

Gerhard Küntscher Society
Annual Meeting

Prof. Dr. med. Dr. h. c. mult. Wilhelm Friedl



Osteosynthese International 2016

osteosynthese2016.de

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22-24 SEPTEMBER 2016 | ASCHAFFENBURG

PROGRAMME

Programme overview

Thursday, 22 September	Friday, 23 September		Saturday, 24 September
Cranach-Saal	Cranach-Saal	Tagungszentrum	Cranach-Saal
	<p>08:30–10:30</p> <p>Session III Nail vs. plate vs. prosthesis: humerus</p> <p>p. 15</p>		
	<p>11:00–12:30</p> <p>Session IV Nail vs. plate vs. prosthesis: wrist and forearm</p> <p>p. 16</p>		<p>09:30–11:00</p> <p>Session VII Today's place of ExFix fracture management in primary care, definitive treatment and complication management</p> <p>p. 20</p>
<p>13:30–15:20</p> <p>Session I Nail vs. plate vs. prosthesis: tibia</p> <p>p. 8</p>		<p>13:00–14:00</p> <p>Corporate workshop</p> <p>p. 24</p>	<p>11:30–13:50</p> <p>Session VIII Complication management after infection and pseudarthrosis</p> <p>p. 21</p>
<p>16:00–16:30</p> <p>Opening ceremony</p>	<p>14:30–16:00</p> <p>Session V Nail vs. plate vs. prosthesis: distal lower leg, pilon and ankle fractures</p> <p>p. 17</p>		<p>13:50–14:20</p> <p>Closing ceremony</p>
<p>16:30–18:30</p> <p>Session II Nail vs. plate vs. prosthesis: femur</p> <p>p. 9</p>	<p>16:30–18:30</p> <p>Session VI Nail vs. plate vs. prosthesis: patella, olecranon, proximal metatarsus V, shoulder girdle and peri-implant fractures</p> <p>p. 18</p>	<p>16:00–16:30</p> <p>Corporate workshop</p> <p>p. 24</p>	
<p>18:30–19:30 Poster session</p>			
<p>19:30</p> <p>Welcome reception</p> <p>p. 26</p>	<p>18:30–19:30</p> <p>Assembly of members Gerhard Küntscher Society</p>		
	<p>19:30 Gala dinner (Ridingersaal, Schloss Aschaffenburg)</p> <p>p. 26</p>		

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Organisation and imprint

Venue

Stadthalle am Schloss Aschaffenburg
Schloßplatz 1
63739 Aschaffenburg/DE

Date

22–24 September 2016

Congress website

www.osteosynthese2016.de

Hosting society

Gerhard Küntscher Society
www.kuentschersociety.org

Congress president

Prof. Dr. med. Dr. h. c. mult. Wilhelm Friedl
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Jan Verbruggen (Maastricht/NL)
Robert D. Zura (New Orleans, LA/US)

Welcome note



Dear colleagues,
Dear friends of the Gerhard Küntscher Society,

The Küntscher Society is an internationally active society that originated from a group of enthusiastic and keen Küntscher students dedicated to fracture treatment with intramedullary nailing. Today Osteosynthesis international is promoting all forms of osteosynthesis and fracture care. Due to the increasingly aging population in industrial countries on the one hand and the growing mobility and physical activity of younger people on the other hand, the number of patients with bone fractures has risen continuously. New questions regarding anchoring and load stability together with the development of adequate implants for the individual skeletal regions have been moved into the center of attention.

In case of shaft fractures locking nail osteosynthesis is by far the most common procedure, whilst for fractures of the meta- and epiphyseal area the trend appears to go towards alternative treatment. Type A fractures and simple slightly displaced C fractures are usually treated with anatomically adapted intramedullary nails, multi-fragment fractures are commonly treated using locking plates and highly complex fractures using endoprosthesis.

The importance of treatment choice for the different skeletal regions is still subject for discussions. For this reason, we chose as main topic of the 2016 congress to analyse and discuss today's therapeutic concepts and techniques for all long bones and other anatomic areas. Eight scientific meetings and workshops are on the agenda.

It is our particular intention to pass on this knowledge to the following generation of trauma and orthopaedic surgeons. This is why we also like to encourage doctors in training to participate in this congress since it offers a compact form of knowledge acquisition.

Physiotherapy and rehabilitation professionals are highly welcome to our congress.

We therefore invite you to come to Aschaffenburg from 22–24 September 2016. The city is rich in history and culture and used to be former summer residence for Bishops of Mainz. Frankfurt Airport is only 50 km away and easy to get to.

Best regards

Handwritten signature of Wilhelm Friedl in black ink.

Prof Dr. Dr. h.c. mult. Wilhelm Friedl
Congress president 2016

Handwritten signature of Dr. Jan Verbruggen in black ink.

Dr. Jan Verbruggen
President Gerhard Küntscher Society (GKS)



Ladies and Gentlemen,

It gives me great pleasure to welcome you all to Aschaffenburg, our beautiful city on the river Main. Despite your busy schedule, I hope you will also have time to enjoy the town with its rich history as well as the nice landscape around.

We are honored that you chose to have this international congress of the Gerhard Küntscher Society – Osteosynthese International here in Aschaffenburg. The topic of trauma management is still one of the main issues of the health care system. Worldwide, more years of life are still lost by trauma than by oncological or vascular diseases, because often young people are affected. On the other hand, optimal treatment of fractures is essential for the functional restoration of the patients and brings the trauma patient back to a normal, active life.

Therefore, this meeting, which brings together experienced and young orthopedic trauma surgeons from 18 countries, will be a big contribution to the continuing effort to improve trauma care. The political representatives of both the city of Aschaffenburg and Aschaffenburg County support this effort by establishing a Certified Transregional Trauma Center and SAV Center of the Workers Insurance (BG) here at Klinikum Aschaffenburg.

I wish you all a successful congress, and a wonderful time in Aschaffenburg.

A handwritten signature in black ink that reads "Klaus Herzog". The signature is written in a cursive, flowing style.

Klaus Herzog
Mayor of Aschaffenburg

Scientific programme • Thursday, 22 September

- from 10:30 **Registration**
- 13:00–13:30 **Lunch break and reception**
- 13:30–15:30 **Session I – Nail vs. plate vs. prosthesis: tibia**
Room Cranach-Saal
Chairs Rainer H. Meffert (Würzburg/DE)
 Robert D. Zura (New Orleans, LA/US)
- 13:30 Tibiahead fractures
IL01 Rainer H. Meffert (Würzburg/DE)
- 13:45 Tibiashaft fractures
IL02 Robert D. Zura (New Orleans, LA/US)
- 14:00 How choice of implant used for fracture fixation of long bones affects fracture healing?:
OS1-01 a new fracture-healing matrix is proposed
 Rajat Varma (London/GB)
- 14:15 Fracture fixation in osteoporotic long bone fractures
OS1-02 Rajat Varma (London/GB)
- 14:30 Management of musculoskeletal injuries secondary to gunshot
OS1-03 Rabun Fox, R. D. Zura (New Orleans, LA/US)
- 14:40 Tibial head depression fractures in elderly – a biomechanical study of different
OS1-04 treatment options
 Stefanie Hölscher-Doht, M. C. Jordan, L.-C. Faerber, H. Jansen, S. P. Frey, T. Blunk
 R. H. Meffert (Würzburg/DE)
- 14:50 Simultaneous nailing of the ipsilateral femur and tibia fractures – the up down nail
OS1-05 Ronald Auer, D. Seligson, J. Riehl (Louisville, KY/US)
- 15:00 Intramedullary nailing of tibial fractures – results and complications
OS1-06 Gheorghe Tomoaia, C. Bardas, H. Benea, M. Paiusan, D. Oltean, G. Zsolt
 R. Tomoaia, C. Dan (Cluj-Napoca/RO)
- 15:10 The treatment of the leg fractures using internal medullar nail implants:
OS1-08 retrospective study
 D. Calin, D. Grecu, Alexandruu Grecu, C. Prica, M. Sarbu, W. Shaban (Craiova/RO)

Scientific programme • Thursday, 22 September

- 15:20–16:00 **Coffee break**
Room Industrial exhibition
- 16:00–16:30 **Opening ceremony**
Room Cranach-Saal
- 16:00 Welcome address
Jan Verbruggen (Maastricht/NL)
President of the Gerhard Küntscher Society
- 16:10 Welcome address
Wilhelm Friedl (Aschaffenburg/DE)
Congress president Osteosynthese International 2016
- 16:20 Welcome address
Klaus Herzog (Aschaffenburg/DE)
Mayor of Aschaffenburg
- 16:30–18:30 **Session II – Nail vs. plate vs. prosthesis: femur**
Room Cranach-Saal
Chairs David Seligson (Louisville, KY/US)
Alfred Steindl (St. Pölten/AT)
- 16:30 Proximal femur fractures
IL03 Alfred Steindl (St. Pölten/AT)
- 16:45 Femur shaft and supracondylar fractures
IL04 David Seligson (Louisville, KY/US)
- 17:00 The clinical results of the dynamic locking blade plate in the fixation of undisplaced
OS2-09 and displaced femoral neck fractures
Ariaan van Walsum (Enschede/NL), W. Roerdink (Deventer/NL)
J. Vroemen (Breda/NL), H. Janzing (Venlo/NL), T. Winkelhorst (Nijmegen/NL)
- 17:10 Blade type nail designs cause more varus collapse than screw type nails in the
OS2-10 treatment of elderly trochanteric fractures
Mustafa Caner Okkaoglu, H. Sesen, I. Demirkale, M. Ozdemir, Y. Okkaoglu
M. Altay (Ankara/TR)

Scientific programme • Thursday, 22 September

- 17:20
OS2-11 Subtrochanteric femoral fractures treated with the Long Gamma3®nail: a historical control case study versus Long trochanteric Gammanail®
D. Georgiannos, Matthaios Savvidis, V. Lampridis, I. Bisbinas, D. Kapoutsis
A. Konstandinidis, G. Gkouvas (Thessaloniki/GR)
- 17:30
OS2-12 Rotation instability and micro-movements are independent prognosis factors for the failure rate of dislocated medial femoral neck fractures
Alfonso Alias-Petralanda (Aschaffenburg/DE)
- 17:40
OS2-13 Cut out rates in trochanteric fracture nailing can be reduced by the I-Beam profile of the femoral neck component of the gliding nail (GN)
Tim Arnold, W. Friedl (Aschaffenburg/DE)
- 17:50
OS2-14 Nonunion and unplanned reoperation rates in adult proximal femoral fracture: a meta-analysis
Riikka Nomides (Durham, NC/US), R. D. Zura (New Orleans, LA/US)
R. G. Steen (Durham, NC/US)
- 18:00
OS2-15 Lateral cortical notching in specific cases of delayed unions or nonunions after intertrochanteric and reversed fractures
Roland Biber, H. J. Bail, H.-W. Stedtfeld (Nuremberg/DE)
- 18:10
OS2-16 Risk factors for cut-out of double lag screw fixation in proximal femoral fractures
K. Buyukdogan, Omur Caglar, S. Isik, C. Aksoy, M. Tokgozoglu, B. Attila (Ankara/TR)
- 18:20
OS2-17 Liss plate versus intramedullary nail for femur shaft fractures with polytrauma
K. Durak, Gokay Eken, A. Durak (Bursa/TR)

- 18:30–19:30 **Guided poster session**
Room Foyer Cranach-Saal
Chairs Peter Hinz (Greifswald/DE) (P01–P14)
Ulrich Göhring (Aschaffenburg/DE) (P15–P29)
- P01 Functional analyses after tibial shaft fracture
J. Lackner, R. Pätzold, I. Kröger, A. Brand, I. Klöpfer-Krämer, Peter Augat (Murnau/DE)
- P02 Evaluation of stress distribution on proximal locking screw position in new designed proximal femoral nail (MNP) using optimised finite element analysis
Mehmet Nuri Konya, O. Verim (Afyonkarahisar/TR)
- P03 Femoral insufficiency fractures related to long term bi-phosphonate use and femoral deformity – three cases
Mehmet Akdemir, A. Ç. Biçen, A. C. Turan, M. A. Türken, A. Alper, A. Ekin (Izmir/TR)
- P04 Is the tip apex distance a predictor of failure in intertrochanteric hip fractures treated with proximal femoral nail?
Kemal Kayaokay, N. Ozkayin, M. C. Sozbilen, B. Ozcanyuz, J. Mirzazade K. Aktuglu (Izmir/TR)
- P05 Accuracy of distal long femur nail locking with different techniques
Vecihi Kirdemir, Ö. Başal, T. Atay, Y. B. Baykal (Isparta/TR)
- P06 Bundle nailing in proximal fractures of the humerus in the osteoporotic elderly
Hendrik Jansen, M. Jordan, F. Gilbert, R. H. Meffert (Würzburg/DE)
- P07 Distal radio-ulnar joint inclination affects postoperative functional result after ulnar shortening osteotomy, a retrospective cohort analysis
Fabian Gilbert, R. H. Meffert, M. Jakubietz, J. Erdmann, R. Jakubietz (Würzburg/DE)
- P08 Osteosynthesis in metastatic bone lesions of limbs
Volodymyr Protsenko, O. Ilnitskyi, V. Chorneyi (Kiev/UA)
- P09 The anterior intrapelvic approach to the acetabulum
D. Seligson, Ken MacKinlay, B. Houseman (Louisville, KY/US)

