

**14th congress of the  
International Society for  
Medical Shockwave Treatment**



**Kiel, Germany**

**June 9th - 11th 2011**

Atlantic Hotel Kiel

Raiffeisenstrasse 2

24103 Kiel

Deutschland – Germany

**Program**

Wednesday, June 8th, 2011

**15.00 – 17.00 Early registration  
at the Atlantic Hotel Kiel**

**16.00 – 19.00 Managing Board Meeting**

Thursday, June 9th, 2011

**as of 07.30 Registration**

**08.30 – 17.30 Industrial Exhibition**

**09.00 – 09.30 Opening Ceremony  
with Words of welcome:**

Prof. Dr. Ludger Gerdesmeyer,  
President of the ISMST

Vinzenz Auersperg,  
General Secretary of the ISMST

**09.30 – 10.40 Basic Research I**

Chairman: Rainer Mittermayr, John Furia

**09.30 – 09.40 (1) Potential Roles of Cavitation in  
Tissue Angiogenesis - Observations from  
Cavitation Monitoring during  
Shockwave Therapy**

(Michael Chang)

*Device and producing company:  
OssaTron (SanuWave)*

*D-Actor (Storz Medical AG Switzerland)*

**09.40 – 09.50 (2) Energy transmission  
with radial pressure waves**

(Pavel Novak)

*Device and producing company:  
Storz Medical AG Switzerland*

**09.50 – 10.00 (3) Investigation of the correlation  
between shockwave induced mechanical  
stress and biological response**

(Matias de la Fuente, Yifei Long, Marc Hein,  
Anna Röhl, Michael Becker, Klaus Radermacher)

*Device and producing company:  
Piezon 100 plus, Richard Wolf*

**10.00 – 10.10 (4) Shoulder Rotator Cuff Responses  
to Extracorporeal Shockwave Therapy  
(ESWT), Morphological and  
Immunohistochemical Analysis**

(Julian Andres Branes, Leonardo Guiloff,  
Leonardo Arellano, Manuel Branes)

*Device and producing company:  
Orthospec/Medispec*

*Storz Medical AG Switzerland*

**10.10 – 10.25 (5) Extracorporeal Shockwave Therapy minimizes necrosis and promotes tissue revascularization by stimulating angiogenesis in an ischemic epigastric flap model**

(Rainer Mittermayr, Joachim Hartinger, Alexandra Meini, Sabine Pfeiffer, Vlado Antonic, Alexander Stojadinovic, Wolfgang Schaden, Heinz Redl)

*Device and producing company:*

*orthowave 180C, mts*

**10.25 – 10.40 (6) Possible Working Mechanism of ESWT-Mechanotransduction**

(Wolfgang Schaden, Rainer Mittermayr)

**10.40 – 11.00 Discussion**

**11.00 – 11.30 Coffee break**

**11.30 – 12.15 ESWT for knee pathologies**

Chairman: Richard Thiele

**11.30 - 11.40 (7) TOPGAME study: In-depth analysis**

(Johannes Zwerver, Fred Hartgens, Evert Verhagen, Henk van der Worp, Inge van den Akker-Scheek, Ron Diercks)

*Device and producing company:*

*Piezowave, Richard Wolf GmbH*

**11.40 – 11.50 (8) The TOPSHOCK study: Effectiveness of radial Shockwave Therapy compared to focused Shockwave Therapy for treating patellar tendinopathy. Design of a randomised controlled trial**

(Henk van der Worp, Johannes Zwerver, Ron Diercks, Inge van den Akker -Scheek)

*Device and producing company:*

*Duolith SD1,*

*Storz Medical AG Switzerland*

**11.50 – 12.00 (9) Low Energy Extracorporeal Shock Therapy as a Treatment for Chronic Patellar Tendinopathy**

(John Patrick Furia, Jan Dirk Rompe, Angelo Cacchio, Nicola Maffulli)

