



BLUEDIAMOND IMPLANT CLINICAL CASE BOOK

BLUEDIAMOND goes FAR BEYOND the standard expectations
for dental implants...

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CASE 7_ Full-mouth rehabilitation using R2 digital solution

-Seoul Top Dental Clinic Dr. Moonseop Yum



Initial situation



Final result

Clinician's review (Reasons for choosing BLUEDIAMOND implants)

- **Immediate implant placement** was used in the mandible & **trans-alveolar approach sinus lifting** performed in the maxilla
- All the implants were placed using **MegaGen's digital guided implant surgery system, R2GATE**
- BLUEDIAMOND implants were selected to achieve sufficient primary stability to allow **early loading**

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Patient information

Gender/Age	M/60
Region	Mx & Mn
Health status	Compromised
Bone type	D2, D3
Local infection	Yes
Gingival biotype	Thick&flat
Risk factors	None

Goal of treatment

- Upper & lower full-arch implant restoration

Treatment plan

- Digital guided implant surgery using R2GATE
- Crestal approach sinus lift using Densah Bur



Fig. 1 Pre-OP panoramic radiography

Fixture sizes

Maxillary	Location	Fixture size	Mandible	Location	Fixture size
	#11, 13, 21, 23	Ø3.7 x 11.5mm		#31, 33, 41, 43	Ø3.7 x 11.5mm
	#14, 24	Ø4.1 x 11.5mm		#34, 36, 44	Ø4.1 x 11.5mm
	#15, 25	Ø4.1 x 10.0mm		#37	Ø4.4 x 10.0mm
	#17, 27	Ø4.8 x 8.5mm		#46	Ø4.4 x 10.0mm
				#47	Ø4.4 x 10.0mm

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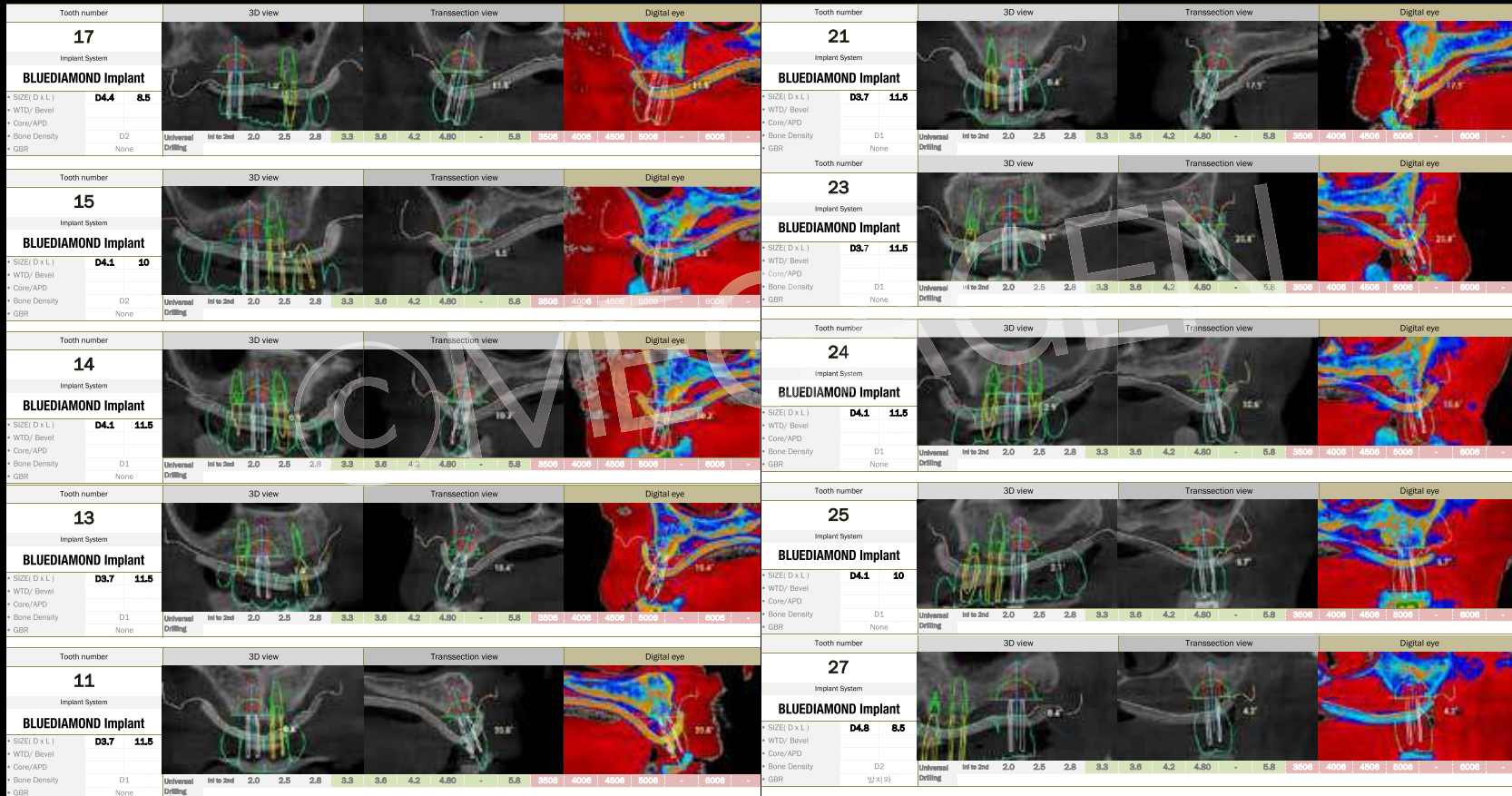


