Public Since come teeth of re	ntal, Mini-Implants
Since come teeth of re	ation Details
of re	e ancient times, it has been a challenge to e up with the best way to replace missing
	Previously, dentures were the standard way placing lost teeth. Science, technology, and archers have provided choices for better care
to so	eth and understanding of oral health, leading lutions for most oral problems. cointegration has become the focus of modern antology, leading to the introduction and
refin impl	ement of the osseointegrated root form ant. Available implants vary in diameter from nm to 7 mm. The mini implant is a dental
(less	ant that is fabricated with a reduced diameter than 3 mm) and a shorter length but with the biocompatible material as compared with
redu narro	dard dental implants. Mini implants present a ced diameter (less than 3 mm), while bw/conventional diameter implants typically a diameter greater than 3 mm. Therefore, the
use o	of mini implants to retain overdentures les the use of less-complex surgical niques since the reduced diameter of the
impl bone	ant permits its placement in areas with low thickness. These implants are associated high survival rates, favorable marginal bone
of pa	and increased satisfaction and quality of life atients. The quantity and quality of bone e available in the jaw typically define the
num	ber of implants. Overdentures retained by rentional implants exhibit good long-term
cost,	difficulty with placing the implant in ced buccolingual dimensions of bone without
preso	ence of chronic systemic diseases that can ent most advanced surgeries such as bone as and lateralization of the inferior alveolar
nerv	e. Concomitantly, sometimes it is not ssary to open flaps, decreasing morbidity ag the postoperative period. These aspects are
acce	e of the attractive factors that increase patient ptance of mini implant treatments.
Mini	dental implants can be compared to rentional implant systems. They are made of
usua	piece; however, conventional implants lly consist of two parts, the implant and the ment. Mini implants have a one-piece
dent	ium screw with a ball-shaped head for ure stabilization or a square prosthetic head ixed applications, instead of the classic
gum	ment. Mini implants are protruded over the surface when they are placed into the bone; rentional implants are placed under the gums.
Mini	cations implants should be considered for retaining
whei Mini	denture prosthesis as an alternative treatment in standard implant placement is not possible. I implants may be considered for the
dissa have	bilitation of patients who express tisfaction with conventional dentures and limitations regarding the placement of
repla Mult	dard implants. They are indicated for accement of the teeth in a narrow ridge. Tiple implants can be used for removable full artial denture stabilization, and are offered at
a lov	ver cost. These can be acceptable for patients limited economic capabilities. Mini implants e edentulous or partially edentulous arch are
bone tradi	eated when the facial-lingual width of the is insufficient for the placement of a tional width implant. Mini implants are also
palat inter	in the anterior maxilla because of decreased to-labial bone width and/or insufficient dental space. In the atrophic posterior dible, insufficient buccolingual bone width is
the c	common indication for mini-implant ement.
Mini	ntraindications implants should be avoided for patients who nedically unfit for the treatment.
Pros	pective patients must be thoroughly uated for all known risk factors and litions related to oral surgical procedures and
subs Cont	equent healing before any clinical treatment. craindications include but are not limited to following:
•	Vascular conditions Uncontrolled diabetes Clotting disorders
•	Anticoagulant therapy Metabolic bone disease Chemotherapy or radiation therapy
•	Chronic periodontal inflammation Insufficient soft tissue coverage Metabolic or systemic disorders associated
	with wound and/or bone healing Use of pharmaceuticals that inhibit or alter natural bone remodeling Disorders inhibiting patient ability to
•	Disorders inhibiting patient ability to maintain adequate daily oral hygiene Uncontrolled parafunctional habits Insufficient bone height and/or width
•	Insufficient interarch space (not always placed in the narrow alveolar ridge)
usua unpr	lentulous arches, more than two implants are lly needed due to narrow the diameter, the edictability of survival, and the lack of ntific understanding. Treatment of children is
not r	ecommended until growth is finished and hyseal closure has been completed.
Preo	hnique perative planning includes a maximum of
mini reco	mum requirement, a Cone Beam CT scan is mmended for 3D planning especially in cases very narrow ridges. Raising a flap or
flapl flapl	ess; If there is sufficient width of the ridge a ess transgingival technique for the pilot drill essible. When however a narrow ridge of
exten	nsive soft tissue is present a minimal flap stal incision) is recommended to reveal the e. This would allow exact placement of the
The	ants at the correct angulation in the bone. mini dental implant system utilizes a self- ing threaded screw design and employs
place	mally invasive surgical intervention. Implant ement involves the following procedure: The and right mental foramen are marked with an
antei most	-oral skin marker. The ridge is marked 7 mm rior of the mental foramen to indicate the distal implant size. This safety zone ides a potentially present 3 to 5 mm anterior
loop	and a 2 mm security margin. nplications
•	primary disadvantages of mini implants for nitive prosthodontic treatment are as follows:
	The need for multiple implants because of the unpredictability and lack of current scientific guidelines and understanding The limited scientific evidence about long-
	term survival The potential for fracture of the implant during placement
	Lack of parallelism between implants is less forgiving because of the one-piece design The reduction in resistance to occlusal
6.	loading, similar to narrow diameter implants Other disadvantages attributable to flapless surgery (when used) such as lack of bone
	visibility, inability to irrigate the bone, and contraindications in situations requiring alveoloplasty to gain prosthetic space
Desp	oite these disadvantages, the need for mini
eden	ants will continue to grow, especially among tulous patients because of the following: An increase in the need for complete
	dentures The increased cost of standard implants Access-to-care issues, especially among
	economically disadvantaged patients and patients indicated for maxillofacial prostheses
4.	Medically compromised patients who may not be candidates for traditional surgical procedures or ridge augmentation
	Increased interest in implant dentistry among general dentists refore, the current evidence must be reviewed.
and s	refore, the current evidence must be reviewed synthesized with the available clinical data on urvival of mini implants for definitive thodontic treatment.
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