

# DENTAL AND ORAL HEALTH CONGRESS

May 13-14, 2019 Osaka, Japan



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### **A comparison of different dental implant designs: Does it really make a difference?**

Dental implants are available in a multitude of materials and designs. However, some designs may be more ideal in a given situation than others. Most implant designs use grade 2, 4, or 5 titanium. Other designs cryo treat the titanium or use other materials, such as tantalum. Implant macro design topology include thread pitch angle, thread depth, thread number and thread cross sectional designs. Micro design topologies are the microscopic surface roughness of various forms created by acid etching, surface blasting and chemical treatments. Active chemical treatments involve using calcium, phosphorous, fluoride and other compounds to create a bioactive surface. The design of the implant-abutment interface, usually categorized as an external or internal connection, may be proprietary depending upon the implant system. Platform switching designs are the mismatch of a smaller diameter abutment mated to a larger diameter implant body interface and may have beneficial biological effects.

### **Biography**

Gregory K Louie started his dental experience as a Dental Technician before receiving his dental degree from the University of the Pacific in 1986 in San Francisco, CA. After practicing as a General Dentist for several years he completed advanced training in dental implants at Brookdale Hospital in Brooklyn, NY. He created the tri valley implant study group implant continuum in 2013. He also holds Membership with the ADA, CDA, ACP, AACD, AAID, ICOI and AO.

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