Coupling with the appliance
Wilmes B., Drescher D.
Benefit – A mini-implant system with interchangeable abutments.
J Clin Orthod 2008; 42:574-580

Wilmes B., Drescher D., Nienkemper M.
Beneplate – A miniplate system for improved stability of skeletal anchorage.
Adaptation

intraorally

on the plaster model
Orthodontist could / should insert Handpiece PSM.
SKELETAL ANCHORAGE

OA Priv. Doz. Dr. Benedict Wilmes, Düsseldorf, Germany

2.0 x 9 mm

2.0 x 11 mm

posterior Mucosa app. 1 mm

anterior Mucosa > 3 mm
Molar distalization

- Beneslider
- Pendulum B

Molar mesialization

- T-Bow
- Mesialslider
- RPE (and facemask)
  Hybrid-Hyrax
- Alignment of retained teeth
- Temporary dental implants
- Molar uprighting
Beneslider OA Priv. Doz. Dr. Benedict Wilmes, Düsseldorf, Germany

Beneplate with 1.1 mm wire

Spring 240 gr/500 gr

BeneTube
Beneplate with 1.1 mm stainless steel wire

**Adolescent:** 240 g coil spring

**Adults:** 500 g coil spring
Beneplate with 0.8 mm stainless steel wire
Beneplate with 0.8 mm stainless steel wire

4 months later
6 months Pendulum
6 months MB
› Total 12 months
ANTERIOR ANCHORAGE, T-BOW

OA Priv. Doz. Dr. Benedict Wilmes, Düsseldorf, Germany
ANTERIOR ANCHORAGE, T-BOW
ANTERIOR ANCHORAGE, T-BOW

OA Priv. Doz. Dr. Benedict Wilmes, Düsseldorf, Germany
7 months later
7 months later
Root Damage and Repair after Contact with Miniscrews
MAINO et al.. JCO. 2007:762

→ interference of roots with mini-implants
→ root damage / mini-implant loosening
Molar uprighting

OA Priv. Doz. Dr. Benedict Wilmes, Düsseldorf, Germany
TEMPORARY PONTIC

→ for adolescents
→ preserves bone?
TEMPORARY PONTIC

OA Priv. Doz. Dr. Benedict Wilmes, Düsseldorf, Germany
TEMPORARY PONTIC

OA Priv. Doz. Dr. Benedict Wilmes, Düsseldorf, Germany
“Bridge technique”
ECTOPIC TEETH

Bracket-Abutment
TMA-Wire 16/22"

OA Priv. Doz. Dr. Benedict Wilmes, Düsseldorf, Germany
ECTOPIC TEETH

OA Priv. Doz. Dr. Benedict Wilmes, Düsseldorf, Germany
MOLAR INTRUSION

OA Priv. Doz. Dr. Benedict Wilmes, Düsseldorf, Germany

Intrusive force

TPA
Molar Intrusion

OA Priv. Doz. Dr. Benedict Wilmes, Düsseldorf, Germany
Goal: Transfer of the force to the maxilla

Ludwig B, Glasl B, Bowman J, Drescher D, Wilmes B. Miniscrew supported Class III Treatment with the Hybrid RPE Advancer.
J Clin Orthod 2010; 44:533-539
intraoral alternative?
Advantages:
- The MentoPlate can be inserted before eruption of the canines
- we can start at the age of 8 years
- Loosening of the midface sutures (RPE effect)
HYBRID-HYRAX AND MENTOPLATE

OA Priv. Doz. Dr. Benedict Wilmes, Düsseldorf, Germany

Hybrid-Hyrax

MentoPlate
Hybrid-Hyrax and Mentoplate

OA Priv. Doz. Dr. Benedict Wilmes, Düsseldorf, Germany
Robert G. Keim, Editor JCO

The Editors Corner J Clin Orthod 2009.43;485-386

Keim: The Editor’s Corner
A Breakthrough in Miniscrew Stability

As with all other practical innovations in orthodontics, temporary anchorage devices (TADs) have involved a significant learning curve. Although Creekmore and Eklund’s seminal paper on skeletal anchorage appeared in JCO more than 25 years ago,1 it remained on the fringes of the profession until around the turn of the century, when the concept took off like a rocket. Since then, paper after paper has illustrated successful treatment of most categories of malocclusion. [more]

Access to the Editor’s Corner are free. For more free articles click here

August 2009 corner: This month’s cover features a 3D volume rendering of a CT scan using software from Anatomage, icc, as described in The Cutting Edge.

www.kfo.uni-duesseldorf.de

OA Priv. Doz. Dr. Benedict Wilmes, Düsseldorf, Germany

Benefit-System
„A Breakthrough in Miniscrew Stability“
Robert G. Keim, Editor JCO
The Editor’s Corner J Clin Orthod 2009.43;485-386

-> Less failures
-> Safer mechanics
**BENEFIT-SYSTEM**

### Product Overview

**BENEFIT Abutment Standard**
- **BENEFIT Abutment mit 1 bracket**
- **BENEFIT Abutment mit 2 brackets**

**BENEFIT Laboratory Analog**
- **BENEFIT Labor/Manipulierimplantat**

**BENEFIT Impression Cap**
- **BENEFIT Abdruckkappen**

**For the complete BENEFIT product range please consult our BENEFIT product flyer KAT-002.**

Das komplette BENEFIT-Programm finden Sie in unserem BENEFIT Prospekt KAT-002.

---

**BENEFIT Set complete consisting of:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>33-54524</td>
<td>Mobilizer for wires from 0.5 to 1.2 mm, 2 ea.</td>
</tr>
<tr>
<td>33-54524</td>
<td>BENEslider springs, 240 gr., 2 ea.</td>
</tr>
<tr>
<td>33-54535</td>
<td>BENEslider Hook lock, 2 ea.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>33-54535</td>
<td>BENEtube, Standard, 2 ea.</td>
</tr>
<tr>
<td>33-54536</td>
<td>BENEtube, large, 2 ea.</td>
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<tr>
<td>33-5450</td>
<td>BENEPLATE short, with 1.1 mm wire, incl. screws</td>
</tr>
<tr>
<td>33-5440</td>
<td>BENEPLATE, long, with 0.8 mm wire (12 cm), incl. screws</td>
</tr>
<tr>
<td>33-5454</td>
<td>BENEslider with 1.1 mm wire, incl. screws</td>
</tr>
<tr>
<td>33-5452</td>
<td>BENEslider with 0.8 mm wire, incl. screws</td>
</tr>
</tbody>
</table>

**Sterile**

<table>
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<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>33-54207</td>
<td>BENEFIT Orthodontic Screw 2.0 mm</td>
</tr>
<tr>
<td>33-54209</td>
<td>BENEFIT Orthodontic Screw 2.0 mm</td>
</tr>
</tbody>
</table>

**BENEFIT Laboratory Analog**
- **BENEFIT Laboratory Analog**
- **BENEFIT Labor/Manipulierimplantat**

**For the complete BENEFIT product range please consult our BENEFIT product flyer KAT-002.**

Das komplette BENEFIT-Programm finden Sie in unserem BENEFIT Prospekt KAT-002.
true progress should be shared

LOMAS

BENEFIT

MESOPLATE

The Orthodontic Implant Family which covers the highest demands of German made Implant Quality.

Certified acc. EN ISO 13485, CE, FDA

www.psm.ms