

**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:
„Bioslim“, 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

Interdisciplinary Extracorporeal Shock Wave Therapy

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- ▶ **MASTERPULS® MP200**
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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



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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