

# Dentistry & Oral Care

April 18-20, 2016 Dubai, UAE

## Micro-movements and bacterial penetration on different implant-abutment connection system

Cesare D' Orsogna

University of Dental School Lingotto, Italy

**Aim & purpose:** The aim of this study was to analyze micromotion, presence of microgap and to evaluate, in vitro, the bacterial penetration through the implant-abutment interface of external hexagon, internal hexagon and morse taper connection, subjected to mechanical fatigue. A microgap has been described at the level of the implant-abutment connection. This microgap can be colonized by bacteria and this fact could have relevance on the remodeling of the peri-implant crestal bone and on the long-term health of the peri-implant tissue. Dental implants like natural teeth can be affected by microorganism with the effect of peri-implantitis and peri-implant mucositis.

**Material & Method:** Multiples dental implants of external hexagon, internal hexagon and morse taper connection and their conical abutments with 10-years or longer follow-up times were found through a Pub Med, manual search and different international universities.

**Results:** Presumably Morse cone connection implants showed the lowest count of microorganism, unlike external and internal hex implants showed a higher incidence of bacteria.

**Summary & Conclusion:** However, the pumping effect caused by the micro-movements plays an important role for crestal bone resorption is ascertained that the bone is contaminated with the presence of the microorganism and with the liquid contained in dental implant.

### Biography

Cesare D' Orsogna graduated in Dentistry at the University European of Madrid (Spain). After a three-year general practice at the University European of Madrid Hospital in Spain and one year general practice at the University Gabriele D'Annunzio in Italy, he received his specialty certificate through two-year Post graduate in Periodontics and Dental Implantology at the New York University College of Dentistry. He received his specialty certificate through one year of Master in fixed Prosthodontics at the University of Dental School Lingotto in Torino. Recently he has lectured nationwide and international in Bangkok (Thailand) for FDI 2015, Italy, Spain. He published an article with title "Microgap, micro-movement and Bacterial penetration in different implant-abutment connection system" at the New York University College of Dentistry and at the FDI 2015 in Bangkok. He is a member of several national societies (SidP, AIOP and SIO). His dental practice in Italy is related to Implantology, Prosthodontics and Periodontics.

[cesaredorsogna@alice.it](mailto:cesaredorsogna@alice.it)

### Notes: