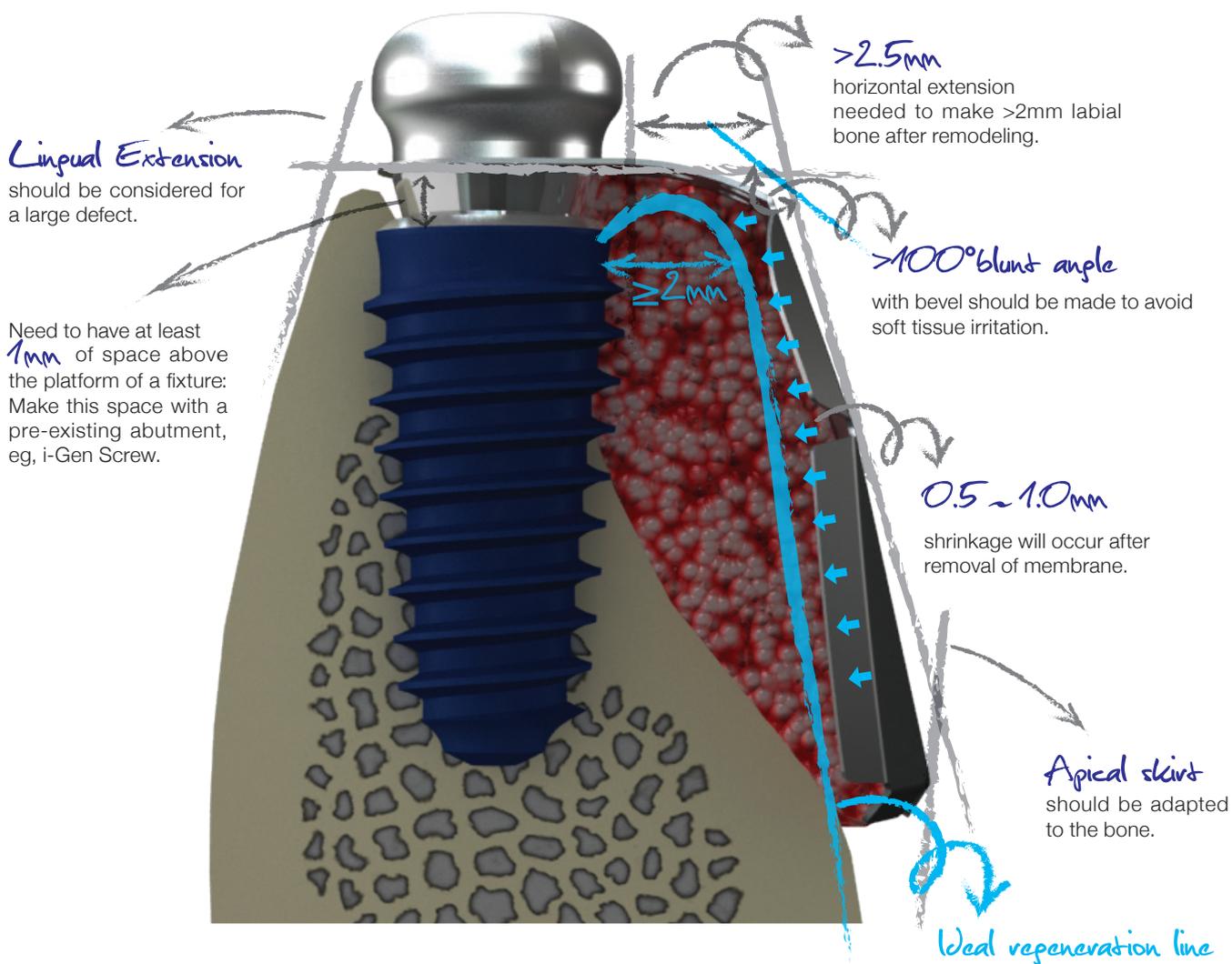


# ➔ GBR membrane for ideal regeneration

## 1) i-Gen



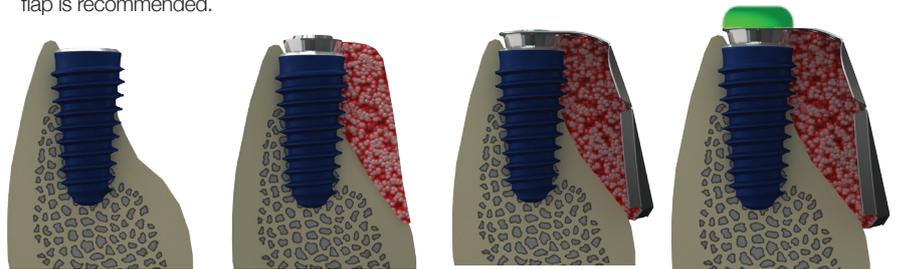
Description	Type	Ref.C
i-Gen	Single A type Small	IG1W4509
	Single A type Regular	IG1W5510
	Single A type Wide	IG1W6511
	Single B type Small	IG2W0918
	Single B type Regular	IG2W1120
	Single B type Wide	IG2W1323
	Single C type Small	IG3W0921
	Single C type Regular	IG3W1125
	Single C type Wide	IG3W1328
	i-Gen Screw 1mm Cuff [AnyRidge]	IA1810
	i-Gen Screw 2mm Cuff [AnyRidge]	IA1820

Description	Type	Ref.C
i-Gen	i-Gen Screw 3mm Cuff [AnyRidge]	IA1830
	i-Gen Screw 1mm Cuff [AnyOne]	IA2010
	i-Gen Screw 2mm Cuff [AnyOne]	IA2020
	i-Gen Screw 3mm Cuff [AnyOne]	IA2030
	i-Gen Screw 1.5mm Cuff [MINI]	IA1415
	i-Gen Screw 2mm Cuff [MINI]	IA1420
	i-Gen Screw 3mm Cuff [MINI]	IA1430
	Flat Healing Abutment H=2.5mm	FHA402
	Flat Healing Abutment H=3.5mm	FHA403
	i-Gen Cover Screw	ICS3510
	Hand Driver(1.6 Hex) for i-Gen Screw	TCMHDL1600

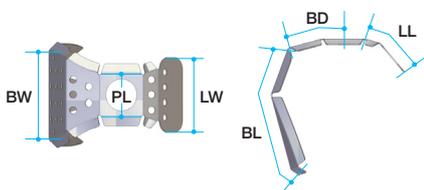
## 1. How to use

### Ideal + Regeneration membrane → i-Gen membrane

1. Place an implant into the recipient site.
2. Connect a i-Gen screw to the implant and bone grafting. Usually 1 mm cuff height is good enough for vertical space, but 2 or 3 mm cuff height of i-Gen Screw can be chosen according to situation. The amount of graft material should be enough to fill the space between i-Gen and the fixture.
