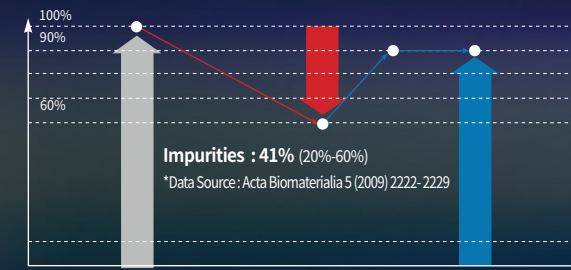
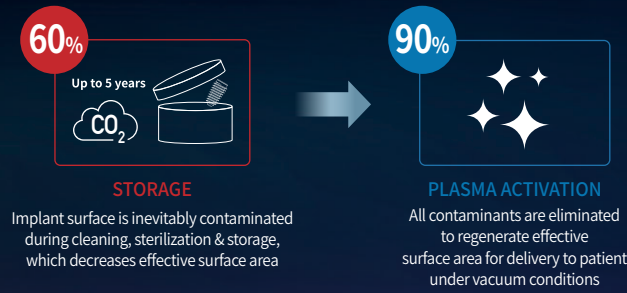
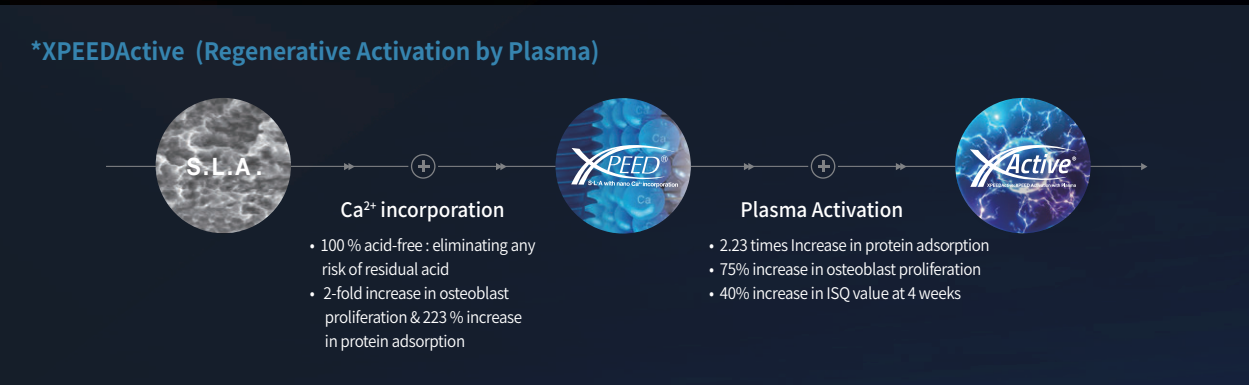


## Novel vacuum plasma technology for Regenerative activation of dental implants

Plasma removes hydrocarbons & contaminants from implant surface to increase hydrophilicity & improve osseointegration.

XPEEDActive cycle of Plasma X Motion proven to increase attachment, proliferation, & differentiation of osteoblast cells, as well as protein adsorption.

Plasma X Motion improves performance of implant surface.



