

## Clinical Publication List MAGNEZIX®

(Status: 6th February, 2017)

### Original Papers

#### **Biodegradable magnesium-based screw clinically equivalent to titanium screw in hallux valgus surgery: short term results of the first prospective, randomized, controlled clinical pilot study**

Windhagen H<sup>1</sup>, Radtke K<sup>1</sup>, Weizbauer A<sup>1</sup>, Diekmann J<sup>1</sup>, Kreimeyer Y<sup>1</sup>, Schavan R<sup>1</sup>, Stukenborg-Colsman C<sup>1</sup>, Waizy H<sup>1</sup>

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**Biomedical Engineering Online 12:62**

#### **Frühergebnisse von distalen Metatarsale I Osteotomien bei Hallux valgus unter Verwendung eines biodegradierbaren Magnesium-Implantates**

[Short-term results after distal metatarsal osteotomies for hallux valgus, using a biodegradable magnesium-implant]

Christian Plaass<sup>1</sup>, Christian Modrejewski<sup>1</sup>, Sarah Ettinger<sup>1</sup>, Yvonne Noll<sup>1</sup>, Leif Claassen<sup>1</sup>, Kiriakos Daniilidis<sup>1</sup>, Lena Belenko<sup>2</sup>, Henning Windhagen<sup>1</sup>, Christina Stukenborg-Colsman<sup>1</sup>

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**Fuß & Sprunggelenk 2015, 13:148-55**

#### **Degradationsverhalten bioresorbierbarer Magnesium-Implantate bei distalen Metatarsale-1-Osteotomien im MRT**

[Degradation behaviour of magnesium-alloy screws after distal metatarsal osteotomies in MRI]

Modrejewski C<sup>1</sup>, Plaaß C<sup>\*</sup>, Ettinger S<sup>1</sup>, Caldarone F<sup>3</sup>, Windhagen H<sup>1</sup>, Stukenborg-Colsman V<sup>1</sup>, von Falck C<sup>2</sup>, Belenko L<sup>2</sup>

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Radiological joint practice Schwarzer Bär, Hannover, Germany

**Fuß & Sprunggelenk 2015, 13:156-61**

#### **Early results using a biodegradable magnesium screw for modified Chevron osteotomies**

Plaass C<sup>1</sup>, Ettinger S<sup>1</sup>, Sonnow L<sup>2</sup>, Könneker S<sup>4</sup>, Noll Y<sup>1</sup>, Weizbauer A<sup>6,7</sup>, Reifenrath J<sup>6,7</sup>, Claassen L<sup>1</sup>; Daniilidis K<sup>1</sup>; Stukenborg-Colsman C<sup>1</sup>, Windhagen H<sup>1</sup>

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**Journal of Orthopedic Research 2016, 1-8**

### Case reports

#### **Bioabsorbable metal screws in traumatology: A promising innovation**

Biber R<sup>1,2</sup>, Pauser J<sup>2</sup>, Bremb M<sup>1,2</sup>, Bail H J<sup>1,2</sup>

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<sup>2</sup> Nuremberg General Hospital, Department of Orthopaedics and Traumatology, Germany

**Trauma Case Reports 2017 (in press)**

#### **Magnesium-Based Absorbable Metal Screws for Intra-Articular Fracture Fixation**

Biber R<sup>1,2</sup>, Pauser J<sup>2</sup>, Geßlein M<sup>1,2</sup>, Bail H J<sup>1,2</sup>

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**Hindawi - Case Reports in Orthopedics 2016, 1-4**

## Abstracts

### **Biodegradable magnesium Herbert Screw in different modalities – image quality and artefacts**

Belenko L<sup>1</sup>, Könneker S<sup>2</sup>, Wacker F<sup>1</sup>, von Falck C<sup>1</sup>

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*ECR 2015, Poster C-2339, DOI: 10.1594/ecr2015/C-2339*

### **Biodegradable magnesium compression screws for hallux valgus surgery – a three year clinical follow up study**

Reifenrath J<sup>1</sup>, Plaass C<sup>2</sup>, Ettinger S<sup>2</sup>, Sonnow L<sup>3</sup>, Könneker S<sup>4</sup>, Noll Y<sup>2</sup>, Weizbauer A<sup>1</sup>, Claassen L<sup>2</sup>, Daniilidis K<sup>2</sup>, Stukenborg-Colsmann C<sup>2</sup>, Windhagen H<sup>2</sup>

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*European Cells and Materials 2016, 32 Suppl. 6: 51*

## Review Articles

### **Magnesium-Based Compression Screws – a novelty in the clinical use of implants**

Seitz J-M<sup>1</sup>, Lucas A<sup>1</sup>, Kirschner M<sup>1</sup>

<sup>1</sup> Syntellix AG, Aegidientorplatz 2a, 30159 Hannover, Germany

*The Journal of The Minerals, Metals & Materials Society 2016, 68: 1177-82*

### **Der Einsatz bioabsorbierbarer, magnesium-basierter Implantate in der Knochen-Chirurgie**

[The use of bioabsorbable magnesium-based implants in orthopedic surgery]

Kirschner M<sup>1</sup>, Seitz J-M<sup>1</sup>

<sup>1</sup> Syntellix AG, Aegidientorplatz 2a, 30159 Hannover, Germany

*Wehrmedizin & Wehrpharmazie 2016, No. 2: 76f.*

### **MAGNEZIX® - die Revolution in der orthopädischen Chirurgie**

[MAGNEZIX® - the revolution in the orthopedic surgery]

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*Chirurgische Allgemeine Zeitung (CHAZ) 2015, 1-3*

## Radiologic Papers

### **Biodegradable magnesium Herbert screw – image quality and artifacts with radiography, CT and MRI**

Sonnow L<sup>1</sup>, Könneker S<sup>2</sup>, Vogt P<sup>2</sup>, Wacker F<sup>1</sup>, von Falck C<sup>1</sup>

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*(accepted)*

## Planning

### **Bioabsorbable magnesium versus standard titanium compression screws for fixation of distal metatarsal osteotomies - mid-term results of a randomized trial**

Plaaß, Stukenborg, Windhagen et al.

Journal of Orthopedic Science (JOS)

*(submitted)*

### **100 magnesium vs. 100 titanium screws in Hallux valgus surgery**

Klauser H.

Hindawi

*(submitted)*