*Device and producing company:*

*DolorClast, EMS*

**12.00 – 12.15 Discussion**

**12.15 – 14.00 Lunch at the congress hotel**

- 14.00 – 15.00 ESWT for foot pathologies**  
Chairman: Amol Saxena, Vinzenz Auersperg
- 14.00 – 14.10 (10) Focused ESWT is a new modality to treat accessory Navicular Problems**  
(Ayman Elwy Balabel, Faisal Al-Kandary, Sahar Othman)  
*Device and producing company:*  
*Piezoson 300, Wolf*
- 14.10 – 14.20 (11) Comparison of Focused ESWT with Radial ESWT in Treatment of Chronic Plantar Fasciopathy with Heel Spur**  
(Ayman Elwy Balabel, Faisal Al-Kandary)  
*Device and producing company:*  
*Piezoson 300, Wolf*  
*Swiss Dolorclast, EMS*
- 14.20 – 14.30 (12) ESWT in Chronic Proximal Plantar Fasciitis, 9 years of experience**  
(José Eid)  
*Device and producing company:*  
*Swiss Dolor Clast, EMS*  
*Epos Ultra, Dornier*
- 14.30 – 14.40 (13) Extracorporeal Pulsed-activated Therapy (“EPAT”) for Achilles Tendinopathy: A Prospective Study**  
(Amol Saxena, Sona Ramdath, Patrick O’Halloran, Ludger Gerdesmeyer, Hans Gollwitzer)  
*Device and producing company:*  
*Storz Medical AG Switzerland D-Actor 200*
- 14.40 – 14.50 (14) Evidence in plantar fasciitis treatment**  
(Vinzenz Auersperg)
- 14.50 – 15.00 Discussion**
- 15.00 – 15.30 Coffee break**
- 15.30 – 17.00 Basic Research II**  
Chairman:  
Maria Cristina D’Agostino, Manuel Branes
- 15.30 – 15.40 (15) Prospects of Shockwave Therapy application**  
(Boris Garilevich, Anton Rotov, Alexandr Levkovsky, Marina Garilevich)  
*Device and producing company:*  
*„Biostim“, Scientific Medical Company*  
*„Rumelit“*

**15.40 – 15.50 (16) High Energy Shock Waves and 5-Aminolevulinic Acid for Sonodynamic Therapy: Effects on SK-N-BE and SH-SY5Y Neuroblastoma Cell Lines**

(Roberto Frairia, Loredana Serpe, Roberto Canaparo, Gian Paolo Zara, Mario Eandi, Laura Berta)

*Device and producing company:*

*Piezoson 100, Richard Wolf*

**15.50 – 16.00 (17) Influence of Shockwave Therapy on Fibroblasts - Special Meaning for Skin Remodeling**

(Kerstin Neumann, Hans-Jürgen Duchstein, Helmut Neuland)

*Device and producing company:*

*Piezowave, Wolf GmbH;*

*Piezoson 100 plus, PiezoWave,*

*Richard Wolf;*

*Orthowave 180c CP-155,*

*Tissue Regeneration Technologies and MTS*

**16.00 – 16.10 (18) Recruitment of endothelial progenitor cells and functional improvement in chronic hind limb ischemia by extracorporeal Shockwave Therapy in rats**

(Can Tepeköylü, Feng-Shen Wang, Wolfgang Schaden, Michael Grimm, Ching-Jen Wang, Johannes Holfeld)

*Device and producing company:*

*Dermapace, Sanuwave*

**16.10 – 16.20 (19) New Insights into Morphology of Cardiac Tissue Regeneration after direct Epicardial Shockwave Treatment**

(Johannes Holfeld, Daniel Zimpfer, Can Tepeköylü, Anita Thomas, Patrick Paulus, Seyedhossein Aharinejad, Wolfgang Schaden, Michael Grimm)

*Device and producing company:*

*Cardiogold, CRT AG*

*(produced by MTS Europe GmbH)*

**16.20 – 16.30 (20) Bone morphogenetic protein-2 expression in spinal fusion masses enhanced by extracorporeal Shockwave Treatment: a rabbit experiment**

(Tao-Chen Lee, Ching-Jen Wang)

*Device and producing company:*

*OssaTron,*

*HMT High Medical Technologies GmbH*

**16.30 – 17.00 Discussion**

**17.00 – 18.00 AGM of the ISMST**

**19.00 ISMST Congress Dinner**

Pier Restaurant  
Atlantic Hotel Kiel  
Raiffeisenstraße 2  
24103 Kiel  
Phone: +49 (431) 374 99 562  
www.atlantic-hotels.de

Friday, June 10th, 2011

**as of 07.30 Registration**

**08.30 – 17.30 Industrial Exhibition**

**07.30 – 09.30 Instructional Course part 1**

**09.50 – 10.35 ESWT and Bone Pathologies I**

Chairman:  
Wolfgang Schaden, Paulo Kertzmann

**09.50 – 10.00 (21) Experience in the treatment of pseudoarthrosis by applying platelet-rich plasma in association with focused Shockwave stimulation**

(Paolo Buselli, L. Di Palma, R. Compagnoni, S. Messina, A. Branca)

*Device and producing company:*  
Ossatron OSA 140, HMT s.r.l.

**10.00 – 10.10 (22) ESWT in Treatment of Osteitis Pubis in Professional and Amateur Athletes**

(Ana Claudia Souza, Alexander Montenegro)

*Device and producing company:*  
REFLECTRON – HMT

**10.10 – 10.20 (23) ESWT for Osteonecrosis of femoral head – a retrospective study**

(Shrenik Shah)

*Device and producing company:*  
Stonelith-Israel, EPOS-Dornier

**10.20 – 10.35 Discussion**

**10.35 – 11.00 Coffee break**

**11.00 – 12.30 ESWT and Bone Pathologies II**

Chairman: Carlos Leal, Richard Coombs

**11.00 – 11.15 (24) Keynote lecture: Pseudarthrosis – treatment option and golden standard**

(Andres Seekamp)

- 11.15 – 11.25 (25) Shockwaves in hand & foot surgery - retrospective analysis of results with different devices**  
(Frank Bätje)  
Device and producing company:  
Storz Duolith SD1,  
Storz Medical AG Switzerland  
Modulith SLK
- 11.25 – 11.35 (26) ESWT in foot navicular stress fracture of a high performance**  
(Sergio Abello, Carlos Leal)  
*Device and producing company: OR  
THOGOLD 100 – TRT (USA)  
and MTS (Germany)*
- 11.35 – 11.45 (27) Extracorporeal Shockwave Therapy (ESWT) in the treatment of bone pseudoarthrosis: Verona experience**  
(Claudio Guerra, Ernesto Amelio)  
*Device and producing company:  
SLK, Storz Medical AG*
- 11.45 – 11.55 (28) Quality Control of ESWT in the treatment of Non-Union fractures**  
(Wolfgang Schaden, Andreas Fischer, Ender Karadas, Rainer Mittermayr)  
*Device and producing company:  
Ossatron, HMT, Orthowave 280, TRT and MTS*
- 11.55 – 12.05 (29) ESWT for Non-Union Fractures - Economic Aspects**  
(Wolfgang Schaden, Rainer Mittermayr, Ender Karada, Heinz Kuderna)  
*Device and producing company:  
Orthowave 280, TRT (USA)  
and MTS (Germany)*
- 12.05 – 12.15 (30) ESWT for Non-Union Fractures – Evidence Based Medicine**  
(Heinz Kuderna, Rainer Mittermayr, Wolfgang Schaden)  
*Device and producing company:  
Not applicable*
- 12.15 – 12.30 Discussion**
- 13:00 – 14.00 Press Conference**
- 12.30 – 14.00 Lunch at the congress hotel**

**14.00 – 15.30 ESWT and Pain Management**

Chairman:

Jan Dirk Rompe, Roberto Frairia, Markus Gleitz

**14.00 – 14.20 (31) Keynote lecture: Pain perception and mechanism of chronification in musculo-skeletal disorders**

(Ralf Baron)

**14.20 – 14.30 (32) Shockwave or Surgery – ESWT as an alternative to operative procedures in the treatment of musculoskeletal pain**

(Hannes Müller-Ehrenberg)

*Device and producing company:*

*Piezowave, WOLF*

**14.30 – 14.40 (33) Long term effectiveness of ESWT in reducing pain and improving function in patients suffering from somatic diseases**

(Raoul Saggini, Alexandra Di Stefano, Mario Valeri, Emanuela Panelli, Angela Marri, Valentina Galati, Laura Scarcello, Rosa Grazia Bellomo)

*Device and producing company:*

*Evo tron Electrohydraulic Spark Gap,*

*HMT, Kreuzlingen.*

**14.40 – 14.50 (34) Shockwaves in the treatment of paraosteoarthropathies: A case report on painful paraosteoarthropathy in a 3-year old girl**

(Sara Messina, Paolo Buselli, Vincenzo Bosco)

*Device and producing company:*

*Modulith SLK – Storz Medical AG Switzerland*

**14.50 – 15.00 (34) Low energy focused Shockwave Therapy of adductor related groin pain in football players**

(Laura Berta, Roberto Frairia, Marina Berta)