Model	Plasma X motion
Size (W*H*D)	169*345*264
Weight	6 kg
Cycle Time	50 sec

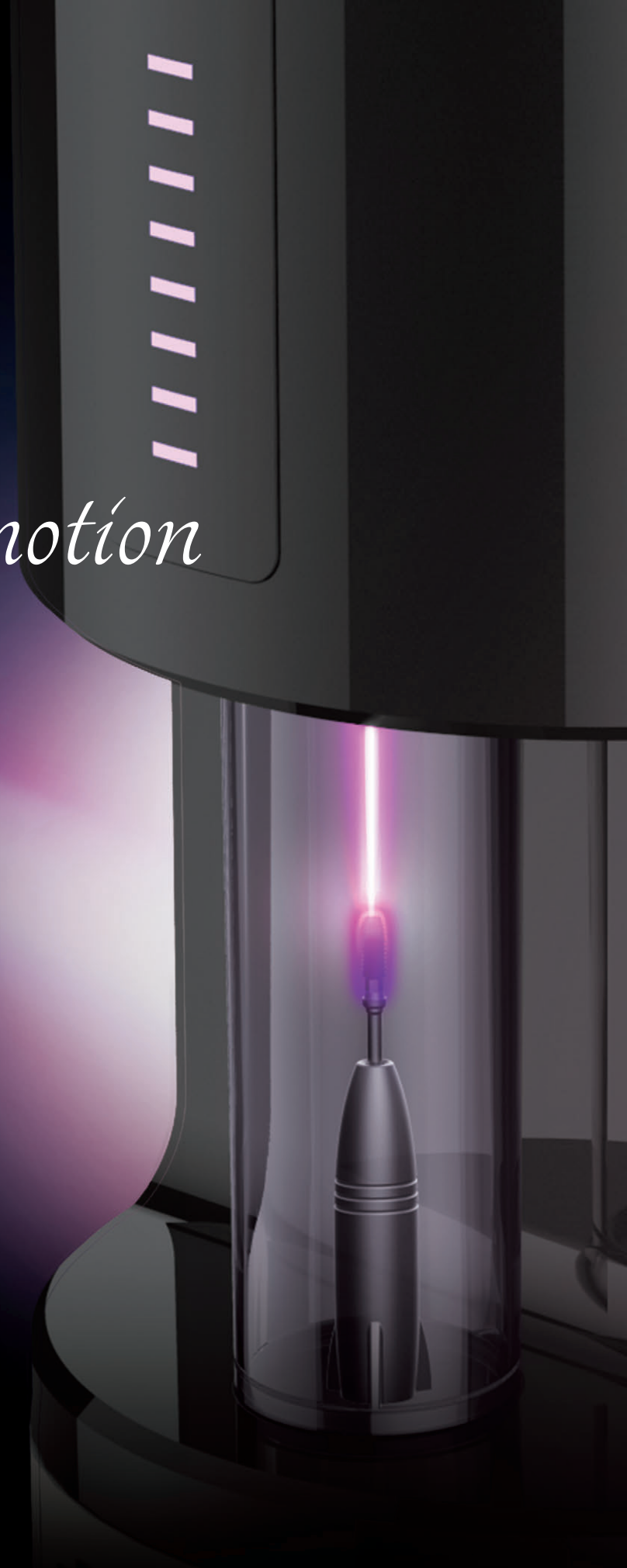
**Plasma X motion**

Regenerative Activator for ALL Types of Implant



**Plasma X motion**

REGENERATIVE ACTIVATOR  
for ALL Types of Implant



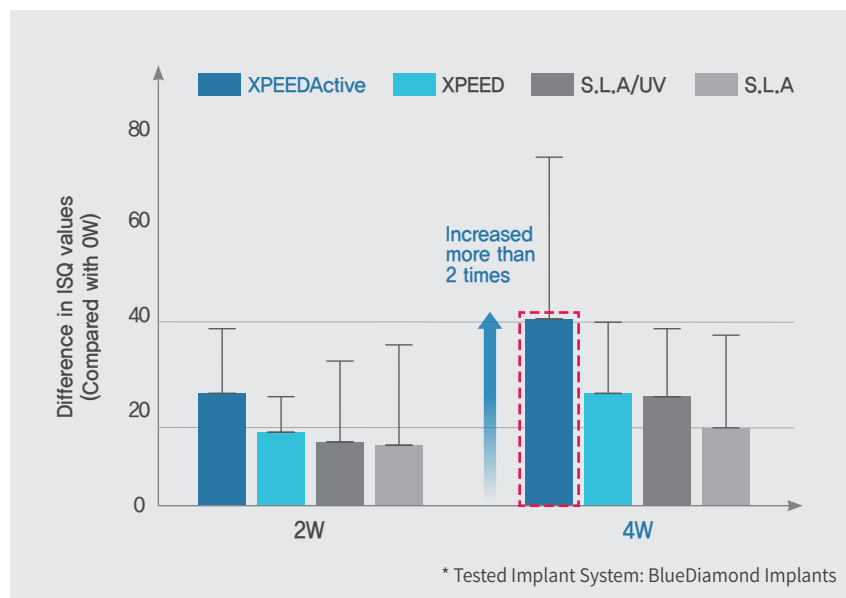
Head Office  
Gangnam Office

45, Secheon-ro 7-gil, Dasa-eup, Dalseong-gun, Daegu, Korea  
MegaGen Tower, 607 Seolleung-ro, Gangnam-gu, Seoul, Korea

T. +82-1544-2285  
