Scientific Review
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OsseoSpeed®
– für eine stärkere und schnellere Osseointegration

Was ist OsseoSpeed?

OsseoSpeed ist eine mäßig raue Implantatoberfläche, die aus einer gestrahlten Titanoberfläche (TiOblast) mit einer zusätzlichen chemischen Behandlung gewonnen wird. Die Oberflächeneigenschaften zeigen die Anlagerung von kleinen Mengen an Fluoridionen auf der Titanoxidschicht[1-7], eine definierte Oberflächenrauigkeit im Mikrometerbereich und eine einzigartige Nanotopografie [1, 2, 4, 8-12]. Die chemischen und physikalischen Eigenschaften der OsseoSpeed-Oberfläche wurden eingehend untersucht und in der wissenschaftlichen Literatur beschrieben[1, 3, 8, 10, 11, 13-21]. Die OsseoSpeed-Oberfläche wurde 2004 für die Implantate des Astra Tech Implant Systems eingeführt*.

Umfangreiche wissenschaftliche Erkenntnisse

Zahlreiche Veröffentlichungen berichteten von einer ähnlichen[22-25] oder erhöhten Knochenbildung sowie einen stärkeren Knochen-Implantat-Kontakt an der OsseoSpeed-Oberfläche im Vergleich zu den Vorgängermodellen[26-33] (TiOblast und maschinierte Titanoberflächen), und das bei einer schnelleren Heilung[34-36]. Die Ergebnisse wurden auch durch humanhistologische Analysen[37-40] und in klinischen Studien[41, 42] bestätigt.

Die Leistungsfähigkeit der OsseoSpeed-Oberfläche ist in verschiedenen experimentellen Modellen mit unterschiedlichen Schwerpunkten dokumentiert: *In vivo* Modelle[6, 43-73] und *In vitro* Modelle[15, 20, 74-85]. Während der frühen Einheilung berichten klinische Studien** über unveränderte Werte des Implantatstabilitätsquotienten (ISQ) und kürzere Einheilzeiten für OsseoSpeed Implantate[41, 42, 86-88]. In Langzeit-Follow-ups zeigen die Daten zu OsseoSpeed-Implantaten stabile oder steigende ISQ-Werte[89-91] sowie gut erhaltenen marginalen Knochen[92] - im Vergleich mit anderen Implantat-Oberflächen übertrifft OsseoSpeed diese in Bezug auf den Erhalt des marginalen Knochens[92].

Verbesserte Osseointegration

Auch Faktoren wie eine erweiterte osteoblastische Differenzierung[2, 7, 26, 75, 93, 94], Biokompatibilität[15, 95-97] sowie die thrombogenen Eigenschaften[8] der OsseoSpeed-Oberfläche tragen zu einer besseren und beschleunigten Osseointegration bei[26-36, 41, 42, 86-88].

* Die OsseoSpeed-Oberfläche wurde 2021 bei DS PrimeTaper Implantaten eingeführt.

** Weitere Informationen zum OsseoSpeed Astra Tech Implant System in der klinischen Verwendung finden Sie im Abstract.

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