- P10 Posterior bridging osteosynthesis for traumatic sacroiliac joint dislocation: a report of seven cases
Etienne Hoffmann (Osny/FR)
- P11 Outcome of surgical treatment of posterior wall and posterior column fractures of acetabulum
Adam Mahendra Teja, R. C. Banshiwal, M. K. Yadav (Jaipur/IN)
- P12 The preferred orientation for screw fixation of the calcaneal tuberosity
D. Seligson, Sam Gracey (Louisville, KY/US)
- P13 The use of collagen tripeptide, chitosan and hyaluronic acid based hydrogel for posterolateral lumbar spine fusion
Serhat Gafur Karaca (Istanbul/TR), S. Patir (Frankfurt a. M./DE)
- P14 Posterolateral spinal fusion with collagen tripeptide based hydrogel
Serhat Gafur Karaca (Istanbul/TR), S. Patir (Frankfurt a. M./DE)
- P15 Periprosthetic fractures around the femoral stem-biologic decisions
Dian Enchev, M. Rashkov, A. Baltov, M. Markov, S. Assiov (Sofia/BG)
- P16 Should we still arthrodesis the knee after retrieving an infected knee prosthesis
Peter Reynders-Frederix, C. Reynders-Frederix (Brussels/BE)
- P17 Dislocation of knee prosthesis and treatment with Osteobridge™ arthrodesis system
Mehmet Akdemir, M. A. Türken, A. Arıkan, A. C. Turan, A. Ç. Biçen
A. Ekin (Izmir/TR)
- P18 The analysis of traffic accidents in Uludag University Medical Faculty Emergency Service between 2011–2013, Bursa
Vahide Aslıhan Durak, M. N. Ural, E. Bayraktar, M. S. Gürses, K. Durak
D. Durak (Bursa/TR)
- P19 Evaluation of efficacy and complications of chevron osteotomy with k-wire fixation for Hallux valgus correction
Muhammad Baig (Tralee/IE)

- P20 Implant removal – patients' expectations and surgeons' concerns
Anna Lena Drissner, T. Völler, T. Mittlmeier, R. Rotter, A. Wichelhaus
P Gierer (Rostock/DE)
- P21 Three-dimensional polymer coated 45S5-type bioactive glass scaffolds seeded with human mesenchymal stem cells show bone formation in-vivo
F. Westhauser, Matthäus Prokscha, C. Weis (Heidelberg/DE), W. Li (Erlangen/DE)
U. Kneser (Ludwigshafen/DE), H.-U. Kauczor, G. Schmidmaier (Heidelberg/DE)
A. R. Boccaccini (Erlangen/DE), A. Moghaddam (Heidelberg/DE)
- P22 Treatment of bone and soft tissue infections and sepsis due to war injuries including polytrauma
Mehmet Akdemir, A. Erbay, A. C.Turan, M. A. Türken, A. Arkan
A. Ç. Biçen, A. Ekin (Izmir/TR)
- P23 Comparison of the reliability of three methods for the assessment of the lower limb length – eos with new micro-dose protocol vs. long-standing radiograph vs. CT scanogram
Burak Abay, M. F. Erol, M. Kücükaya, B. Abay (Istanbul/TR)
- P24 Impact of medication use on fracture nonunion in human bones – analysis of a payer database of ~90.1 million patients
R. G. Steen, Z. Xiong, T. Einhorn, J. T. Watson, M. J. Prayson, G. J. Della Rocca
T. McKinley, S. Mehta, Z. Wang, Robert D. Zura (New Orleans, LA/US)
- P25 Assessment of low-intensity pulsed ultrasound on fracture healing as used in a Level -1 trauma centre
Adanna Welch-Phillips, C. Kennedy, J. Harty, M. Athar (Cork/GB)
- P26 The effectiveness of transforaminal versus caudal routes for epidural steroid injections in managing lumbosacral radicular pain – a systematic review and meta-analysis
Jun Liu, H. Zhou, L. Lu, S. Feng (Tianjin/CN)
- P27 Alcohol involvement in traumatic fatal injuries
Vahide Aslıhan Durak, M. Kocaman, T. Aydogan, D. Durak (Bursa/TR)

Scientific programme • Thursday, 22 September

- P28 Is Fetuin-A serum concentration a predictor of long-term outcome after proximal femur fracture in osteoporotic patients?
Philipp Herlyn, C. Steffen, N. Cornelius, T. Mittlmeier, D.-C. Fischer (Rostock/DE)
- P29 MMP-8 and MMP-9 serum levels as possible early markers for remission after traumatic spinal cord injury
Raban Heller, V. Daniel, T. Swing, M. Akbar, H. J. Gerner (Heidelberg/DE)
B. Biglari (Ludwigshafen/DE), A. Moghaddam (Heidelberg/DE)
- 19:30 [Welcome reception](#)
Room Industrial exhibition

