



*Enjoy!  
BMP tissue regeneration performance!*

The incomparable effect of BMP for alveolar bone and periodontal regeneration!

**GMP** Korea FDA certification

Stem cell stimulation for bone regeneration

Worldwide export network

## No.1 The first Manufacturer of dental implants and rhBMP-2-coated bone graft in Korea

March 1994 Dr.Kim developed first dental implant in Korea.

November 1999 BIOPLANT implant system was approved from Korea FDA.

December 1999 Research cooperation with Oral Biology Engineering Institute in Pusan national university.

May 2000 Cowellmedi Co., Ltd. was established.

September 2004 Medaled for contribution of developing implant from Korea government.

May 2005 ATLAS implant system was approved from FDA and CE.

March 2006 CWM USA Inc. was established in California, USA.

October 2006 Cowellmedi Tissue Engineering Institute for growth factors was established.

July 2007 Acquired patent of rhBMP-2 coated dental implant in South Korea.

January 2008 rhBMP-2 reagent was produced.

January 2009 Dental synthetic bone graft material(BIO-C) was approved from Korea FDA.

January 2009 Clinical trial of rhBMP-dental bone graft material(COWELLBMP) was done.

September 2010 COWELLBMP was approved from Korea FDA.

February 2011 Patent of rhBMP-2 coated dental implant was registered in USA.

December 2011 Released INNO Implant system.

December 2013 Obtained USFDA approval for its INNO SLA Implant System(Sub.).

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The pioneers in Dental Implant & E.rhBMP-2

# COWELLMEDI IMPLANT SYSTEM

**CWM**  
Cowellmedi Co., Ltd.

*Simple implant placement and fast loading!*

The pioneer in Korean dental implants is now working with the world !

**FDA** US FDA certification

**CE 0123** European Quality Assurance

Worldwide export network

## INNO Implant System

Various Types of Abutments, Including Submerged / Internal / External

Submerged

- Hex 2.5  
Length: 7/8/10/12/14mm  
Diameter: Ø3.5/4.0/4.5/5.0/6.0
- Hex 2.5 SHORT  
Method Surface: 1mm  
Cuff: 1.8/2.4mm  
Length: 4mm  
Diameter: Ø3.5/4.0
- Hex 2.3 NARROW  
Length: 7/8/10/12/14mm  
Diameter: Ø3.5

Internal

- Octa 3.1  
Platform: Ø4.0/4.5  
Cuff: 1.8/2.4mm  
Length: 7/8/10/12/14mm  
Diameter: Ø3.5/4.0/4.5/5.0/6.0

Abutment & Impression

External

- Hex 2.7/3.4  
Platform: Ø4.1/5.1  
Length: 7/8/10/12/14mm  
Diameter: Ø3.5/4.0/4.5/5.0/6.0

Abutment & Impression

Submerged

- Temporary
- Meta G UCLA
- Plastic UCLA
- Cemented I
- Angulated
- Milling
- Absolute
- Staple
- Ball Attachment
- D- Abutment
- Pick-up Impression Coping I
- Transfer Post & Screw I
- Replica
- Impression Cap
- Positioning Cylinder
- Lab Analog
- Plastic Coping
- Ball Attachment Analog
- Lab Analog
- Impression Coping
- Temporary II
- Meta G UCLA II
- Cemented II
- Angulated II
- Milling II
- Cemented II
- Pick-up Impression Coping II
- Transfer Post & Screw II
- Replica
- Impression Cap II
- Lab Analog II
- Plastic Coping II
- Straight/NARROW

Internal

- Meta G UCLA
- Cemented
- Angulated
- Solid
- Shoulder
- Ball Attachment
- Pick-up Impression Coping
- Transfer Post & Screw
- Replica
- Impression Cap
- Positioning Cylinder
- Lab Analog
- Plastic Coping
- Impression Cap
- Positioning Cylinder
- Lab Analog
- Ball Attachment Analog

## Regeneration system

**COWELLBMP rhBMP-2 + β-TCP/HA**

- rhBMP-2 is produced in E. Coll. system.
- Bone graft material initially made in South Korea by freeze-drying recombinant human bone morphogenic protein type 2 (rhBMP-2) on the surface of β-TCP.
- CowellBMP has been approved by Korea Food and Drug Administration (KFDA) in 2010.
- Simplifies challenging bone grafting and soft tissue regeneration
- Acts directly on stem cells.