3. Selection of i-Gen and placement. According to the size and shape of bone defect, an i-Gen can be chosen from 9 different shapes. Match the hole of i-Gen with the screw hole of i-Gen screw.
4. Fixate i-Gen with a i-Gen Screw. Choose a i-Gen cover Screw or Flat Healing Abutment to fix i-Gen membrane depend on the need of one or two stage surgery. And tight adaptation of soft tissue flap is recommended.

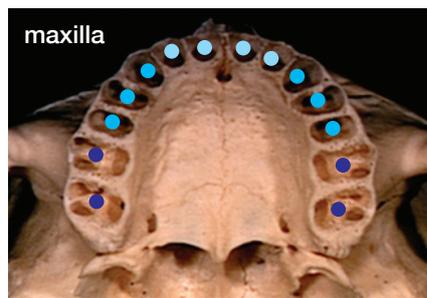


## 2. Which i-Gen?



### i-Gen membrane has 9 different size and shapes.

As seen on the figure left, alveolar bone has different widths according to locations. It can be divided into three categories; Anterior (Sky blue dots), Premolar (Blue dots) and Molar (Dark blue dots). For Anteriors, 'narrow' membranes can be used, which has 4.5mm buccal horizontal extension from the center of fixture. For Premolars, 'Regular' membranes which has 5.5mm buccal extension, can be selected. The molar area usually needs wide membrane (6.5mm from fixture center), especially at the immediate placement case with wall defects. Type A and B membranes are only to cover single wall defects. Type C has a lingual extension to cover lingual wall defect. Type C has a lingual extension to cover lingual wall defect.