T. +82-1566-2338

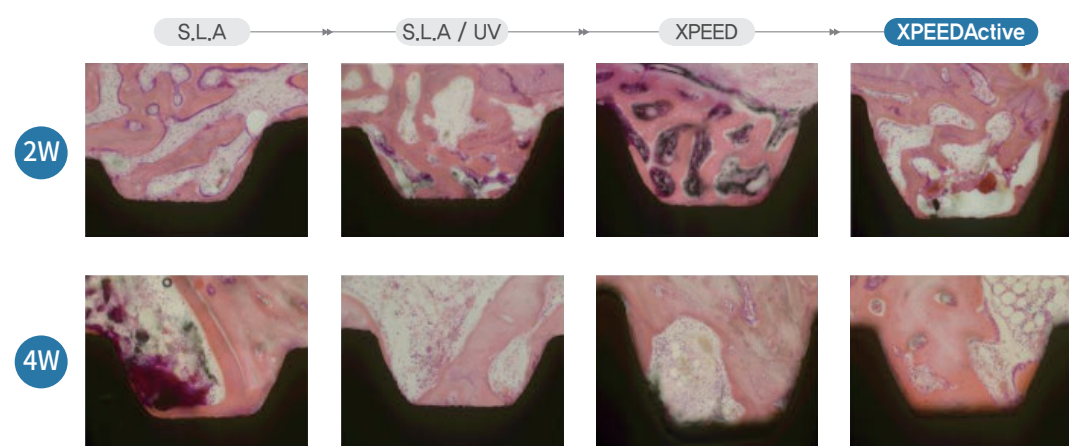


### Technologies developed to shorten healing time & enhance stability



- All showed high ISQ values after 2 weeks
- Largest increase in ISQ value was observed in XPEEDActive group after 4 weeks

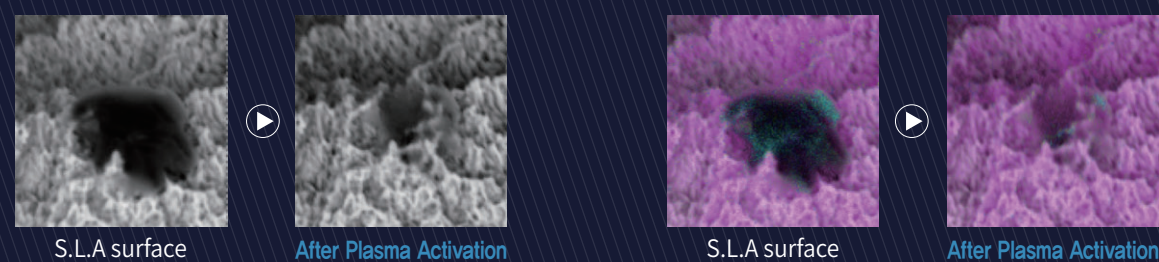
\* XPEEDActive: plasma treatment reactivated XPEED implant surface



- In tissue analysis, XPEEDActive surface group showed more active bone induction than S.L.A surface group