**BOSS (BMP bone graft and Open Sheet System)**

Boss is a novel BMP-based suturing technique which allows simultaneous regeneration of osseous & soft tissue and bone.

**BIO-C β-TCP/HA(7:3). Synthetic bone graft**

- Osteoconductive resorbable synthetic bone graft material.
- Bio-C allows bone cell (Osteoblasts and Osteoclasts) attachment, proliferation, and cell expression that is similar to those elicited by a natural bone.
- Has 70% of porosity.
- Is composed of a bio-resorbable biphasic calcium phosphate ceramics.
- It is soluble and gradually dissolves in the body, seeding new bone formation after implantation at bone defect.

**INNO-OSS FDA, Cortical 50% Cancellous 50%**

- It is an ideal combination of 50% cortical powder and 50% cancellous powder for bone induction.
- The 50% Cortical powder maintains the space of the transplanted area during the new bone formation due to the delayed absorption rate.
- 50% Cancellous powder is rich in minerals and collagen that promote cell adhesion, bone remodeling, and vascular re-formation.
- We recommend use of this product with the CowellBMP.

**MEGA-DERM Acellular Dermal Matrix**

- This product can carry out the functional blocks of the membrane (soft tissue penetration protection) due to its long absorption period, and has excellent manipulability.
- The world's first E-Beam sterilization can induce safe and prompt engraftment.
- This product is the first in the world with the basement membrane layer removed (patent pending) to maximize the transplant engraftment rate.
- Remove the basement membrane layer using a superfine processing technology.

## MINI PLUS Implant System

Convenient and Simple INNO Surgical Kit

- The implant time is shortened because the fixture can be implanted with just three drillings for general bone quality. (when implanting Ø3.5-Ø4.5 fixtures).

SUB. FULL KIT INT. FULL KIT Ext. Full Kit

SUB. S-KIT SUB. PROSTHETIC KIT

**Cement Type**

- Prosthesis is cemented on squared abutment.
- Impression coping and lab analogue and healing cap is supported.
- When abutment is modified, direct impression is recommended.
- Two height grooves at 5, 7 mm facilitates reduction of abutment length.

**Ball Type**

- Used permanently or temporarily for overdenture's support.
- Hexagonal driver is adapted to 2.4 mm external hexagonal portion of implant.

## Special Kit

**SINUS LIFT KIT**

Is composed of modified tap drills and spreaders. This lifts maxillary sinus floor and separate Schneiderian membrane.

- Sinus Lift
- Sinus floor is crushed and bone particles is spreaded between Schneiderian membrane and bone. As result, membrane is separated by particles.
- Spread
- Allow bone condensation in weak bone and ridge split in thin bone with decortications window.

**Sinus Membrane Elevation**

**Surgical Tools**

Cutting edge: Crush intra-sinus bone into particles.  
Thread: Make upward pushing force of apical cutting edge.  
Adapt hexagonal portion: Repeat adaptor is connected.

**REMOVAL KIT**

This product has tools for the safe and quick removal of fractured abutments or screws.

**Surgical Tools**

Abutment Removal Driver Screw Removal Driver Screw Tap Repair Driver Guide Machine Adapter Slot Driver

**TREPINE KIT**

An easy-to-use kit containing drills for block-type bone collection, failed fixture removal, lateral approach for sinus lift and bone chip extraction prior to Implant Placement.

**Surgical Tools**

Block Bone Guide Block Bone Trepine Drill Fixture Removal Trepine Drill Window Opening Trepine Drill Implant Site Drill