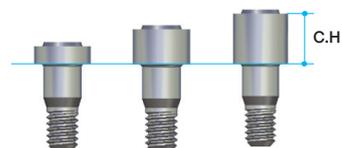
i-GEN membrane			Dimension						Ref.C
			PL (Proximal Length)	BW (Buccal width)	BL (Buccal Length)	BD (Buccal Distance)	LW (Lingual width)	LL (Lingual Length)	
A1	A2	A3	4	9	11	4.5	-	-	IG1W4509
			4	10	11	5.5	-	-	IG1W5510
			4	11	11	6.5	-	-	IG1W6511
B1	B2	B3	5	9	11	4.5	-	-	IG2W0918
			6.5	11	11	5.5	-	-	IG2W1120
			9	13	11	6.5	-	-	IG2W1323
C1	C2	C3	5	9	11	4.5	6	4.25	IG3W0921
			6.5	11	11	5.5	8	4.25	IG3W1125
			9	13	11	6.5	10	9	IG3W1328

## i-Gen Screw

\* We recommend that you verify the size of the abutment screws before use, it should be noted that it may not be fully compatible depending on the tolerance of each manufacturer.

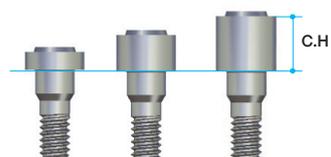
Type	Cuff Height (mm)	Ref.C
M2.0	1.0	IA2010
	2.0	IA2020
	3.0	IA2030

- MegaGen (AnyOne, EZ Plus(R&W) & MegaFix)
- Straumann (Standard & Standard Plus)
- Nobel Biocare (Nobel Replace Tapered Groovy)
- Dentium (Superline)
- Dio (Steady, SM, IFI)
- Neobiotech (IS)
- Osstem (TSVI)



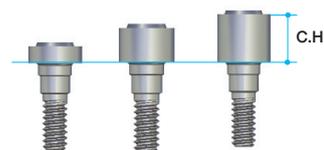
Type	Cuff Height (mm)	Ref.C
M1.8	1.0	IA1810
	2.0	IA1820
	3.0	IA1830

- MegaGen (AnyRidge)
- Dentsply-Frident (Ankylos C/X Implant)
- Zimmer (TSV)



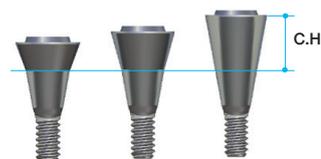
Type	Cuff Height (mm)	Ref.C
M1.6	1.0	IA1610
	2.0	IA1620
	3.0	IA1630

- MegaGen (EZ Plus Internal \_Small)
- Straumann (Bone Level)
- 3i (Osseotite certain & Full Osseotite NT Certain)



Type	Cuff Height (mm)	Ref.C
M1.4	1.5	IA1415
	2.0	IA1420
	3.0	IA1430

- MegaGen (MiNi)



## i-Gen Cover Screw

- Use Hand Driver(1.2 Hex)