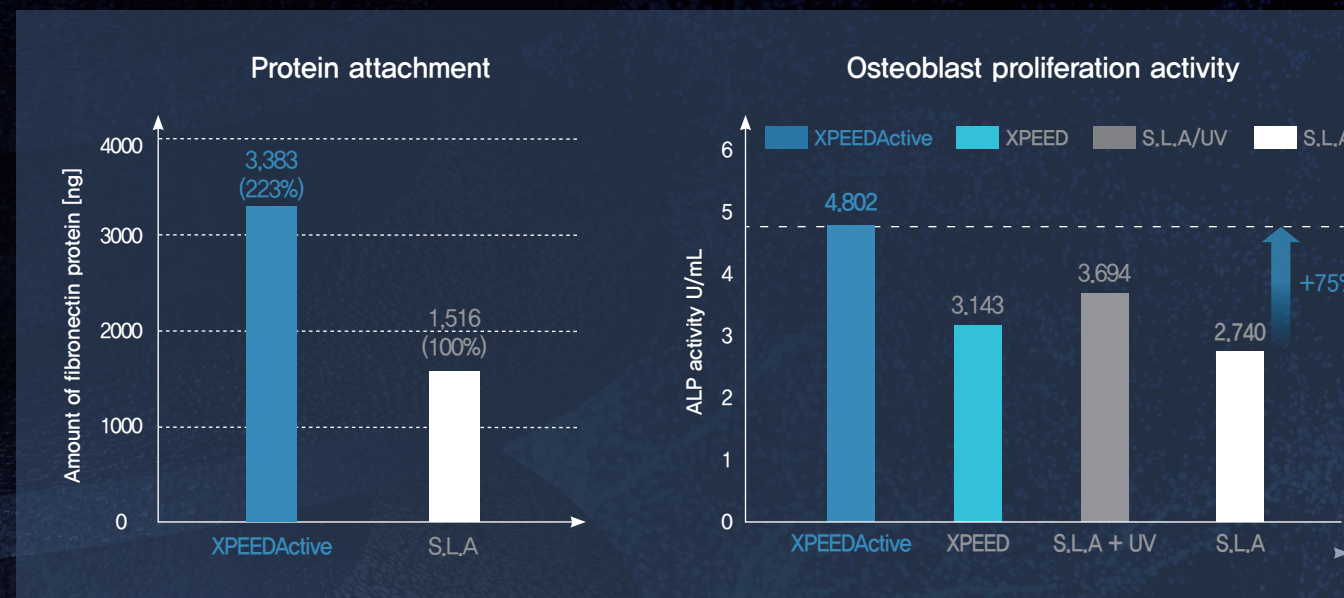
\* Evaluating the effectiveness of plasma-treated implants using a rabbit model/ Daegu-Gyeongbuk Medical Innovation Foundation (2022)