08:30–10:30	Session III – Nail vs. plate vs. prosthesis: humerus
Room	Cranach-Saal
Chairs	Axel Ekkernkamp (Berlin/DE) Martin Kloub (Ceske Budejovice/CZ)
08:30	Proximal humerus and shaft fractures
IL06	Martin Kloub (Ceske Budejovice/CZ)
08:45	Distal humerus fractures
IL07	Nikolai Spranger (Berlin/DE)
09:00	Treatment of proximal humeral fractures in Germany – a representative survey
OS3–18	<u>Tobias Harnob</u> (Kempten/DE), M. Weigl, U. Schreiber (Munich/DE) G. Täger (Kempten/DE), A. Lenich (Munich/DE)
09:10	Proximal humeral fractures – mechanisms of failure and trouble-shooting
OS3–19	Rüdiger Haase (Berlin/DE)
09:20	Is it safe to assist proximal humeral nailing to residents? – an analysis of 1134 cases
OS3–20	<u>Roland Biber</u> , B. Altintas, H. J. Bail (Nuremberg/DE)
09:30	Experimental examination of factors influencing the deformation cut out risk in locked nail osteosynthesis of proximal humerus fractures
OS3–21	<u>Stefan Fleckenstein</u> , W. Friedl (Aschaffenburg/DE), M. Rinner (Aarau/CH)
09:40	Complication analysis of the Targon® PH nail
OS3–22	<u>Hermann Josef Bail</u> , B. Altintas, B. Zirngibl, M. Curschmann-Horter R. Biber (Nuremberg/DE)
09:50	Humeral head necrosis after proximal humeral nailing – What are the reasons for bad outcome?
OS3–23	<u>Hermann Josef Bail</u> , B. Zirngibl, R. Biber (Nuremberg/DE)
10:00	Intramedullary nail vs. dynamic compression plate in treating humeral shaft fractures
OS3–24	<u>Ciprian Bardas</u> , H. Benea, D. Oltean, M. Paiusan, R. Tomoaia, A. Bardas G. Tomoaia (Cluj-Napoca/RO)

Scientific programme • Friday, 23 September

- 10:10
OS3–25 Minimally invasive plate osteosynthesis by anterior approach – an alternation in distal humeral shaft fractures produced by arm wrestling
Paul-Dan Sîrbu, G. Berea, R. Asaftei, R. Tudor, R. Sova, A. Bodescu (Iasi/RO)
- 10:20
OS3–26 New multidirectional angular stable plate fixation in transcondylar humerus fractures – trochilus plate
Athanasios Terzis, W. Friedl (Aschaffenburg/DE)
- 10:30–11:00
Room **Coffee break**
Industrial exhibition
- 11:00–12:30
Room **Session IV – Nail vs. plate vs. prosthesis: wrist and forearm**
Chairs Cranach-Saal
 Kemal Durak (Izmir/TR)
 Jan Verbruggen (Maastricht/NL)
- 11:00
IL07 Radial head and forearm fractures
Levent Küçük (Izmir/TR)
- 11:15
IL08 Distal radius and distal ulna fractures
Jan Verbruggen (Maastricht/NL)
- 11:30
OS4–27 Classification, treatment and clinical results of the Monteggia like lesion in 28 patients
Lars Eden, D. Ziegler, H. Jansen, R. H. Meffert (Würzburg/DE)
- 11:40
OS4–28 Locking plates or locking internal nail in distal radius fractures – an experimental examination and phase I clinical study
Leonard Höchtl-Lee, W. Friedl (Aschaffenburg/DE)
- 11:50
OS4–29 Outcome of conservative versus volar locking plate osteosynthesis for unstable distal radius fractures – a comparative study
Adam Mahendra Teja, R. C. Banshiwal (Jaipur/IN)
- 12:00
OS4–30 Treatment of multifragmentation fractures of the distal extremity of the radius with dorsal displacement (C type)
Bogdan Gogulescu (Galati/RO)

- 12:10 OS4-31 The Amsterdam wrist rules, an implementation study
Marjolein Mulders (Amsterdam/NL), M. Walenkamp (Rotterdam/NL)
 J. C. Goslings (Amsterdam/NL), N. Schep (Rotterdam/NL)
- 12:20 OS4-32 Long-term functional outcomes after corrective osteotomy of distal radius malunions
Marjolein Mulders, P. d'Ailly (Amsterdam/NL), B. Cleffken, N. Schep (Rotterdam/NL)
- 12:30–14:30 **Lunch break**
 Room Industrial exhibition
- 13:00–14:00 **Corporate workshop**
 (for details see p. 24)
 Room Tagungscenter (2nd floor)
- 14:30–16:00 **Session V – Nail vs. plate vs. prosthesis: distal lower leg, pilon and ankle fractures**
 Room Cranach-Saal
 Chairs Wilhelm Friedl (Aschaffenburg/DE)
 Paul-Dan Sîrbu (Iasi/RO)
- 14:30 IL09 Ankle, pilon and distal lower leg fractures
 Wilhelm Friedl (Aschaffenburg/DE)
- 14:50 OS5-33 Surgical treatment of distal tibia fractures with intra-medullary nail
 C. Faur, B. Anglitoiu, M. Oprea, D. V. Poenaru, Dinu Vermesan (Timisoara/RO)
- 15:00 OS5-34 Comparison of plate versus intra-medullary nail fixation for distal tibia fractures without articular involvement
Murat Celal Sozbilen, G. Hatami, K. Kayaokay, O. Suer, N. Ozkayin
 K. Aktuglu (Izmir/TR)
- 15:10 OS5-35 Biomechanical analysis of three fixation methods in treatment of pilon fractures AO 43-C3
 B. Puha, T. S. Gheorghievici, E. Carata (Iasi/RO), W. Friedl (Aschaffenburg/DE)
 S. Rares, Paul-Dan Sîrbu (Iasi/RO)
- 15:20 OS5-36 Complications associated with lateral malleolus plate fixation in ankle fractures
Dinu Vermesan, R. Prejbeanu, H. Haragus, D. V. Poenaru (Timisoara/RO)