Type	Height (mm)	Ref.C
Hex 1.2	1.0	ICS3510



➔ Clinical case

Case . Mandibular premolar

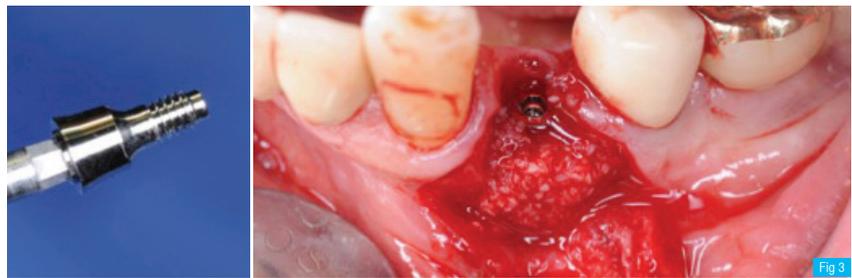
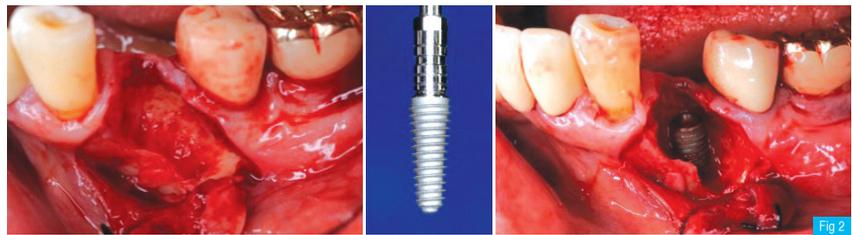
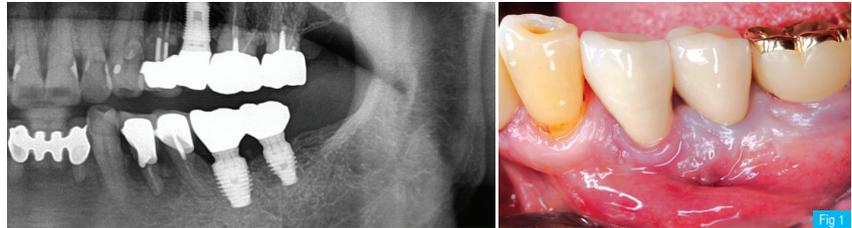
**Fig 1.** This 65 year-old male patient visited with a chief complaint of discomfort on #24 during chewing. On the panoramic view, large bone defect was observed.

**Fig 2.** The tooth was extracted and socket was degranulated thoroughly. A 4.5mm AnyRidge Fixture was placed at the center of socket with excellent initial stability.

**Fig 3.** A i-Gen Screw, 1 mm cuff height, was connected with the fixture. A 1.6mm Hex Driver is needed to place a i-Gen Screw, which is included in the kit. Mega-Oss allograft was grafted into the defect.

**Fig 4.** The combined image of i-Gen, a i-Gen Screw and a Healing Abutment. A Healing Abutment was connected on the i-Gen Screw to fix the i-Gen for one stage surgical approach. Watch the horizontal extension of i-Gen.

**Fig 5.** Simple suture was made to adapt the buccal flap against the Healing Abutment.



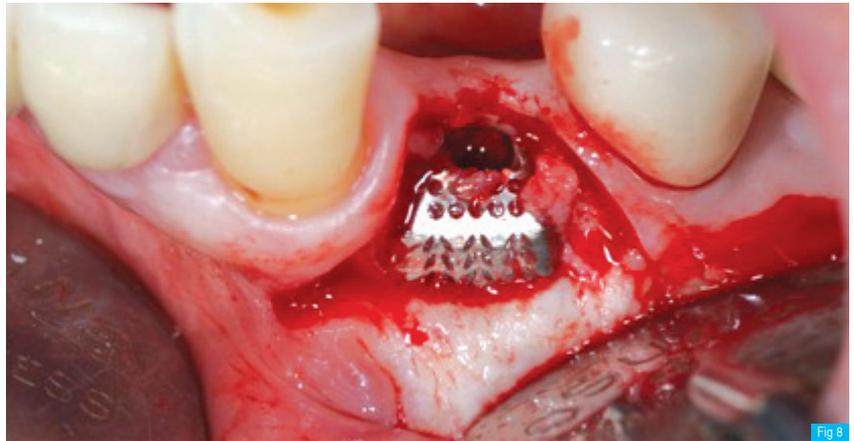
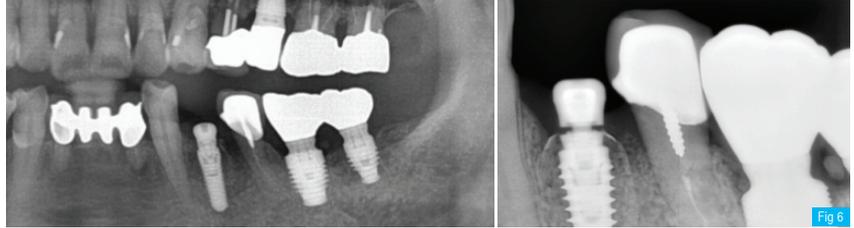
**Fig 6.** Postoperative panoramic and intra-oral radiograph.

