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Clean System

GAGE BENTIS

DENTAL IMPLANT SOLUTION

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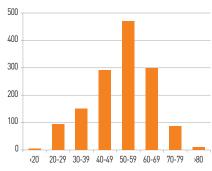
A Multi-Center Retrospective Study of DENTIS Implant System

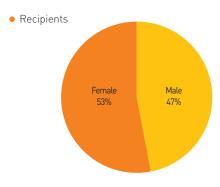
Thomas K, Lee, DDS Su-Kwan Kim, DDS, PhD Sang-Don Joo, DDS Sang-Chul Ko, DDS

Background: The design of DENTIS implant system, marketed since 2005 in Korea and abroad in 15 countries, is designed with the following characteristics: RBM surface treatments for time-proven osseo-integration; tapered body with optimized thread designs for easy initial fixation at the time of placement surgery; 3 different abutment connection types for the same body design, allowing easier transition for the operator from existing systems in his/her armamentarium; and simplified prosthetic components. The purpose of this retrospective study was to evaluate clinical success rates for a new dental implant system called DENTIS in various private practice clinical settings.

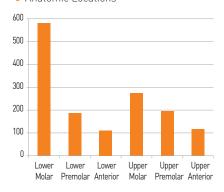
Methods: 707 consecutive patients at 3 different clinical locations were treated with 1429 DENTIS implants. All 3 different abutment connection types of DENTIS Implant System (external hex connection type, octagonal conical-taper internal supra-gingival connection type, and submerged/bone level hex conical-taper internal connection type) were utilized in this study based on operator decision for each case. Implants were placed at various locations throughout the maxilla and mandible according to the treatment plan, including delayed and immediate placements after extractions. Various bone grafting procedures were done, including sinus augmentations, when clinically necessary. Patients were recalled and clinically examined at regular intervals along with radiographs to monitor clinical progression and prosthetic serviceability and stability.

Age Distribution





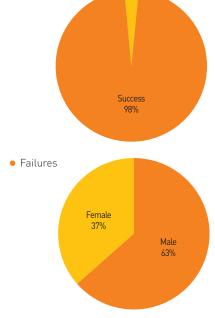
Anatomic Locations



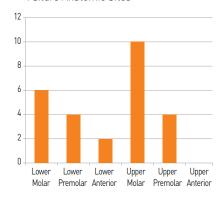
Results: Average time since implant placements were 26 months. Average time since delivery of prosthesis was 21 months, 27 implants out of 1429 implants had to be removed before delivery of definitive restorations for various clinical failure criteria, resulting in a failure rate of 1 9% Cumulative survival rate was 98 1% Average age of the patient population was 52 years old at the time of implant placement surgery, while youngest patient was 16 years old and oldest patient was 87 years old. 52,7% of the patient population was female, while 47,3% was male. While maxillary molar region had the highest risk of failures anatomically, diabetes and smoking were the highest medical condition risk factors. Prosthetic complication factors such as screw loosening, cemented crowns coming-off, and porcelain fractures affected 36 implants, resulting in 4,8% prosthetic complication rate for the 26 months of this study.

Failure

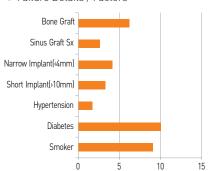
• DENTIS Implant Success Rate



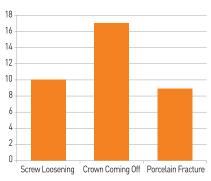
• Failure Anatomic Sites



• Failure Details / Factors



Prosthetic Complications



Conclusion: A new dental implant system called DENTIS is found to be performing well in various clinical practice settings in this retrospective multicenter study. Cumulative success rate of 98,1% for the DENTIS Implant System, as demonstrated in this study, compares favorably to most of the leading implant systems in the market now. Same patient population will continue be followed up in coming years for further evaluation of DENTIS implants.