Scientific programme • Friday, 23 September

- 15:30
OS5-37 Interlocking nailing in intraarticular calcaneal fractures – a biomechanical cadaver study of two different interlocking nails vs. an interlocking plate
Thomas Mittlmeier, S. Reinhardt (Rostock/DE), B. Ulmar (Ulm/DE)
H. Martin (Rostock/DE), M. Richter (Schwarzenbruck/DE)
M. Pompach (Pardubice/CZ), S. Döbele (Tübingen/DE), H. Zwipp
S. Rammelt (Dresden/DE)
- 15:40
OS5-38 A new minimally-invasive applied locking nail for displaced intraarticular calcaneal fractures-results after 1 year
Anica Eschler, A. Brakelmann, T. Mittlmeier (Rostock/DE), G. Gradl (Munich/DE)
- 15:50
OS5-39 Percutaneous stable fixation of V-Metatarsal avulsion and Jones fractures
Tim Arnold, W. Friedl (Aschaffenburg/DE)
- 16:00–16:30
Room **Coffee break**
Industrial exhibition
- 16:00–16:30
Room **Corporate workshop**
(for details see p. 24)
Tagungscenter (2nd floor)
- 16:30–18:30
Room **Session VI – Nail vs. plate vs. prosthesis: patella, olecranon, proximal**
Chairs **metatarsus V, shoulder girdle and peri-implant fractures**
Cranach-Saal
Volker Bühren (Murnau/DE)
Pol Rommens (Mainz/DE)
- 16:30
IL10 Overview lecture – patella fractures
Volker Bühren (Murnau/DE)
- 16:45
IL11 Overview lecture – olecranon fractures
Pol Rommens (Mainz/DE)
- 17:00
OS6-40 Olecranon osteotomy – stable compression with the XS nail osteosynthesis
Ulrich Göhring, W. Friedl (Aschaffenburg/DE)
- 17:10
OS6-41 XS nail osteosynthesis – fifteen years of experience with fractures of the
olecranon and proximal ulna
Ulrich Göhring, W. Friedl (Aschaffenburg/DE)
- 17:20
OS6-42 Tension fractures of the patella – long term results of the XS nail
Leonard Höchtl-Lee, W. Friedl (Aschaffenburg/DE)

- 17:30
OS6-43 Floating shoulder or floating shoulder girdle
Asen Baltov, M. Rashkov, D. Enchev (Sofia/BG)
- 17:40
OS6-44 Outcome after revision surgery of aseptic clavicle non-union
Christian von Räden, J. Friederichs (Murnau/DE), M. Morgenstern (Basel/CH)
P. Augat, S. Hackl, A. Woltmann, V. Bühren (Murnau/DE), C. Hierholzer (Zürich/CH)
- 17:50
OS6-45 Isolated, overlooked, traumatic, symptomatic scapular spine fractures
U. Kanatlı, Tacettin Ayanoğlu, M. B. Ataoğlu (Ankara/TR), M. Ozer (Konya/TR)
M. Çetinkaya (Ankara/TR)
- 18:00
OS6-46 Filipov's method of biplane double-supported screw fixation extremely reduces the risk of fixation failure in femoral neck fractures – clinical outcomes in 207 patients
Orlin Filipov (Sofia/BG), B. Gueorguiev (Davos/CH), K. Stoffel (Basel/CH)
C. Sommer (Chur/CH)
- 18:10
OS6-47 Peri-implant femoral fractures – the risk is more than three times higher within PFN compared with DHS
Franz Müller, M. Galler, B. Füchtmeier (Regensburg/DE)
- 18:20
OS6-48 Periimplant femur fractures after short hip nailing – the impact of non-locked nails
Jiri Skala-Rosenbaum, V. Dzupa, P. Dousa, R. Bartoska (Prague/CZ)
- 18:30–19:30
Room [Assembly of members of the Gerhard Küntscher Society](#)
Cranach-Saal
- 19:30
[Gala dinner](#)
for details see p. 26

Scientific programme • Saturday, 24 September

09:30–11:00	Session VII – Today's place of ExFix fracture management in primary care, definitive treatment and complication management
Room	Cranach-Saal
Chairs	Dietmar Pennig (Cologne/DE) Peter H. Thaller (Munich/DE)
09:30 IL12	Today's place of ExFix fracture management in primary care, definitive treatment and complication management in a developed health care environment Dietmar Pennig (Cologne/DE)
09:45 IL13	Today's place of ExFix fracture management in primary care, definitive treatment and complication management in a developing health care environment Paul-Dan Sîrbu (Iasi/RO)
10:00 OS7-49	Indication and techniques of distal radius fixation with plate, nail and ExFix <u>Georg Gradl</u> (Munich/DE), N. Mielsch, M. Wendt, S. Falk, T. Mittlmeier P. Gierer (Rostock/DE), G. Gradl (Aachen/DE)
10:10 OS7-50	Minimal-invasive treatment of adolescent proximal fractures of the tibia by external fixation <u>Hendrik Jansen</u> , K. Fehske, M. Jordan, R. H. Meffert (Würzburg/DE)
10:20 OS7-51	Software-based Ortho-SUV frame in children long-bone deformities correction: analysis of 162 cases <u>Victor Vilensky</u> , A. Pozdeev, E. Zakharyan (St. Petersburg/RU)
10:30 OS7-52	Treatment of femur osteomyelitis with shortening in tree steps and usage of both external fixators and internal fixator <u>Mehmet Akdemir</u> , M. A. Türken, A. Arıkan, A. Erbay, A. C. Turan, A. Ç. Biçen A. Ekin (Izmir/TR)
10:40 OS7-53	Multiplanar external fixation in tibia open fractures (by using a couple of external fixators) Bogdan Gogulescu (Galati/RO)
10:50 OS7-54	The special entity – implant-associated, chronic, destructive osteomyelitis of the humerus – complex therapy options and outcome Thomas von Stein (Murnau/DE)
11:00–11:30 Room	Coffee break Industrial exhibition

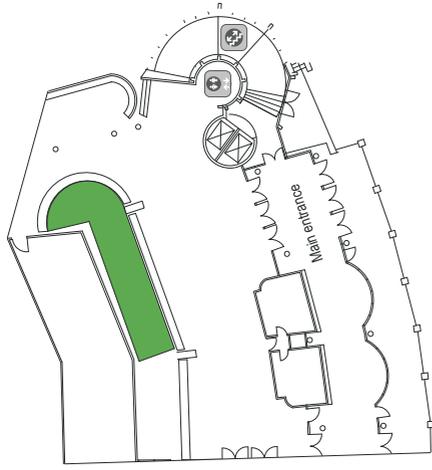
11:30–13:30	Session VIII – Complication management after infection and pseudarthrosis
Room	Cranach-Saal
Chairs	Florin Ramadani (Wels/AT) Peter H. Thaller (Munich/DE)
11:30	Complication management after infection
IL14	Florin Ramadani (Wels/AT)
11:45	Complication management after pseudarthrosis
IL15	Volker Alt (Giessen/DE)
12:00	Use of Masquelet technique in treatment of septic and atrophic non-union
OS8-55	<u>Arash Moghaddam</u> , C. Ermisch, G. Schmidmaier (Heidelberg/DE)
12:10	The epidemiology of fracture nonunion in 18 human bones – analysis of a payer database of ~90.1 million patients
OS8-56	<u>Robert D. Zura</u> , Z. Xiong, T. Einhorn, J. T. Watson, R. F. Ostrum, M. J. Prayson G. J. Della Rocca, S. Mehta, T. McKinley, Z. Wang, R. G. Steen (New Orleans, LA/US)
12:20	Deformity correction and intramedullary nailing – indications and limits
OS8-57	<u>Florian Wolf</u> , J. Fürmetz, T. Eilers, P.H. Thaller (Munich/DE)
12:30	Bone transport for bone defects – how to face the big gap
OS8-58	<u>Florian Wolf</u> , P.H. Thaller, J. Fürmetz (Munich/DE)
12:40	Predictors of non-union and infectious complications in patients with post-traumatic subtalar arthrodesis
OS8-59	<u>Siem Dingemans</u> , M. Backes, J. C. Goslings, V. de Jong, J. Luitse T. Schepers (Amsterdam/NL)
12:50	Avoiding cardiovascular complications of cement – cementless hemiarthroplasty for femur neck fractures – a fall-control study to evaluate intraoperative cardiorespiratory changes due to cement use
OS8-60	<u>Athanasios Terzis</u> , W. Friedl (Aschaffenburg/DE)
13:00	Dead space management in intramedullary infections
OS8-61	<u>Florian Wolf</u> , J. Fürmetz, S. Patzler, P.H. Thaller (Munich/DE)

Scientific programme • Saturday, 24 September

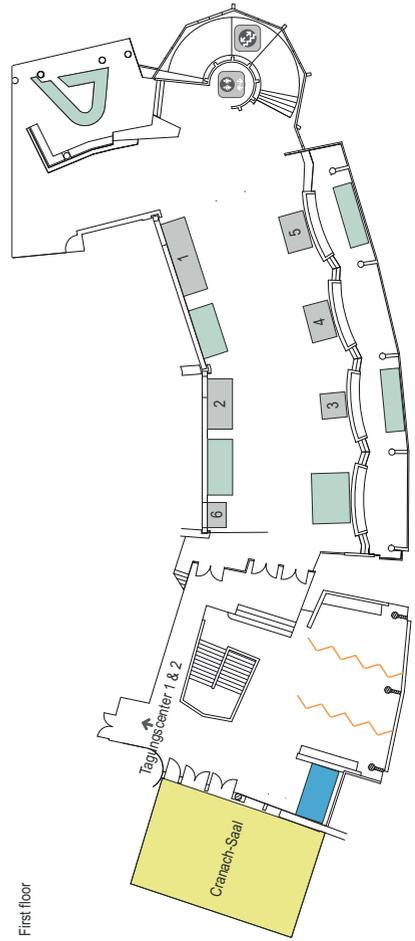
- 13:10 OS8-62 The results of bone grafting in the management of poor regenerate formation during lengthening with lengthening nails
Mehmet Fatih Erol (Tekirdag/TR), B. Abay (Istanbul/TR), O. Karakoyun (Tekirdag/TR)
M. Kücükaya (Istanbul/TR)
- 13:20 OS8-63 The importance of reaming the posterior femoral cortex before inserting lengthening nails and calculation of the amount of reaming
Metin Kücükaya (Istanbul/TR), O. Karakoyun, M. F. Erol (Tekirdag/TR)
- 13:30 OS8-64 The use of plastic fasteners for intramedullary nailing
David Seligson (Louisville, KY/US)
- 13:40 OS8-65 Buprenorphine/Naloxone for maintenance opioid therapy
David Easley, W. Lattice (Louisville, KY/US)
- 13:50–14:20 [Closing ceremony](#)

Ground floor

- Legend
- Check-in/Quick check-in
 - Industrial exhibition
 - Foods & beverages
 - Plenary hall
 - Media check-in
 - Poster exhibition



First floor



State at printing

Corporate workshops • Exhibitors

Friday, 23 September

13:00–14:00 Corporate workshop – INTERCUS GmbH



The Gliding Nail (GN) – an universal implant with rotation stability and minimised cut out risk

Room Tagungscenter (2nd floor)

Speaker Ulrich Göhring, Tim Arnold (Aschaffenburg/DE)

Fee free of charge, but registration required (limited number of participants)

16:00–16:30 Corporate workshop – OT Medizintechnik GmbH



PolyAxNail® AA – a polyaxial and angle stable Ankle Arthrodesis Nail; FarEnd Targeting an easy to use and X-Ray reduced targeting to set the distant screws

Gefördert durch:



aufgrund eines Beschlusses des Deutschen Bundestages



Room Tagungscenter (2nd floor)

Speaker Andreas Lenich (Munich/DE)

Fee free of charge, but registration required (limited number of participants)

Exhibitors (numerical)

Booth number

INTERCUS GmbH (Bad Blankenburg/DE)

1

ImplanTec Deutschland GmbH (Lüdinghausen/DE)

2

OPED GmbH (Valley/DE)

3

Königsee Implantate GmbH (Allendorf/DE)

4

Smith & Nephew GmbH (Hamburg/DE)

5

OT Medizintechnik GmbH (Munich/DE)

6

Funding

The Osteosynthese International 2016 is generously supported by the DFG – Deutsche Forschungsgemeinschaft (Bonn/DE).



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We would like to thank the following companies for their support:

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State at printing

Social and cultural programme

Social programme

Welcome reception • Thursday, 22 September

The organiser welcomes all registered participants of the congress in the industrial exhibition area. Meet your colleagues and other participants by fresh drinks and snacks right after the poster session.

Time	19:30 h
Location	Industrial exhibition
Fee	included for participants

Gala dinner • Friday, 23 September

We invite you join the gala dinner and to enjoy a pleasant evening with a tasty dinner in the charming atmosphere of the historic Ridingsaal in the castle of Aschaffenburg.