**Fig 7.** 3 months after surgery. Gingival healing was excellent and intraoral radiograph showed considerable increase in radiopacity.

**Fig 8.** Usually flap opening is not necessary to remove i-Gen, but in this case the flap was elevated to check the bone regeneration. The i-Gen was maintained very stable in the tissue, and it was easily removed with a hemostat.

**Fig 9.** The defect was filled with healthy regenerated bone. From the occlusal view, the buccal bone has more than 3mm width at the level of implant platform.

**Fig 10.** Flap was closed with simple suture.



Case . Maxillary premolar

**Fig 1.** The first premolar was extracted due to severe periodontitis. Due to the inflammation around that tooth, the implant surgery was delayed almost a month.

**Fig 2.** When the flaps were elevated, there found two different bone defects: The first premolar showed large extraction socket defect due to periodontitis, and the second premolar showed quite big undercut on the buccal bone. Osteotomy sockets were made. A big fenestration defect on twas made he second premolar due to bony undercut.

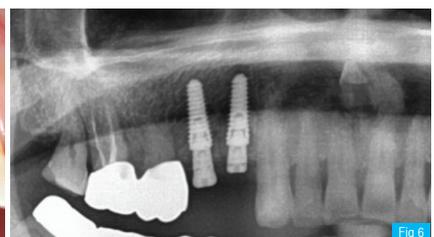
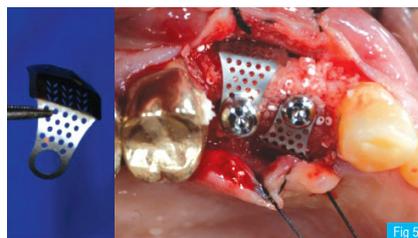
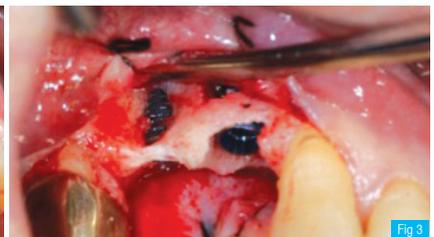
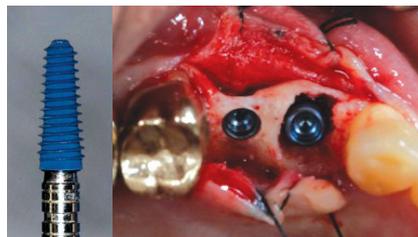
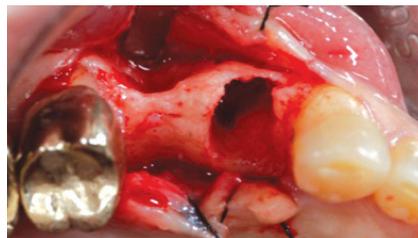
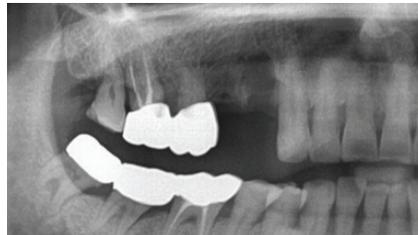
**Fig 3.** Two 4 x 13 AnyRidge Xpeed fixtures were placed at thwith excellent initial fixation. Look defects around both implants.

**Fig 4.** Two i-Gen screws cuff height, were, 2mm connected due to the irregularity on the crestal bone. The defects were grafted with the mixture of Mega-Oss(allograft) and Bone Plus (synthetic, BCP)

**Fig 5.** Two regular size i-Gen (Type A) was fixated with healing abutments.

**Fig 6.** Flaps were closed with simple interrupted sutures, and panoramic and intraoral radiographs were taken after surgery.

