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Hands-on Guide

Osstem Implant KIT





OSSTEM IMPLANT Co., Ltd. www.osstem.com





Hands-on Guide

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Narrow Ridge Solution ESSET KIT

Short Implant Solution

The KIT is composed of specially designed drills to avoid nerve damage and place short-body implants. (4mm ~ 8.5mm)





Procedure



Materials



HANDS-ON GUIDE 01

Short Implant Solution

485 KIT









Caution 1

This Hands-on case was designed to demonstrate the superior safety of 485 KIT comparing the transparencies of alveolar nerves at the drilled holes. Please note that a 2mm distance must be secured between drilling depth (implant size) and alveolar bone in actual clinical case.





+ 1mm

Laser Mark

Simple Drilling Solution

By using 122 Taper KIT, it is able to place an implant with drilling only once for soft bone and twice for normal bone & hard bone.







Procedure

*



PREPARATION

1. Set the drill speed to 1,200 rpm for drilling.

2. Drill the bone block using three different drill sequences : Soft / Normal / Hard bone. 3. Drill the practice model using the normal bone drill sequence.

SPECIAL Operators can first practice the basic drilling steps on the NOTE bone block to experience how simple they are. Then, they can practice the drilling sequence on the practice model. *Please explain the 122 drilling sequence at the bone block practice stage.

Materials



HANDS-ON GUIDE 02

Simple Drilling Solution







Implant Aligning Solution

The KIT helps to find both right spot and angle for implant placement without using a surgical template. Also, it can be used to place implants on the center of teeth with the consideration of final prosthesis positions.

Good Case



Implant placement

on the center of teeth



Implant Position





Implant placed too close to each other

Procedure





1. Set the drill speed to 1,200 rpm for drilling. 2. Prepare the 122 Taper KIT for implant placement.

3. Prepare Implants for the implant placement.



Materials



HANDS-ON GUIDE 03

Implant Aligning Solution

Positioning **Guide KIT**



Caution 1

· When using the single guide, drill the guide towards the adjacent teeth.

· Check Buccal & lingual part carefully and drill the guide at the center of them.





Caution 2

When connecting the single guide to the drill, make sure that the open side is facing up.



Sinus Surgery Solution

Crestal Approach Sinus Surgery KIT is designed to perform sinus lifting without causing membrane perforation. The KIT is composed of patented conical inverse drills and secures easier and safer sinus membrane elevation.



Procedure



SPECIAL NOTE

The practice model was designed to check the condition of sinus membrane from the open window. An operator can check the sinus perforation during the hands-on practice in real time.

* After lifting the sinus membrane, check the sinus perforation.

Materials



HANDS-ON GUIDE 04

Sinus Surgery Solution

CAS KIT

• Model: BU05

• RPM: 800

Normal Bone





Depth Check



Connect a stopper to the depth gauge to check the condition of a drilled hole whether it is open and ready to be lifted.

Membrane Lifting

Fill the 3cc Syringe with 1.5cc of saline Repeat injecting and drawing saline in the following volumes. : 0.5cc – 1 cc – 1,5 cc





Bone Graft

Herry Y and Lee DY, 2005	
Lift Heigh	Volume of Bone Matrix
3mm	0.36cc
4mm	0.5cc
5mm	0.7cc
6mm	0.9cc

Sinus Surgery Solution

LAS KIT is composed with dome drills, used to form a lateral window for sinus surgery. It is safer and less time consuming to form a lateral window, compared to cut the plate by using a round bur. Different size of stoppers can be connected to the drill to control the drilling depth.





Procedure



Materials



* Optional

HANDS-ON GUIDE 05

Sinus Surgery Solution

LAS KIT







Narrow Ridge Solution

By using ESSET KIT, ridge split and expansion can be much less traumatic for patients. No need to use a chisel or a mallet.







Prep

Cut

Expand

Implant Placement

Procedure





Materials



HANDS-ON GUIDE 06

Narrow Ridge Solution

ESSET KIT

• Model: RS-01 • RPM: 1,200 / 35