Time	19:30 h
Location	Ridingsaal • Schloss Johannisburg, Aschaffenburg/DE
Fee	30 EUR

Cultural programme*

Discovering the south • Thursday, 22 September

Discover the “southern flair” of Aschaffenburg on this guided tour through the town:

- history of the Pompejanum
- mediterranean castle garden and its treasures
- history of the castle
- Aschaffenburg’s old town
- Theatre Square with sundial

Time	10:00–11:30 h
Meeting point	Check-in desk (ground floor)
Fee	11 EUR
minimum number of participants	10

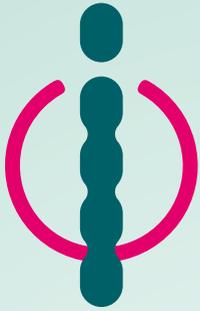
Moi Ascheberg – walk through the old town • Friday, 23 September

Picturesque corners of the historic old town are waiting to be discovered by you:

- getting to know the old town
- history of the castle
- stories of the Archbishops and Electors of Mainz
- the canons and the “heart” of Aschaffenburg

Time	13:00–14:00 h
Meeting point	Check-in desk (ground floor)
Fee	9 EUR
minimum number of participants	10

* A registration is required. Please also note that the tours may be cancelled due to non-achievement of minimum number of participants.



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with a 20 year
clinical history“*



GN GLIDING NAIL
proximal femoral nail

General information

Registration

Registration for the congress is required. Please register online at www.osteosynthese2016.de.

Registration fees

Full congress

Members**

Non-members

Members ESTES**

Residents*

Students/Physiotherapists*

Gala dinner

300 EUR

350 EUR

315 EUR

150 EUR

100 EUR

30 EUR

* Please provide proof of status via fax +49 3641 31 16-244 or e-mail registration@conventus.de and quote GKS 2016.

** Please provide a proof of membership via fax +49 3641 31 16-244 or e-mail and quote GKS 2016.

The registration fees include:

- Admission to all scientific sessions and access to our industrial exhibition
- Opening ceremony
- Welcome reception
- Congress materials (congress bag, final programme, name badge)

General terms and conditions

Please find our general terms and conditions at www.osteosynthese2016.de.

Did you know?

**Conventus is the Professional Congress Organiser
of the Osteosynthese International 2016***

* Annual Meeting of the Gerhard Küntschler Society

conventus
CONGRESSMANAGEMENT

Travel

By car

Easy accessibility via A3 Frankfurt/Würzburg as well as A45 from direction Dortmund/Hanau. The Stadthalle is located in the city center of Aschaffenburg and only 5 minutes from the highway exits.

Address for navigation system

Stadthalle am Schloss Aschaffenburg
Schloßplatz 1 • 63739 Aschaffenburg/DE

Parking

The location offers parking spaces in the underground car park. Please use the underground car park "Stadthalle" (entrance gate via Treibgasse) or the adjacent underground car park "Luitpoldstraße". You can get a congress parking ticket at the check-in desk on ground floor.

The ticket entitles you to exit and enter the underground car park during the validity of the parking ticket.
Fee 6 EUR per 24 hrs

By plane

Frankfurt International Airport is only 50 km from Aschaffenburg. You can reach Aschaffenburg in approx. 40 minutes by train or car.

Airport Pick-up service

For a stress-free travel from Frankfurt Airport to Aschaffenburg, you can order an airport pick-up service. Please contact the company below at the latest 1 day before your scheduled arrival by stating your flight number. Further information will be provided by Metropolis Taxi.

Metropolis Taxi

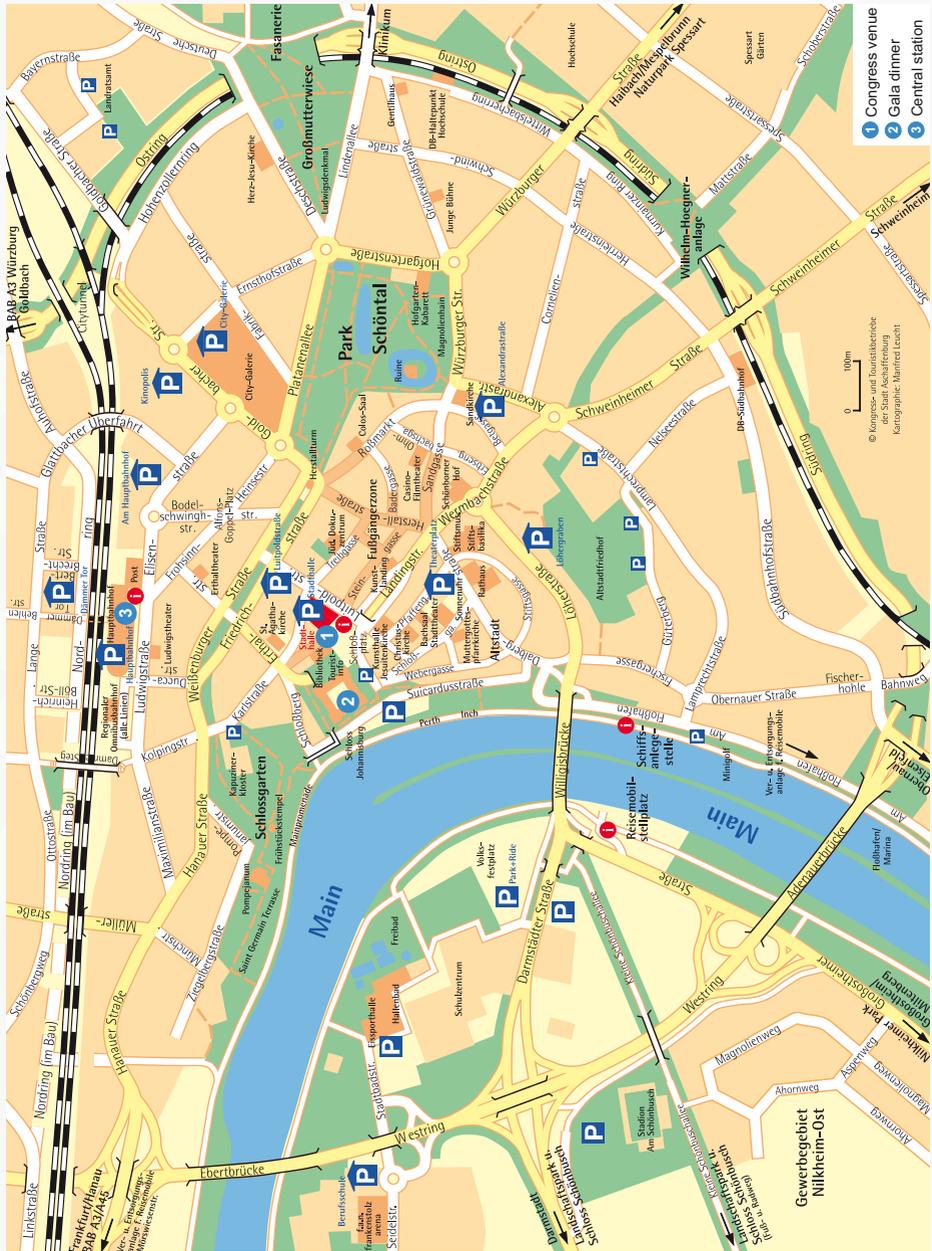
Werftstraße 1 • 63741 Aschaffenburg/DE
Phone +49 6021 41 77 41