### Plasma Regenerative Activation Implant Comparison (SEM)

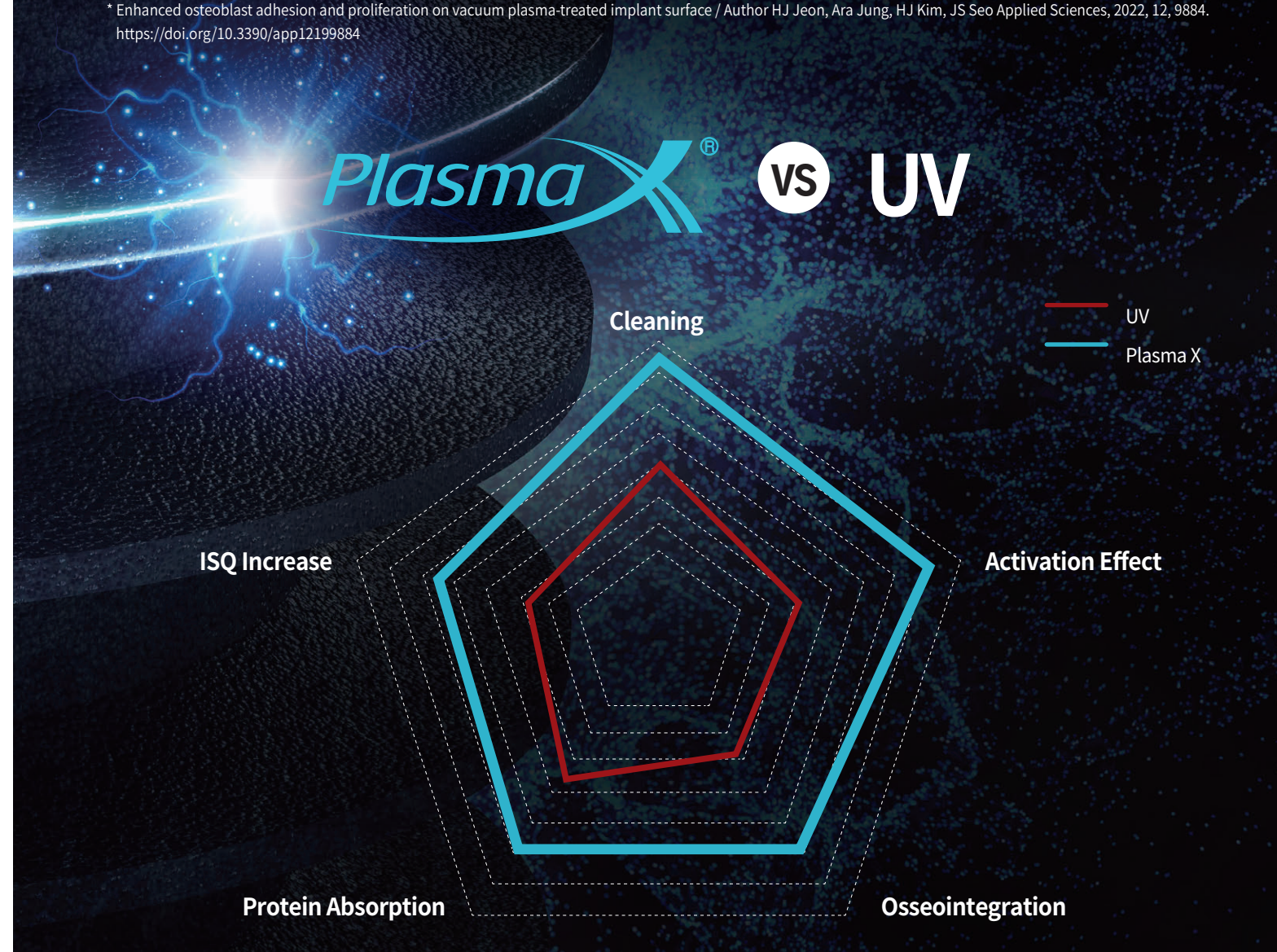


\*Ti: Pink Zone, CHx: Green Points

### Increased protein adsorption rate & osteoblast proliferation activity rate

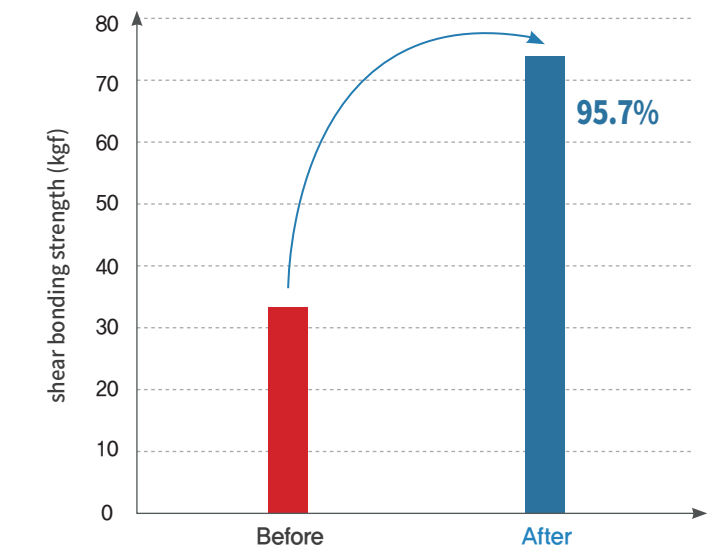
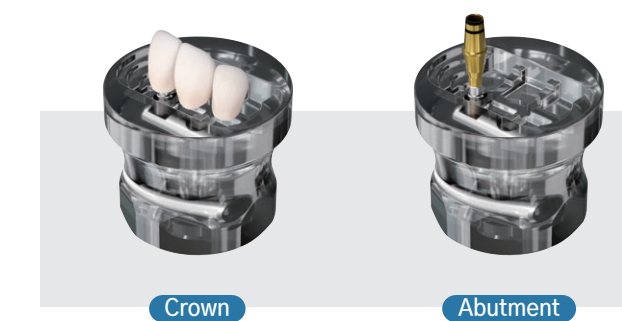


\* Enhanced osteoblast adhesion and proliferation on vacuum plasma-treated implant surface / Author HJ Jeon, Ara Jung, HJ Kim, JS Seo Applied Sciences, 2022, 12, 9884. <https://doi.org/10.3390/app12199884>