**Fig 7.** Healing was uneventful for a month. Intraoral radiograph was taken one month later from surgery.



Case . Mandibular incisor area

**Fig 1.** The first premolar was extracted due to severe periodontitis. Due to the inflammation around that tooth, the implant surgery was delayed almost a month.

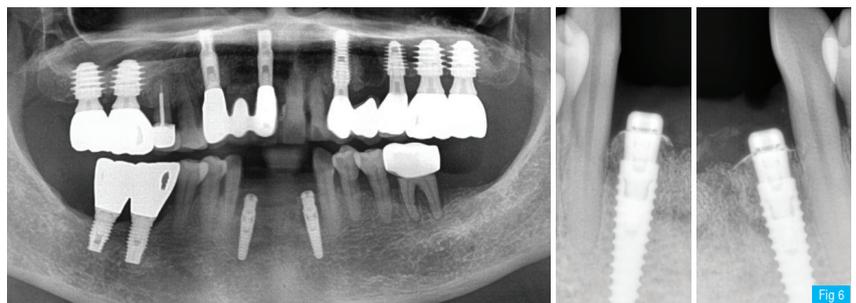
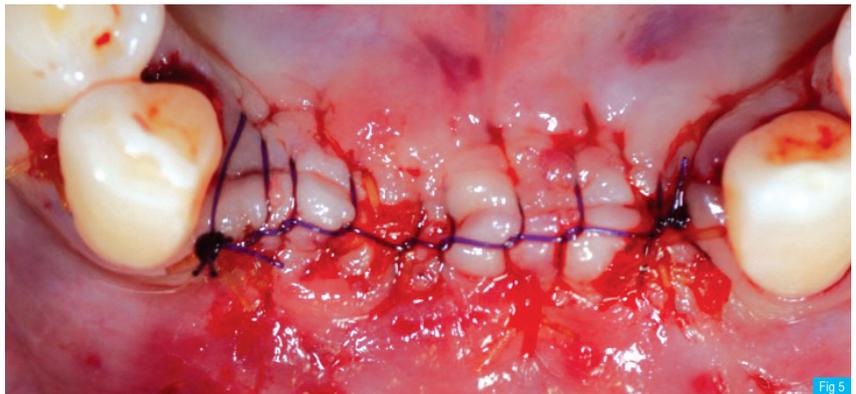
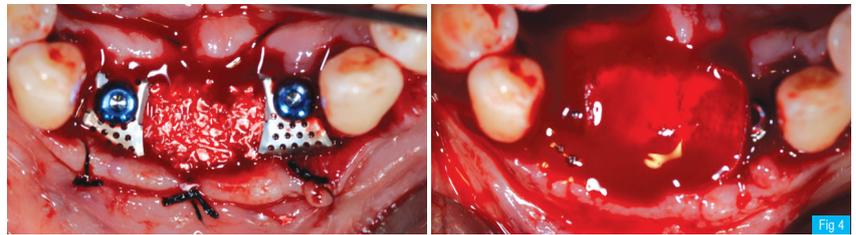
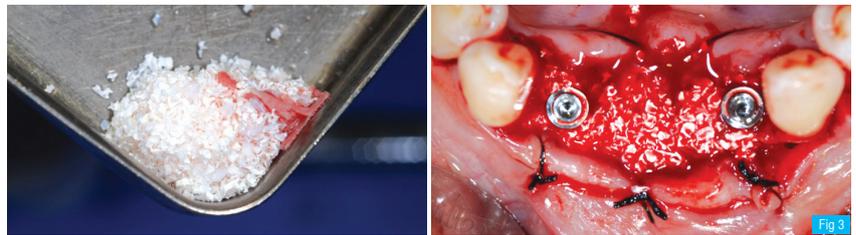
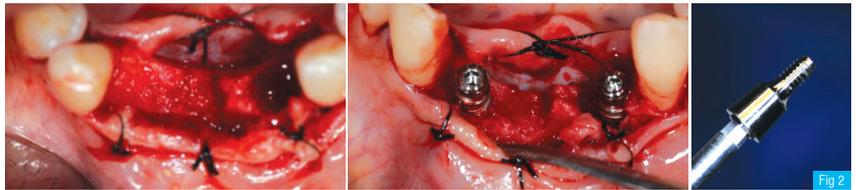
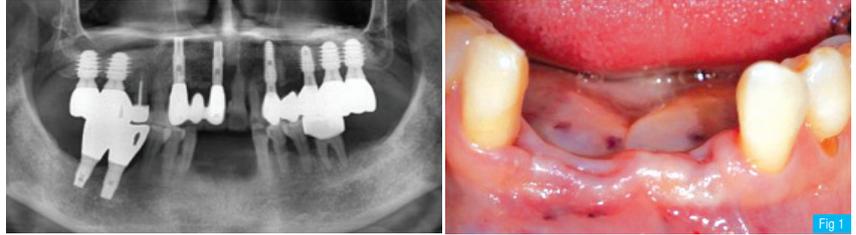
**Fig 2.** Two fixtures were placed on into both lateral incisors. Due to the vertical defect, fixture platforms were positioned about 3 mm above the crest. And again 3mm cuff height Flat abutments were connected to the fixtures to make more space under the membrane.