Features of **CLEANLANT**



• Fixture Mount can be used for Imperssion Coping and Free Abutment.

Fixture mount is economical and makes it simple for dental prosthetics. Mount could be used as transfer type of impression coping and final abutment after inserted fixture.

- Tapered design

Root Form Design achieved superb initial fixation strength also in places where condition of the bone is not good, makes an easy and stable surgery possible and reduces surgery time.

• Micro-Thread for Bone Loss Prevention

It prevents water absorption of the cortex due to bacterial infection and minimizes bone loss, breaking due to internal stress and stimulus of the cortical bone with stable initial fixation strength and wedges in thin cortex as well.

Safe cutting edge

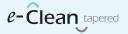
It minimizes resistance of the bone during insertion of the implant and functions to provide safe and smooth insertion.

 RBM Surface Treatment (1,5±0,2um) It maximizes osseointegration,





Fixture System Selection





Mini							
Implant Diameter	Length	Code					
	8.0mm	DEFM3508					
Ø3.5	10.0mm	DEFM3510					
<i>у</i> З.5	12.0mm	DEFM3512					
	14.0mm	DEFM3514					



Regular							
Implant Diameter	Length	Code					
	8.0mm	DEFR4108					
Ø4.1	10.0mm	DEFR4110					
Ø4.1	12.0mm	DEFR4112					
	14.0mm	DEFR4114					



Wide							
Implant Diameter	Length	Code					
Ø5.1	8.0mm	DEFW5108					
	10.0mm	DEFW5110					
	12.0mm	DEFW5112					
	14.0mm	DEFW5114					

Prosthetic Flow Diagrams for **e-Clean**

Cemented system

Description	Flow	Tool
Screw		1.2 Hex Driver
Abutment 1) Cemented 2) Angled 3) Gold UCLA 4)Plastic	1 2 3 4 Hex N-Hex 15° 25° Hex N-Hex Hex N-Hex	
Lab analog		
Impression Coping 1) Pick-up 2) Transfer	1 (2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	1.2 Hex Driver
1) Cover Screw 2) Healing Abutment	① ② P	0.9 Hex Driver 1.2 Hex Driver **Mini Only
E-Clean Fixture		

0-Ring system

Description	Fl	ow	Tool
1) O-Ring 2) O-Ring Retainer	1)	2	
		\	
O-Ring Lab Analog		P	
O-Ring Abutment			
			O-Ring Abutment Driver
1) Cover Screw 2) Healing Abutment	1)	2	ā ā
	T	P	0.9 Hex Driver 1.2 Hex Driver
E-Clean Fixture			

Prosthetic Components

e-Clean Cemented Abutment Components

Mount	Platform Diameter			С	ode No.	
	Mini Regular Wide		DEFMM DEFMR DEFMW			
Short Mount	Platform Diameter	-		С	ode No.	
6.5mm	Mini Regular Wide			D	EFMSM EFMSR EFMSW	
Cover Screw	Platform Diameter			С	ode No.	
	Mini C Regular C			DECSM DECSR DECSW		
Healing Abutment	Cuff			Code	e No.	
Cuff: 2, 3, 4, 5.5, 7mm	2mm 3mm 4mm 5.5mm 7mm	Min DEHM DEHM DEHM DEHM DEHM	1420 1430 1440 1455	Regu DEHR520 DEHR530 DEHR540 DEHR555 DEHR570	DEHR620 DEHR630 DEHR640 DEHR655 DEHR670	Wide DEHW620 DEHW630 DEHW640 DEHW655 DEHW670
Impression Coping - Pick-Up	Туре			Code	e No.	
	Hex N-Hex	Mir DEIM DEIM	40H	Regu DEIR50H DEIR50N	ular DEIR60H DEIR60N	Wide DEIW60H DEIW60N
$Impression \ Coping + Guide \ Pin \ Set \ Code : Impression \ Coping \ Code + \ S(ex: DEI)$	M40HS)					,
Impression Coping - Transfer	Туре				e No.	I
Hex N-Hex	Hex N-Hex	Mir DETIM DETIM	140H	Regu DETIR50H DETIR50N	ılar DETIR60H DETIR60N	Wide DETIW60H DETIW60N
Impression Coping+Guide Pin Set Code : Impression Coping Code + S(ex: DET	FIM40HS)					,
Lab Analog	Platform Diameter	•		С	ode No.	
	Mini DELAM Regular DELAR Wide DELAW					