### Improved resin cement bonding strength

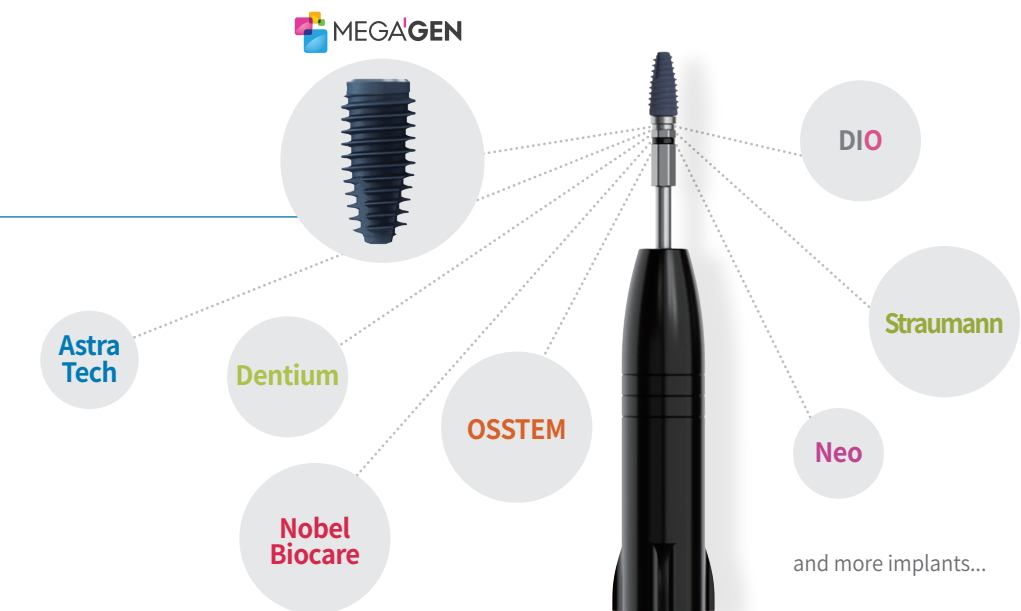
Super hydrophilic effect produces 95.7% increase in surface bonding strength of resin cement



\* Effect of Vacuum Plasma Treatment on Surface Bonding Strength of Resin Cement / Author YJ Chae, SM Lee, SJ Park, HW An J Future dentistry, 2022, Vol. 2: No. 2: 14-18

### Compatibility

- ALL implant brands
- ALL abutments
- ALL crowns (single / bridge)



### Visual impact of plasma treatment

- Create best implant condition for patients
- Increase patient consent rate using visual impact of plasma treatment