**Fig 3.** Mega-Oss bovine was grafted on the horizontal and vertical defects.

**Fig 4.** Two narrow Type C i-Gen membranes were positioned and fixated with Cover Screws. Then a collagen membrane was placed at the center of the defect.

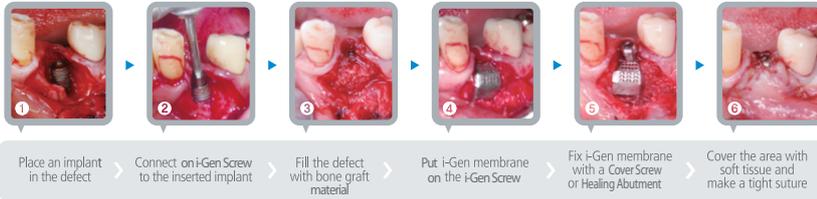
**Fig 5.** Primary closure was made with the periosteal releasing.

**Fig 6.** A panoramic radiograph taken immediate after surgery. Intraoral radiographs taken 1 month after surgery. Find the position of fixture platform, a i-Gen Screw and i-Gen membrane.



# i-Gen membrane Full & Trial package ver 2.0 (AnyRidge or AnyOne)

## Surgical guide



## Recommended types of i-Gen for each tooth (Refer to below table)



### Full Package

A : 1 wall defect    B : 2 wall defect    C : 3 wall defect

A1	A1	A2	A3	B1	B1	B2	B3	C1	C1	C2	C3	Hand Driver Short for i-Gen screw delivery
i-Gen Screw 1mm Cuff / 4ea		i-Gen Screw 2mm Cuff / 4ea		i-Gen Screw 3mm Cuff / 4ea		Cover Screw / 6ea		Healing Abutment 2.5mm / 3ea		Healing Abutment 3.5mm / 3ea		

## i-Gen full package includes

- 12 i-Gen membranes
- 12 i-Gen Screws (1mm, 2mm, 3mm cuff x 4 each)
- 6 Cover Screws
- 6 Healing Abutments (2.5, 3.5 mm height)
- 1 Hand Driver (Hex 1.6)

### Trial Package

A : 1 wall defect    B : 2 wall defect    C : 3 wall defect

A1	A2	B1	B2	C1	C2	Hand Driver Short for i-Gen screw delivery	i-Gen Screw 1mm Cuff / 2ea	i-Gen Screw 2mm Cuff / 2ea	i-Gen Screw 3mm Cuff / 2ea
Cover Screw / 2ea		Healing Abutment 2.5mm / 2ea		Healing Abutment 3.5mm / 2ea					

## i-Gen trial package includes

- 4 i-Gen membranes
- 6 i-Gen Screws (1mm x 2ea, 2mm x 1ea, 3mm x 1ea)
- 2 Cover Screws
- 4 Healing Abutments (2.5 & 3.5 mm height)
- 1 Hand Driver (Hex 1.6)

\* Individual items can be ordered additionally to fill up the package.

\* Additional types of i-Gen Screw for other implant system are available upon request. Ask to your sales reps.