe osteoporosis and chronic polyarthritis.<sup>13,14</sup>

Prior to implant surgery, a careful assessment of nutrition and systemic health in patients at risk for metabolic bone disease is recommended.<sup>15</sup> Patients should undergo an endocrinologic, orthopedic, or obstetric examination and be treated, if necessary. In cases of insufficient bone volume, the implant sites should be augmented before or during implant surgery.<sup>16</sup>

In addition, the occlusal load should be properly distributed throughout the dentition to avoid overloading the implant, which may contribute to implant loss. The healing period should be extended by 2 months, i.e., 8 vs. 6 months in the maxilla and 6 vs. 4 months in the mandible<sup>10,17</sup> before construction of the prosthodontic appliance. Preference should be given to implant designs that will have close bone-implant contact on insertion to ensure primary stabilization in less dense osteoporotic bone.

## *II) Diabetes Mellitus*

Diabetes mellitus is associated with a wide range of systemic complications such as retinopathy, nephropathy, neuropathy, micro- and macrovascular disease, and altered wound healing.<sup>18</sup> In the oral cavity, diabetes mellitus is associated with xerostomia, increased levels of salivary glucose, swelling of the parotid gland, and an increased incidence of caries and periodontitis.<sup>18,19</sup>

The risk for developing periodontitis in type 2 diabetics is 2.9 to 3.4 times higher than in non-diabetics.<sup>21</sup> Although there has been some conflicting evidence, this increased susceptibility to periodontitis may be due to inadequately controlled or non-controlled diabetic patients being more prone to infection<sup>22</sup> due to compromised host defense systems, *e.g.*, significantly lower chemotaxis, phagocytosis, and decreased bacterial killing of PMNs.<sup>23,24,25</sup> In addition, microvascular disease may adversely affect the blood supply and also contribute to the high susceptibility of diabetics to infection.<sup>22,26</sup>

Several studies have specifically addressed the failure rate of dental implants in the diabetic patient. In various retrospective studies,<sup>27,28,29,30</sup> the observed implant success rates ranged from 85.6%<sup>28</sup> to 94.3%.<sup>27</sup> To what extent the duration of diabetes mellitus is associated with implant failure needs to be elucidated, since the present data are equivocal.<sup>28,31</sup> The placement of dental implants in diabetic patients remains controversial. Screening for diabetes is recommended to increase the chances of successful osseointegration. Poorly controlled diabetic patients are more difficult to manage, and a delay in surgery is recommended until better control is achieved.<sup>29</sup> The placement of dental implants in patients with metabolically controlled diabetes appears to be just as successful as in the general population.<sup>32</sup>

### III) Xerostomia

The most prominent causes of reduced salivary flow are therapeutic pharmaceutical side-effects.<sup>33</sup> It can be induced by over 400 drugs, including tricyclic antidepressants, antihistamines, and diuretics.<sup>34</sup> A decrease in salivary flow rate can also be accompanied by a change in salivary composition. These changes and the reduced antibacterial action of the saliva itself lead to a favorable environment for the growth of bacteria,<sup>35,36</sup> and to decreased bacterial clearance in the oral cavity.<sup>37</sup> In addition to bacterial infections, patients with xerostomia often suffer from fungal infections, *e.g.*, recurrent oral candidiasis.<sup>36</sup> In xerostomia, the lack of adhesive function can preclude the development and maintenance of an effective denture seal and can have an adverse effect on successful prosthetic reconstruction.<sup>38</sup> Moreover, the risk of candidiasis developing is higher in patients wearing removable.<sup>39,40</sup> Accordingly, in patients with severe xerostomia, fixed implant supported bridges may be the preferred treatment modality.<sup>41</sup> Patients wearing implant-supported overdentures should be instructed to take the dentures out at night, since candida species can lodge in the denture acrylic.<sup>42</sup>

When implants are considered to be viable therapeutic options in patients with xerostomia, it seems prudent for clinicians to adhere to the following guidelines. Prior to implant placement, the underlying cause of the xerostomia needs to be properly diagnosed and treated. Oral bacterial infections such as periodontitis, caries, or fungal infections such as candidiasis should be thoroughly treated prior to implant placement. After implant placement, maintenance intervals should be shortened to prevent the development of peri-implantitis due to the increased plaque formation in these patients. Stimulation of salivary flow can be achieved by either physiological or pharmacological means.

### IV) Ectodermal Dysplasias

Ectodermal dysplasias (ED) represent a rare group of inherited disorders that occur in approximately 1 *per* 100,000 live births.<sup>43</sup> In patients with ED, abnormal dentition with hypodontia or, more rarely, anodontia is the most common intra-oral feature. Dental treatment aimed at functional, esthetic, and psychological rehabilitation is therefore an essential part of the management of ED and should start early in the patient's life.<sup>44</sup> Conventional prosthodontic treatment (complete dentures, overdentures, or a combination of bridgework and removable partial dentures) often faces severe problems due to anatomical abnormalities of existing teeth and alveolar ridges, resulting in poor retention and instability of prostheses.<sup>45,46</sup> In children with ED where no success can be achieved with conventional prosthetic appliances, implant therapy appears to be a viable option. There are only a few case reports in the literature about implants in children with ectodermal dysplasias, these reports indicate that implants are a successful adjunct to oral rehabilitation.<sup>44,47,48,49,50</sup> As there are only a very few long-term reports of implant therapy in children with ectodermal dysplasia and its effects on the development of the maxillofacial structures. Therefore, it is recommended that implant installation be postponed whenever possible until the patient's skeletal and dental growth has been completed.<sup>51,52,53</sup>

### Conclusion

Clinicians must temper their enthusiasm for implant dentistry with thorough knowledge and understanding of the physiologic implications in the medically compromised patient and therefore additional reliable, clinically relevant, information is needed. In line with these implications, endosseous implant therapy can greatly improve the function and esthetics of carefully selected partially or completely edentulous patients.

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