Cemented Abutment	Туре	Cuff	Height(H)	Code No.			
				Mini	Regu	lar	Wide
Time	Hex	1mm	6mm	DECAM416H	DECAR516H	DECAR616H	DECAW616H
н 📗		2mm		DECAM426H	DECAR526H	DECAR626H	DECAW626H
		3mm		DECAM436H	DECAR536H	DECAR636H	DECAW636H
Hex		4mm		DECAM446H	DECAR546H	DECAR646H	DECAW646H
		1mm	8mm	DECAM418H	DECAR518H	DECAR618H	DECAW618H
		2mm		DECAM428H	DECAR528H	DECAR628H	DECAW628H
		3mm		DECAM438H	DECAR538H	DECAR638H	DECAW638H
		4mm		DECAM448H	DECAR548H	DECAR648H	DECAW648H
	N-Hex	1mm	6mm	DECAM416N	DECAR516N	DECAR616N	DECAW616N
Cuff: 1, 2, 3, 4mm		2mm		DECAM426N	DECAR526N	DECAR626N	DECAW626N
N-Hex		3mm		DECAM436N	DECAR536N	DECAR636N	DECAW636N
		4mm		DECAM446N	DECAR546N	DECAR646N	DECAW646N
		1mm	8mm	DECAM418N	DECAR518N	DECAR618N	DECAW618N
		2mm		DECAM428N	DECAR528N	DECAR628N	DECAW628N
		3mm		DECAM438N	DECAR538N	DECAR638N	DECAW638N
		4mm		DECAM448N	DECAR548N	DECAR648N	DECAW648N

^{*} Abutment+Abutment Screw Set Code : Abutment Code + S(ex: DECAM416HS)

Angled Abutment	Angle	Cuff	Height(H)	Code No.			
	15°	2mm 4mm	8mm	Mini DEAAM4215 DEAAM4415	Regu DEAAR5215 DEAAR5415	lar DEAAR6215 DEAAR6415	Wide DEAAW6215 DEAAW6415
Cuff: 2, 4mm	25°	2mm 4mm	8mm	DEAAM4225 DEAAM4425	DEAAR5225 DEAAR5425	DEAAR6225 DEAAR6425	DEAAW6225 DEAAW6425

^{*} Abutment+Abutment Screw Set Code : Abutment Code + S(ex: DEAAM4215S)

Gold UCLA	Туре	Code No.		
Hex N-Hex	Hex N-Hex	Mini DEGUMH DEGUMN	Regular DEGURH DEGURN	Wide DEGUWH DEGUWN

^{*} Abutment+Abutment Screw Set Code : Abutment Code + S(ex: DEPMHS)

Plastic UCLA	Туре	Code No.		
Hex N-Hex	Hex N-Hex	Mini DEPMH DEPMN	Regular DEPRH DEPRN	Wide DEPWH DEPWN

 $[\]hline * Abutment + Abutment Screw Set Code : Abutment Code + S(ex: DEPMHS) \\$

Temporary Abutment	Platform Diameter	Туре	Code No.
	Ø4.0	Titanium	DETMH
11 11	Ø4.5	Hex	DETRH
Titanium	Ø5.5		DETWH
60 60	Ø4.0	Titanium	DETMN
Hex N-Hex	Ø4.5	N-Hex	DETRN
	Ø5.5		DETWN
	Ø4.0	Peek	DEPTMH
	Ø4.5	Hex	DEPTRH
Plastic	Ø5.5		DEPTWH
	Ø4.0	Peek	DEPTMN
Hex N-Hex	Ø4.5	N-Hex	DEPTRN
1 TUN 1 TT 1 (EA	Ø5.5		DEPTWN

