

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

# **Evaluation of Nano Surface Implant Osseointegration in Mandibular Bone**

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## *List of Abbreviation*

$\mu\text{m}$	Micro Meter
ALP	Alkaline Phosphatase
AFM	Atomic Force Microscopy
$\text{Al}_2\text{O}_3$	Aluminum Oxide
ASTM	American Society for Testing and Materials
B	Buccal
BD	Bone Density
BIC	Bone Implant Contact
BMPs	Bone Morphogenic Proteins
$\text{Ca}_{10}(\text{PO}_4)_6(\text{OH})_2$	Hydroxyapatite
CaP	Calcium Phosphate
CBCT	Cone-Beam Computed Tomography
CoCrMo	Cobalt-Chromium-Molybdenum
CT	Computed Tomography
D	Distal
DAE	Dual Acid-Etched
DCD	Discrete Crystals Deposition
DR	Digital Radiography
FESEM	Field Emission Scanning Electron Microscopy

H <sub>2</sub> O <sub>2</sub>	Hydrogen Peroxide
H <sub>2</sub> SO <sub>4</sub>	Sulfuric Acid
HA	Hydroxyapatite
hFOB	Human Fetal Osteoblast Cells
HCl	Hydrochloride
HU	Hounsfield Unit
ISQ	Implant Stability Quotient
K Pa	Kilopascal
KV	Kilo Volt
L	Lingual
LIPUS	low intensity pulsed ultra sound
M	Mesial
MA	Milli Ampere
Mm	Milli meter
mod SLA	Modified sand-blasted large grit and acid-etched
MPa	Milli Pascal
MS	Machined Surface
N	Newton
Ncm	Newton Centimeter
Nm	Nano Meter
PEMF	Pulsed Electromagnetic Field