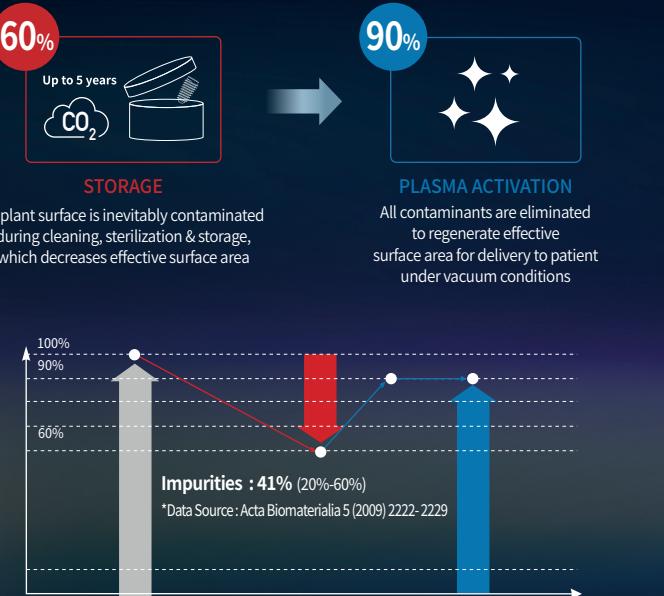
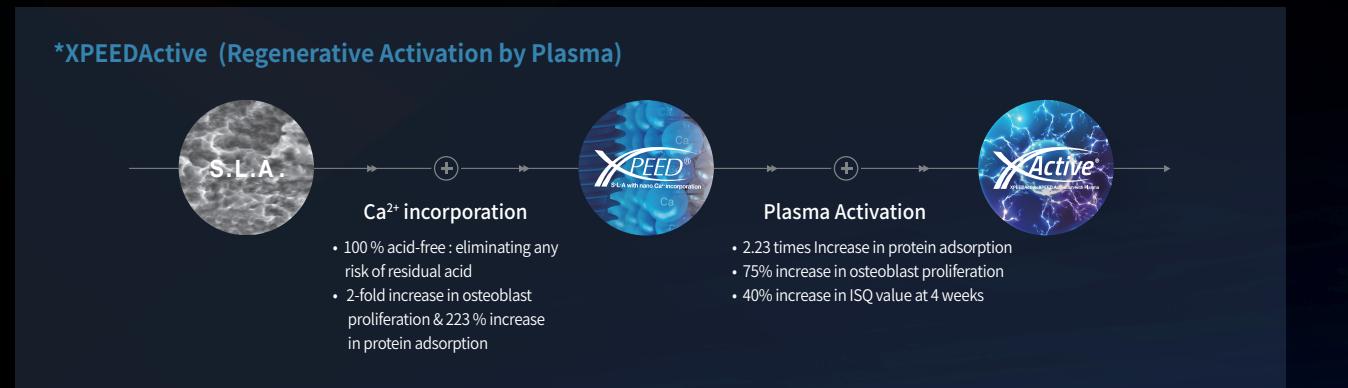


