msdi

Implants Instructions for Use

This document applies to MSDI Dental Implants (Alef, Taf, Kaf, Til, Conix) All MSDI products are intended to be used by appropriate trained and licensed professionals.

A warned and formed implants are intended to be used by appropriate trained and licensed professionals.

professionals.

A warned and formed practitioner to implantable technics should always perform MSDI Dental Implant system placement. The absence of practitioner's adequate training induces a major risk for the success rate of dental implants and can even compromise the state of general health of the patient

Indication for use:

MSDI Dental Implants System is indicated for use in surgical and restorative applications for placement in the bone of the upper or lower jaw to provide support or prosthetic devices, such as artificial teeth, in order to restore the patient's chewing function. It is intended for immediate loading when good primary stability is achieved and with appropriate occlusal loading.

Description: MSDI Dental

Description:

MSDI Dental Implant system is a high-technology system which uses the properties of self-tapping implants.

MSDI implants manufactures dental implants and restorative components from biocompatible titanium alloy 6AL4VELI.

MSDI implants' connection is internal hexagonal connection (Alef, Taf, Kaf, Til) or internal conical connection (Conix). To ensure compatibility, only MSDI abutments and tools should be used in conjugation with MSDI implants.

For specific product description, please refer to individual product packaging labels.

All 5 systems (Alef, Taf, Kaf, Til, Conix) are

to individual product packaging labels.

All 5 systems (Alef, Taf, Kaf, Til, Conix) are intended for surgical restorative applications for placement in the bone of the upper and lower jaw, to provide support for prosthetic devices, such as artificial teeth.

All 5 systems make use of the very same basic design consisting of full-body, threaded, self-tapping Titanium implants.

All 5 are surface-treated to increase bone-implant interface, and hence facilitate osseointegration.

osseointegration.
Size ranges (diameter and length) offered by the 3 systems (Alef, Taf, Kaf) are identical. The Alef and Taf are more suitable to soft bone due to: the conical outer shape, the 2.4mm x 2 starts pitch (2.4mm depth in every round), the aggressive self-tapping feature and the trapeze thread profile.
However, the Kaf is more suitable to hard/dense bone due to: cylindrical outer shape, the 1.2mm x 2 Starts pitch (1.2mm depth in everyround), the gentle self-tapping feature and the "V" shape thread profile.

The Conix Implant system is a high-

and the "V" shape thread profile.

The Conix Implant system is a high-technology system which uses the properties of self-tapping implants.
The connection is internal conical connection.
To ensure compatibility, only MSDI Conical system abutments and tools should be used in conjugation with Conix implants.
Conix implants design consisting of full-body, threaded with micro rings at the cortical bone area, self-tapping Titanium implants.
The Conix is suitable to soft and dense bone due to: the conical outer shape, the 2.0mm x 2 starts pitch, the aggressive self-tapping feature and the Special trapeze with radius thread profile.

The Til Implant system is a Slie Platform

thread profile.

The Til Implant system is a Slim Platform, high-technology system which uses the properties of self-tapping implants.
The connection is internal hex connection (2.1mm with 90 Deg chamfer). To ensure compatibility, only MSDI Slim system abutments and tools should be used in conjugation with Til implants.
Til implants design consisting of full-body, threaded with micro rings at the cortical bone area, self-tapping Titanium implants for narrow area where everyou can't use the regular platform implants because of clinical limitations.
The Til is suitable to soft and dense bone due to: the narrow conical outer shape, the 2.1mm x 2 starts pitch, the aggressive self-tapping feature and the Special trapeze thread profile.

Contraindications:
General contraindication to oral surgery and jaws are applicable in case of dental implantation. Applicable contraindications also include:

The patients handled by radiotherapy or subjected to diverse immunosuppressive therapy. These treatments could be responsible in the reduction of the success rate of dental implants