Fig. 2 Implant planning & bone quality evaluation using R2GATE software

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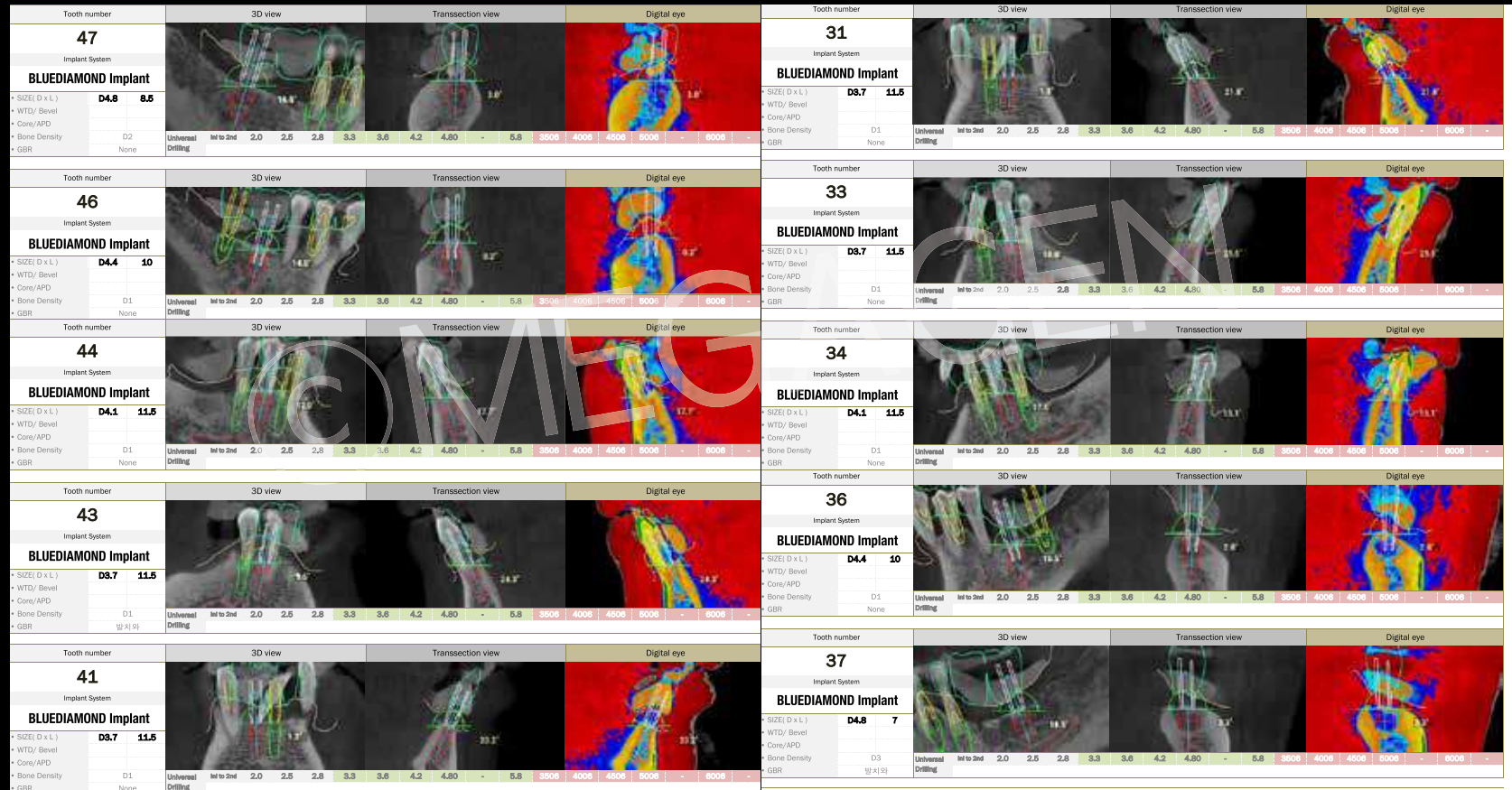


Fig. 2-2 Implant planning & bone quality evaluation using R2GATE software

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Fig. 3 Upper wax-up for digital surgical guide



Fig. 4 Lower wax-up for digital surgical guide

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Fig. 5 Fixation of R2 Guide in maxilla using anchors



Fig. 6 Implant placement using R2 Guide

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Fig. 7 Post-OP panoramic radiography