## Novel vacuum plasma technology for Regenerative activation of dental implants

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



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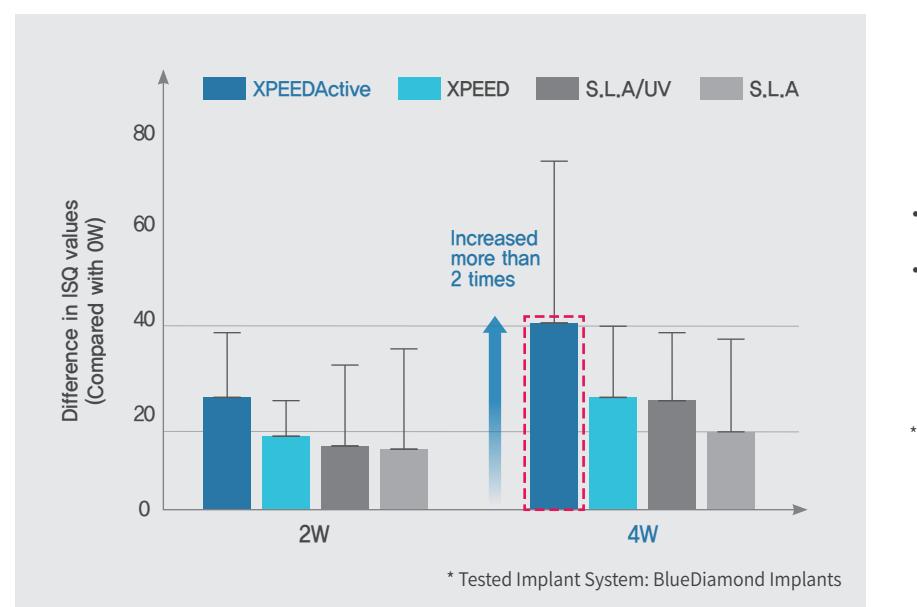