- success rate or dental implants For bisphosphonate therapy and implant surgery, the duration, route, and the dosage of the medication, as well as the type of bisphosphonate are reported to play an important role in potential bisphosphonaterelated osteonecrosis of the lawer the jaws.
- The consumption of oral biphosphonates by patients who suffer from osteoporosis seems to be a partial contraindication for the treatment with dental implants and the treatment with dental implants a the patient must Understand the necessity of a lon, follow-up period so as to detect any s of bone chemical necrosis
- bone Risk is increased if the case of patients receiving treatment with ciclosporin, azathioprine or similar, corticoids or hormonal therapy, in this case it is an
- ioprine or similar, corticoids or onal therapy, in this case it is an ute contraindication. stients suffering from diabetes, and lung diseases also are to be d. Dental implants will not be either in patients whose implanted site are steadytic inflammatory of infectious absolute con The patients cardiac and lu watched. placed in under osteolytic, inflammatory or infectious activity

- Additional Contraindications: The consumption of tobacco seems to be a factor associated with the increase in the loss of dental implants; failure rate around 2.5 times higher in patients who smoke are reported. Processes, diseases or care
- Processes, diseases or care compromising the therapeutic capacity (low motivation of the patient, psychiatric disorders preventing the patient from understanding and from interiorizing the necessity of implant placement, unrealistic expectations of the patient, impossible prosthetic reconstruction). Incapacity of the patient to manage oral hygiene. Hypersensitivity of the patiene . in

Secondary Effects:
The risks associated to this surgical operation
can be divided into four categories:
1. Immediate risks related to the anaesthesia
and the surgery procedure.
2. Risks related to psychological or

psychological

psychiatric problems
3. Long-term medical complication
4. Permanent impact of the implant on the patient health
Among these possible risks, it is possible to

Among these possible risks, it is possible to indicate: drilled by the nasal cavity and by the maxillary sine, the local and systematic infection due to a breakthrough in the cavities of mild parts, reached by the nerve. Temporary phenomena resulting from the insertion of the implant such as: pain, swelling speech disorders and inflammation.

the insertion of the implant such as: pain, swelling, speech disorders and inflammation of the gums.

The following long-term problems can also appear: damaged nerve, local or systemic bacterial infection, infectious endocardits in sensitive or post-transplantation individuals. The incorrect placement of an implant can damage the natural set of teeth.

Warnings:

- MSDI Dental Implant system is used in association with specific related prosthetic parts manufactured by MSDI.
- These prosthetic parts infantial be substituted by manufactured by MSDI. Any use of prosthetic parts must y references material
- Any use of prosthetic material and/ or ancillary not validated by MSDI pull de facto the loss of the manufacturer's guarantee. Invasive MSDI sy single-use o impl parts of the devices and system are must not be reused. Any re-use of a single-use device induces a significant risk of infection for the user and the patient and a loss of the mechanical properties of the implants and the prosthetic parts.

- Re-use of implants may caus ontamination, infection and se cross-l implant failure. e. the Do 'at provided implants. . may cause
- sterile. Do not re-sterilize in Re-sterilization of implants may cross-contamination, infection implant failure. implant failure.

 MSDI Implants have not been evaluated for safety and compatibility in the MR environment. They have not been tested for heating, migration, or image artifact in the MR environment. The safety of MSDI Implants in the MR environment is
- unknown. Scanning a patient who has a may result in patient injury. Small diameter implants at abutments are not recommen posterior region of the mouth. has this device and angled ended for the
- Packaging: MSDI Dental Implant system is provided sterile (gamma sterilization) in unit package. A witness label affixed on the
- congge. A witness label affixed on the ackaging indicates the actual passage implants in irradiation. The sterility guaranteed 5 years (from the date of erilization). packaging i of implants Only an intact packaging guarantees the sterility of the products. Do not use implants with damaged or prematurely
- opened package. opened package.

 Every packaging, besides the product reference, contains self-stick labels resuming all the specifications of the implant (cat number, lot number, sterilization, use by date, etc.) which are to be affixed on the patient file.

 Implants must be stored in a clean, dry, froch and appropriate place.
 - sh and appropriate place.

MSDI dental implants are single-use devices. Never reuse an extracted and/or rejected implant. The re-use and/or the re-sterilization of any implant can be at the origin of infectious disorders of the user and the patient. Patient Information:

The practitioner must inform the patient that the safety and/or the durability of the placement of an MSDI Dental Implant system are function of its activity and of the respect for the advice, which will have been given. The practitioner will inform the patient of the potential unwanted effects consecutive to the dottal implant a large part for some some for the dottal implant and account for the potential unwanted effects consecutive to

potential unwanted effects consecutive to the dental implant placement (osseous split, infection, pains, bruise, oedema, temporary or permanent nerve damage, bleeding, oral drought, sinusitis). Patient's informed consent must be obtained before surgery. It is recommended to inform patients that presence of implants should be reported to practitioners prior to MRI testing.