*Device and producing company:*

*Minilith SL1, Storz Medical AG Switzerland,*

*Tägerwilten, Switzerland*

**15.00 – 15.10 (35) ESWT for athletic injuries during competition**

(Paulo Kertzman, Mauro Moreira)

*Device and producing company:*

*Dolorclast, EMS*

**15.10 – 15.30 Discussion**

**15.30 – 16.00 Coffee break**



**16.00 – 17.30 ESWT and Skin Treatment**

Chairman:

Alexander Stojadinovic, Richard Thiele

**16.00 – 16.20 (37) Keynote lecture: Treatment of Chronic Wounds - State of the Art**

(Karsten Knobloch)

**16.20 – 16.30 (38) Shockwave Therapy for Lipodystrophy improvement**

(Olga Krikunova)

*Device and producing company:*

*Duolith, Storz Medical AG Switzerland*

**16.30 – 16.40 (39) Defocused ESWT for Chronic Skin Lesions - Treatment Interval Does Not Seem to Influence Healing Outcome**

(Rainer Mittermayr, M. Pusch, Ch. Schwab, W. Schaden)

*Device and producing company:*

*Dermagold, Activator, MTS/TRT*

**16.40 – 16.50 (40) Placebo controlled, prospectively randomized, double-blinded study for the investigation of the effectiveness and safety of acoustic wave therapy (AWT®) for cellulite treatment**

(Katharina Russe-Wilflingseder, Elisabeth Russe, Monika Drmic, Johannes C. Vester, Gerd Haller, Pavel Novak, Alexander Krotz)

*Device and producing company:*

*D-ACTOR® 200 by Storz Medical AG Switzerland*

**16.50 – 17.00 (41) Cellulite and Extracorporeal Shockwave Therapy (CelluShock-2009) - Randomized Trial**

(Karsten Knobloch, Beatrice Joest, Robert Krämer, Peter M. Vogt)

*Device and producing company:*

*Duolith, STOR*

**17.00 – 17.10 (42) Prospective Trials of ESWT for Soft Tissue Indications**

Alexander Stojadinovic, Christian Ottomann, Bernd Hartmann, (Richard Thiele, Philip T. Lavin, Wolfgang Schaden)

*Device and producing company:*

*OW180C DermaGold™, MTS Europe*

# ESWT

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- ▶ **DUOLITH® SD1**  
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- 17.10 – 17.20 Discussion**
- 17.30 – 18.15 Industrial Meetin**
- 18:30 Bording for Sea Site Cruise**  
Hotel Atlantic to the Royal Yacht Club Kiel
- 19.30 Ocean Site Evening**  
Royal Yacht Club Kiel  
Hindenburg Ufer 70  
24105 Kiel  
Tel.: +49 (431) 8813-0  
<http://www.hotel-kyc.de>

Saturday, June 11th, 2011

- as of 07.30 Registration**
- 08.30 – 17.30 Industrial Exhibition**
- 07.30 – 09.30 Instructional Course part 2**
- 10.00 – 11.20 ESWT for Shoulder pathologies**  
Chairman: Jörg Hausdorf, Jose Eid
- 10.00 – 10.20 (43) Keynote lecture: Standard of care for shoulder Impingement Surgery**  
(Markus Loew)
- 10.20 – 10.30 (44) Treatment of Frozen Shoulder with Focused ESWT**  
(Ayman Elwy Balabel, Fasial Al-Kandary, Sahar Othman)  
*Device and producing company:*  
*Piezoson 300, Wolf*
- 10.30 – 10.40 (45) The potential role of Shockwaves on shoulder tendons healing after surgery**  
(Sergio Russo, A. Cozzolino, E. Astarita, A. Petteruti, R. Russo)  
*Device and producing company:*  
*Duolith, Storz Medical AG Switzerland*
- 10.40 – 10.50 (46) Evidence and necessity of focus control in ESWT of calcifying Tendinopathies of the Shoulder**  
(Sergej Thiele, Richard Thiele)
- 10.50 - 11.05 (47) ESWT for calcifying tendonitis Evidence Based Medicine**  
(Ludger Gerdesmeyer)
- 11.05 – 11.20 Discussion**

**11.20 – 12.00 Coffee break**

**12.00 – 13.45 Miscellaneous**

Chairman:

Sergio Russo, Ana Claudia de Souza

**12.00 – 12.10 (48) Ultrasound Elastography, a Novel Method for the Diagnosis of Trigger Points and a Tool to Evaluate the the Efficacy of Shockwaves in the Treatment of Myofascial Pain Syndroms**

(Wolfgang Bauermeister)

*Device and producing company:*

*Swiss DoloClast, EMS; Piezason 100,*

*Wolf: ARIES, Dornier MedTech;*

*Ultrasonix Tablet, Ultrasonix*

**12.10 – 12.20 (49) Shockwave-acupuncture: A method with excellent results in arthritis and asthma treatment**

(Heinrich Everke)

*Device and producing company:*

*MP 50 - Storz Medical Company, Switzerland*

**12.20 – 12.30 (50) The use of computerized clinical files in Shockwave Therapy surgery: Our experience in Tortona**

(Maria Cristina Ottone, Francesca Maria Roldi)

*Device and producing company:*

*Piezason 300, Wolf*

**12.30 – 12.40 (51) A novel approach to ESWT for Achilles tendinopathy, guided and evaluated by means of Ultrasound Tissue Characterization (UTC)**

(Hans T. M. van Schie, Willem den Boer, Bert Verhoeven)

*Device and producing company:*

*ESWT: ActiVitor ACV02,*

*SwiTech Medical, 8280 Kreuzlingen,*

*Switzerland, UTC: UTC Imaging,*

*6171 GD Stein, the Netherlands*

**12.40 – 12.50 (52) safety and efficacy of ESWT in plantar heel pain – outcome of the STORZ FDA Study**

(Hans Gollwitzer, Amol Saxena, Louis Gally, Brian Fullem, Richard T. Bouché, David Caminear, Ludger Gerdesmeyer)

*Device and producing company:*

*Storz, Duolith*

**12.50 – 13.00 (53) The Importance of Total Energy Emitted in the Results of ESWT**

(Maria Cristina Ottone, Filippo Fagnani, Emanuela Maria Roldi)

*Device and producing company:*

*Piezoson 300, Wolf*

**13.00 – 13.10 (54) Effects of Extracorporeal Shockwave Therapy on Spasticity in Cerebral Palsy (CP): Our Experience (pilot study)**

(Maria Cristina d'Agostino, V. Gasparroni, A. M. Lopez Lopez, S. Respizzi, B. Bernardini, N. M. Portinaro)

*Device and producing company:*

*Orthowave, TRT (USA) and MTS (Germany)*

**13.10 – 3.20 (55) Effects of ESWT in Osteitis**

(Hans Gollwitzer)

*Device and producing company: n.a.*

**13.20 – 13.30 (56) Shockwave Treatment for Orthopaedic Infections**

(Richard Coombs, Moustafa Hafez, Milad Hanna, Nikki Horwood, Vipin Asopa)

*Device and producing company: n.a.*

**13.30 – 13.45 (57) Differentiation of mesenchymal stem cells by extracorporeal shock waves**

(Jörg Hausdorf, Susanne Mayer, Birte Sievers, Tolga Goeren, Volkmar Jansson)

*Device and producing company:*

*XL 1, Dornier*

**13.45 – 14.00 Discussion**

**14.00 – 14.30 Closing ceremony**

Closing addresses by  
Prof. Dr. Ludger Gerdesmeyer

Invitation to the 15th Congress of the ISMST in Cartagena, Colombia by the incoming president, Prof. Dr. Carlos Leal

# Notes

# 14th congress of the International Society for Medical Shockwave Treatment



## Contact Address:

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## Organized by:

- UKSH Medical University Schleswig Holstein
- SITOD (Societa' Italiana Terapia con Onde D'Urto)
- SFOCAL (Société Française pour les Ondes de Choc sur l'Appareil Locomoteur)
- DIGEST (Deutschsprachige Internationale Gesellschaft für Extrakorporale Stoßwellentherapie)
- AK-ESWT (Arbeitskreis ESWT der DGOOC)
- ONLAT (Sociedad Iberoamericana de Biocirurgia por Ondas de Choque)
- SBTOC (Sociedade Brasileira de Terapia por Ondas de Choques)
- sgst (Schweizerische Gesellschaft für Stoßwellen-Therapie)
- MedBaltic Orthopaedic surgery and Traumatology Group