**Plasma X<sup>®</sup> motion**

**REGENERATIVE ACTIVATOR**  
for ALL Types of Implant

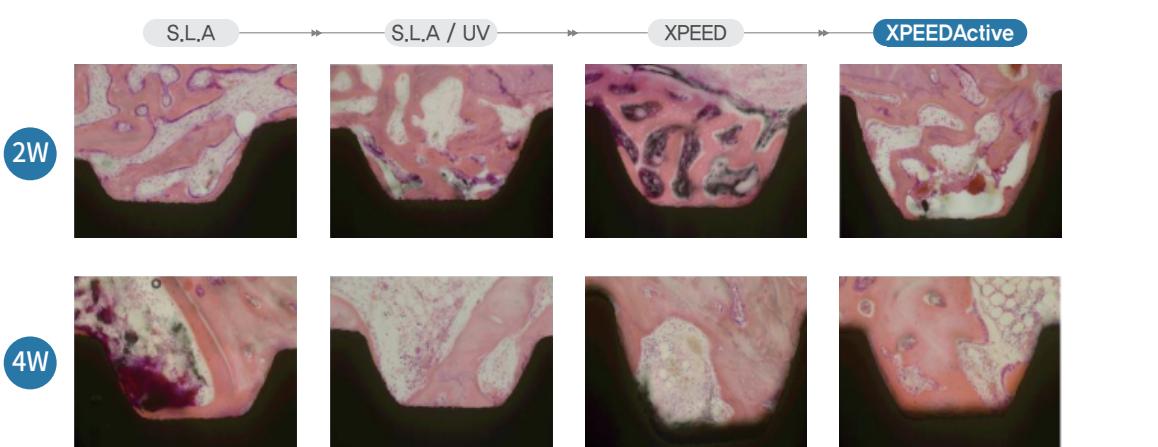


## Technologies developed to shorten healing time &amp; enhance stability



- 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



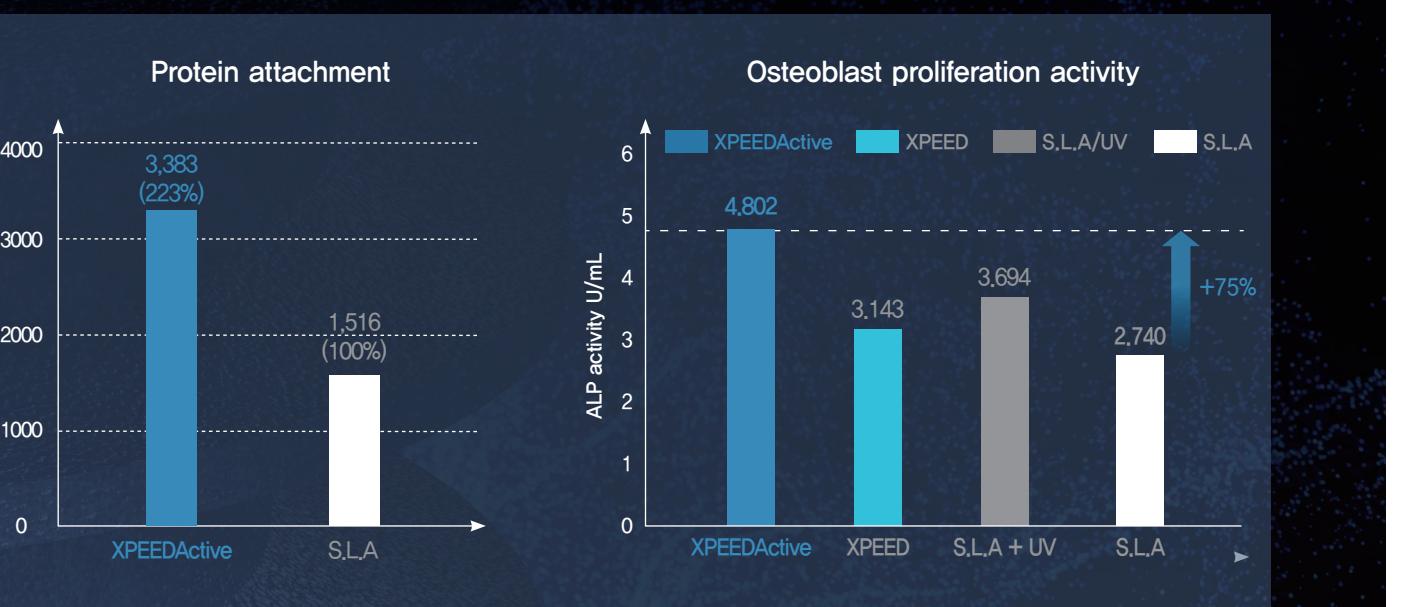
- In tissue analysis, XPEEDActive surface group showed more active bone induction than S.L.A surface group

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

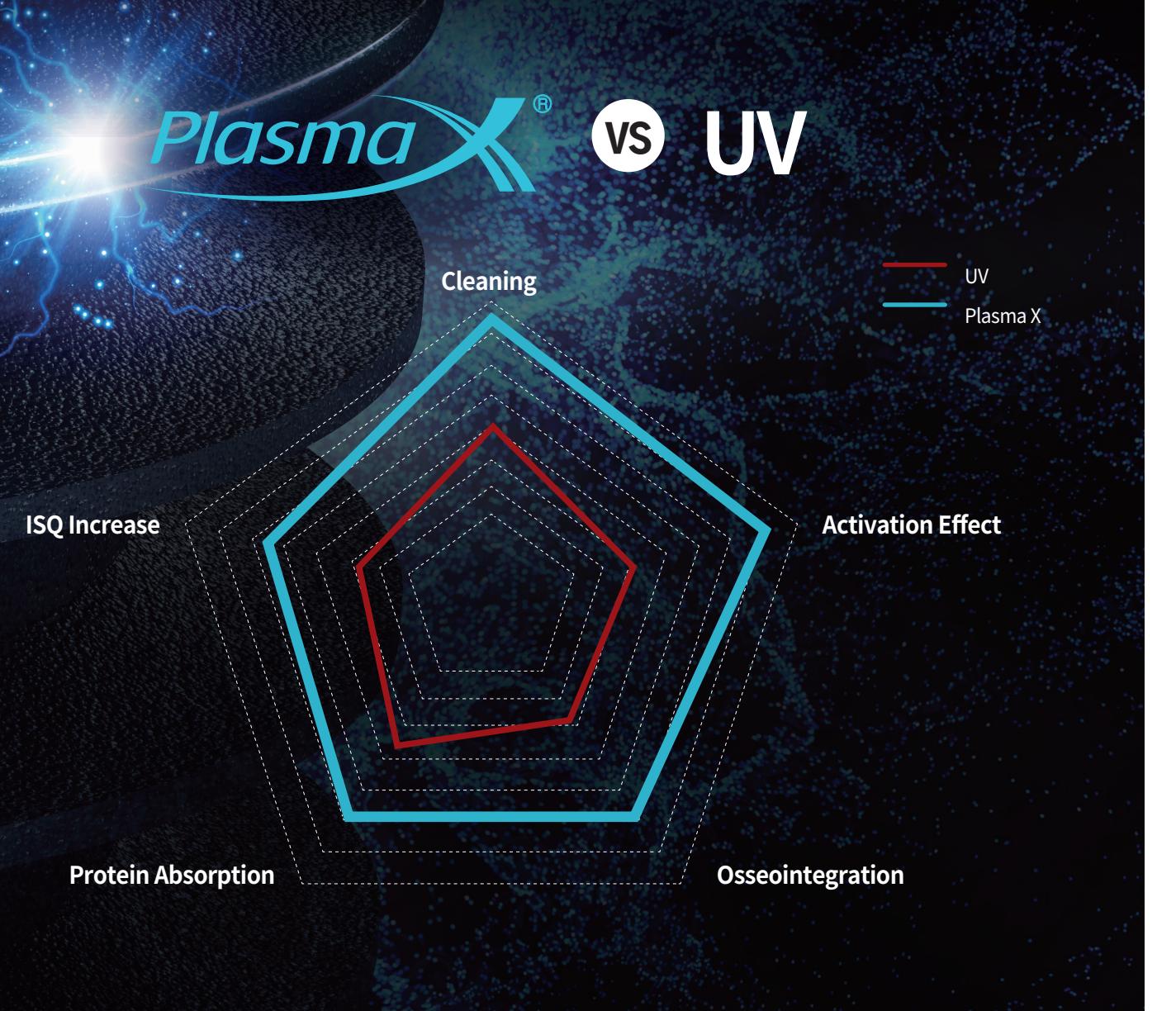
## Plasma Regenerative Activation Implant Comparison (SEM)