By train

Aschaffenburg central station is located in the city center of Aschaffenburg. Your journey from the central station to the venue will take approximately 10 minutes by foot.

General information

City map



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Gerhard Küntscher Society
Annual Meeting



**Osteosynthese
International 2017**

osteosynthese2017.de



SAVE THE DATE

13-15 SEPTEMBER 2017

MUNICH

General information

Congress language

The congress language is English.

Certification

... for participants from Germany

The Osteosynthese International 2016 has been accredited with 18 CME credits by the Medical Chamber of Bavaria. For certification you must provide proof of attendance. Therefore, please sign and add your bar code to the list at the check-in desk on-site every day at the congress.

... for participants from Austria and from Switzerland

The assigned points of certification by the Medical Chamber of Bavaria will be accepted by your authorised Medical Chamber.

... for participants from other countries

The Osteosynthese International 2016 has applied for certification (ECMEC points) at the European Accreditation Council for Continuing Medical Education (EACCME). The EACCME is an institution of the European Union of Medical Specialists (UEMS), www.uems.net.

Proof of attendance

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General certificate of attendance

Certificates of attendance will first be made available on the last day of the congress at the check-in desk.

Name badge

Please wear your name badge during all congress events, including the networking activities. Admission to scientific sessions and to the industrial exhibition is restricted to participants wearing their badge. Participants will receive their name badge at the check-in desk.

Check-in

The check-in desk is located on ground floor.

Opening hours

	Thursday	Friday	Saturday
Check-in	10:30–19:30 h	07:30–18:30 h	08:30–15:00 h
Media check-in	10:30–18:30 h	07:30–18:30 h	08:30–12:00 h
Industrial exhibition	12:30–22:00 h	08:30–18:30 h	09:00–12:00 h
Poster exhibition	10:30–20:00 h	12:00–18:30 h	09:00–13:30 h

Wardrobe

Hatstands can be found in the Cranach-Saal and will be free of charge. We assume no liability for loss or stolen items.

WiFi access

WiFi is available for free throughout the whole congress venue. Please ask at the check-in desk for the login data.

Submission of a presentation/Technical information

The presentation should be prepared as PDF, MS Office PowerPoint for Windows or key for Macintosh DVD in format 4:3.

A presentation notebook with a PDF reader and MS Office PowerPoint 2016 will be provided. The use of personal notebooks is possible upon agreement. However, it may interrupt the flow of the programme in the lecture hall. Please provide an adapter for VGA if necessary. To guarantee a smooth running programme please upload your presentation in due time – at least 2 hours before your presentation is due to start.

Presentation upload

The media check-in for uploading your presentation is located on 1st floor.

For submission, please use a USB flash drive, CD or DVD disc that is not protected by any software. Professional staff and equipment will be available for you to arrange and preview your presentation.

Time allocation

Please prepare your presentation for the allotted amount of time. Chairs and moderators may interrupt should you overrun your time limit.

Allotted time is assigned as follows (speaking + discussion time):

Oral presentation 8+2 minutes

Poster presentation 3+2 minutes

Poster session

The posters will be presented during a guided poster session which is scheduled on Thursday, 22 September from 18:30–19:30 h. Therefore, we kindly ask you to be present at your poster during the poster session, for presentation, discussion and questions.

Please prepare your poster in English in accordance to format DIN A0 (84.1 cm x 118.9 cm) and of vertical format. Pins will be provided on your poster board. Please do not use any other type of pins than those provided. All poster boards will be labelled with a poster number. You can find your poster number in the programme book.

Please note that all posters should be hung by Thursday, 22 September by 18:00 h and be removed, at the latest, by Saturday, 24 September, 13:30 h. Posters that have not been removed by the said time will be considered as waste.

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Tiefer Weichteilretractor für Trauma/Wirbelsäule

Zur Maximierung der Darstellung mithilfe
von 90°-Armen und tiefen Weichteilhaken

Die Retraktorarme gibt es mit 7 oder 4 Zinken.



ARTIKELNUMMERN:

1862 [4 Zinken]
Gesamtlänge: 19,1 cm
Länge Griff bis Winkelung: 15,2 cm
Tiefe ab Biegung: 8,3cm
Zinken: 38 cm x 1,9 cm

1863 [7 Zinken]
Gesamtlänge: 19,1 cm
Länge Griff bis Winkelung: 15,2 cm
Tiefe ab Biegung: 8,3cm
Zinken: 3,8 cm x 3,5 cm

EXKLUSIV
FÜR INNOMED IN
DEUTSCHLAND
HERGESTELLT

Fromm Femur- & Tibia-Dreiecksstützen

Entwickelt von S.E. Fromm, MD

Extra kleine Dreiecksstütze, entwickelt von S.E. Fromm, MD & Kenneth Merriman, MD

Zur Positionierung von Femur und Tibia für die
Knochennagelung, für rekonstruktive Eingriffe
und zur Frakturversorgung

ARTIKELNUMMERN:

2760-00 [3er-Set] Winkel: oben 30°, unten 2 x 75°

2760-01 Basis: 15,2 cm, Höhe: 27,9 cm

2760-02 Basis: 17,8 cm, Höhe: 35,6 cm

2760-03 Basis: 22,9 cm, Höhe: 40,7 cm

Separat erhältlich – nicht im Set enthalten:

2760-XS Basis 12,7 cm, Höhe: 21,6 cm

HERGESTELLT
IN DEN USA



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