Procedural Precautions: All components must be checked before use. The presence of the bone and its capacity to support the implant must be estimated from radiographies of the zone of implantation, according to the current techniques for the realization of false teeth.

After dental implant placement, the patient will have to inform the practitioner of any sensation or modification appearing at the level of the implant.

Also it is necessary to study very carefully the location of blood vessels, maxillary sine, nasal cavity, cavities in mild parts, as well as their relation in the zone of setting-up.

Surgical Procedure: 1. open the implant and co onto a sterile surface. 2. Disinfect the implant site and cover screw case

- 2. Disinfect the implant site planning of the established intervention 4. Preliminary drilling before the implant insertion: the insertion of the implant has to respect a surgical protocol including a sequence of drilling adapted to the clinical case and to the osseous criteria of the nation.
- 5. Insertion of the implant: do not exce strength of 60N during the insertion the implant

6.Screwing of the cover screw sup with the implant or of a healing cap. supplied Caution: Federal law restricts this device to sale by or on the order of a dentist.

Explanation of Symbols: Use by date

- **REF** Catalogue reference **LOT** Lot number
- ② Do not re-use
- STERILE R Sterilized by irradiation
- Caution, consult accompanying documents
 - Regulatory compliance
- ϵ
 - Manufacture
- Do not use if packaging is brocken or damaged Authorized representative in the EC REP F
- (TEALL) Do not resterilize
 - Non-sterile product
- - ϵ
 - - 0483

- Medical Systems and Devices International Ltd.
 St. Ba'alei Malacha 26, P.O. Box 25414 Haifa 3223020, Israel Tel: 972-54-932-0515 Tel: 972-54-932-0515 E-mail: Omri@msdi-ltd.com

EC F

MedNet EC-REP GmbH, Borkstraße 10 48163 Münster, Germany Tel: +49 (0) 251 32266-0 E-mail: info@medneteurope.com

Hard Bone Soft Bone

ø5.00

Recommended Surgical steps: Alef:

ø2.00 ø2.50 ø2.80 Implant a3 75 Hard Bone Soft Bone 0 • • ø4.20 Hard Bone Soft Bone

Til:			Drill	
Implant		ø2.00	ø2.50	ø2.80
ø3.00	Soft Bone	0		
	Hard Bone	•	•	•

COITIX		Drill							
Implant		ø2.00	ø2.50	ø2.80	ø3.20	ø3.65	ø4.20		
ø3.50	Soft Bone Hard Bone	•	•	•					
ø4.30	Soft Bone Hard Bone	•	0	0	0	•			
ø5.00	Soft Bone Hard Bone	0	0	0	0	0	•		

•	Taf:					Drill			
1	mplant		ø2.00	ø2.50	ø2.80	ø3.20	ø3.65	ø4.30	ø5.20
	ø3.50	Soft Bone Hard Bone	0	•	•				
	ø3.75	Soft Bone Hard Bone	0	0	0	•			
	ø4.20	Soft Bone Hard Bone	0	0	0	0	•		
	ø5.00	Soft Bone Hard Bone	0	0	0	0	0	•	
	ø6.00	Soft Bone Hard Bone	0	0	0	0	0	0	•

Soft Bone Hard Bone	•	•	•	•	•		
Soft Bone	0	0	0	0	0	0	
Hard Bone	•	•	•	•	•	•	•
				Drill			
	ø2.00	ø2.50	ø2.80	ø3.20	ø3.65	ø4.30	ø5.20
Soft Bone	0						
Hard Bone	•	•	•				
Soft Bone	0	0	0				
Hard Bone	•	•	•	•			
Soft Bone	0	0	0	0			
Hard Bone	•	•	•	•	•		
Soft Bone	0	0	0	0	0		
Hard Bone		•	•	•	•	•	
Soft Bone	0	0	0	0	0	0	
Hard Bone	•	•	•	•	•	•	•
	Hard Bone Soft Bone Soft Bone Soft Bone	Hard Bone O	Add Bone	Hard Bone	Hard Bone	Hard Bone	Hard Bone