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

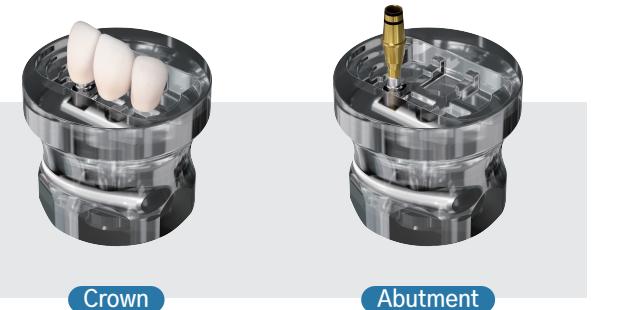


\* Enhanced osteoblast adhesion and proliferation on vacuum plasma-treated implant surface / Author HJ Jeon, Ara Jung, HJ Kim, JS Seo Applied Sciences, 2022, 12, 9884. <https://doi.org/10.3390/app12199884>

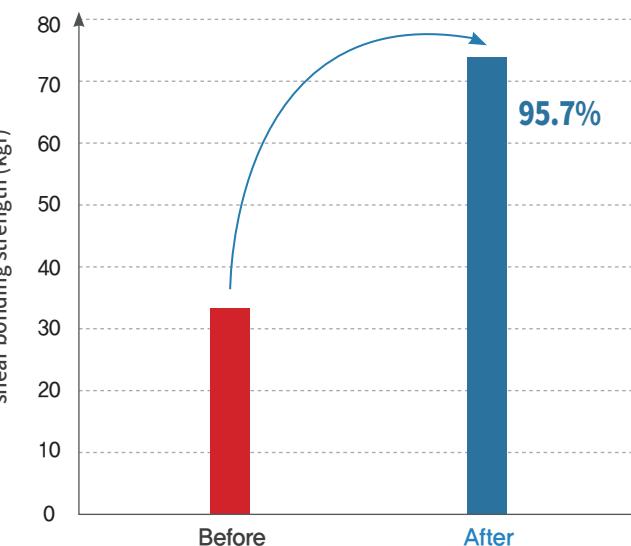


## Improved resin cement bonding strength

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