 $[\]hline * Abutment + Abutment Screw Set Code : Abutment Code + S(ex: DETMHS) \\$

e-Clean O-Ring Abutment Components

O-Ring Abutment	Platform Diameter	Cuff	Code No.
Cuff. 2, 4mm	Ø4.1	2mm 4mm	DEORRA20 DEORRA40
	Ø5.1	2mm 4mm	DEORWA20 DEORWA40

O-Ring Lab Analog	Code No.
	DOLA

0-Ring Retainer	Code No.
Bir(3)	DOR

0-Ring	Code No.
	ORING

Cleanlant Surgical Kit





e-Ĉlean tapered Drilling Sequence

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D4 Bone Point drill \rightarrow \emptyset 2, 2 drill \rightarrow \emptyset 2, 2/2, 8 pilot drill \rightarrow \emptyset 2, 8 drill \rightarrow \emptyset 3,5 fixture Point drill \rightarrow \emptyset 2, 2 drill \rightarrow \emptyset 2, 2 drill \rightarrow \emptyset 2, 8 drill \rightarrow \emptyset 3,5 tapered drill \rightarrow \emptyset 3,5 tapered drill \rightarrow \emptyset 3,5 fixture Point drill \rightarrow \emptyset 2, 2 drill \rightarrow \emptyset 2, 2 drill \rightarrow \emptyset 2, 8 drill \rightarrow \emptyset 3,5 tapered drill \rightarrow \emptyset 4,1 fixture Point drill \rightarrow \emptyset 2,2 drill \rightarrow \emptyset 2,2/2,8 pilot drill \rightarrow \emptyset 2,8 drill \rightarrow \emptyset 3,5 tapered drill \rightarrow \emptyset 4,1 fixture Point drill \rightarrow \emptyset 2,2 drill \rightarrow \emptyset 2,2/2,8 pilot drill \rightarrow \emptyset 2,8 drill \rightarrow \emptyset 3,5 tapered drill \rightarrow \emptyset 4,1 tapered drill \rightarrow \emptyset 5,1 fixture Point drill \rightarrow \emptyset 2,2 drill \rightarrow \emptyset 2,2/2,8 pilot drill \rightarrow \emptyset 2,8 drill \rightarrow \emptyset 3,5 tapered drill \rightarrow \emptyset 4,1 tapered drill \rightarrow \emptyset 5,1 fixture Point drill \rightarrow \emptyset 2,2 drill \rightarrow \emptyset 2,2/2,8 pilot drill \rightarrow \emptyset 2,8 drill \rightarrow \emptyset 3,5 tapered drill \rightarrow \emptyset 4,1 tapered drill \rightarrow \emptyset 5,1 fixture Point drill \rightarrow \emptyset 2,2 drill \rightarrow \emptyset 2,2/2,8 pilot drill \rightarrow \emptyset 2,8 drill \rightarrow \emptyset 3,5 tapered drill \rightarrow \emptyset 4,1 tapered drill \rightarrow \emptyset 5,1 fixture Point drill \rightarrow \emptyset 2,2 drill \rightarrow \emptyset 2,2/2,8 pilot drill \rightarrow \emptyset 2,8 drill \rightarrow \emptyset 3,5 tapered drill \rightarrow \emptyset 4,1 tapered drill \rightarrow \emptyset 5,1 fixture Point drill \rightarrow \emptyset 2,2 drill \rightarrow \emptyset 2,2/2,8 pilot drill \rightarrow \emptyset 3,5 tapered drill \rightarrow \emptyset 4,1 tapered drill \rightarrow \emptyset 5,1 tapered drill
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