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Fig. 8 Placement of lower R2 Guide

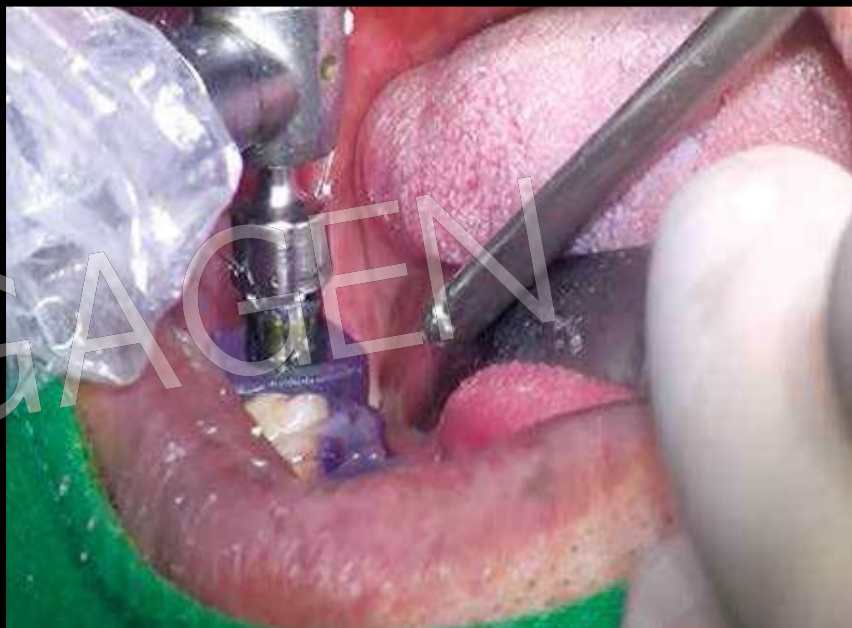


Fig. 9 Placement of BLUEDIAMOND implant using R2 Guide

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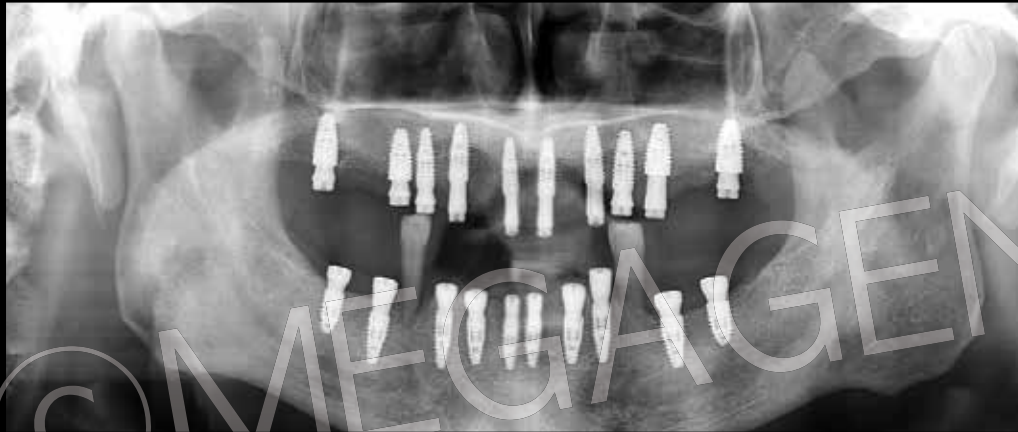


Fig. 10 Panoramic radiography after lower implant placement (3 months after upper implant placement)



Fig. 11 Upper impression taking for custom abutments & provisional restoration

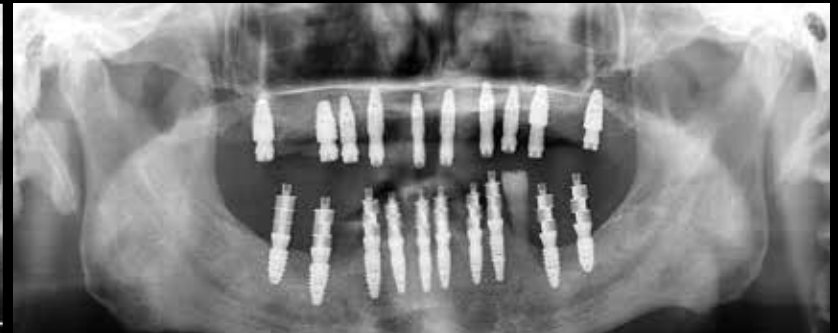


Fig. 12 Lower impression taking for custom abutments & provisional restoration

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Fig. 13 PMMA milling with BX5



Fig. 14 Delivery of PMMA bridge

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Fig. 15 Attachment of customized abutments in maxilla



Fig. 16 Attachment of customized abutments in mandible

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Fig. 17 Delivery of final prostheses

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Fig. 18 Intra-oral image after delivery of final prostheses

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Fig. 19 Panoramic radiography after delivery of final prostheses

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