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Measurement of compressive load through varied torquing methods in different implant systems

Implant torque compressive loads in various implant systems

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Purpose: To measure the compressive load between implant platform and abutment using pressure sensitive pre scale sensors.

Methods: Two implants (Nobel Biocare and Alpha biocare Implants) were drilled into the goat bone. The pre-scale sensors were then placed in between the implant abutment and the implant screw, where 15 males and 15 females delivered the torque by thumb tightening. The pressure areas on the sensor sheet were then scanned in an Epson scanner and the results were tabulated.

Results: The results showed that there is significant difference in compressive load values between the two implant systems and males and females.

Conclusion: Between the two implant groups, males could generate more compressive loads on the abutment than females. Within the implant system also, males generated more force than females.

Key Words: Implants; Torque wrench; Thumb tightening; pressure sensitive pre-scale sensors; Epson Scanner.

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