



23rd World Congress of the International Society for Medical Shockwave Treatment



On-site Program November 04 – 05, 2021 | Austria





General Information

→ ORGANIZER

Austrian Workers' Compensation Board (AUVA) Head Office Vienna Twin Towers Wienerbergstrasse 11 1100 Vienna | Austria

→ SCIENTIFIC ORGANIZATION

Wolfgang Schaden, AUVA

President of the ISMST

Rainer Mittermayr, AUVA

Scientific Congress Secretary

→ INFORMATION AND ORGANIZATION

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→ REGISTRATION AND PAYMENT

Jennifer Konecky

Phone: +43 5 93 93-20193 congress@auva.at

→ CONGRESS LANGUAGE

The official congress language is English.

→ CONGRESS WEBSITE

https://www.shockwavetherapy.org

CONFERENCE VENUE

Hotel Savoyen Vienna

Rennweg 16 1030 Vienna | Austria Phone: +43 1 206 33-9109 savoyen@austria-trend.at

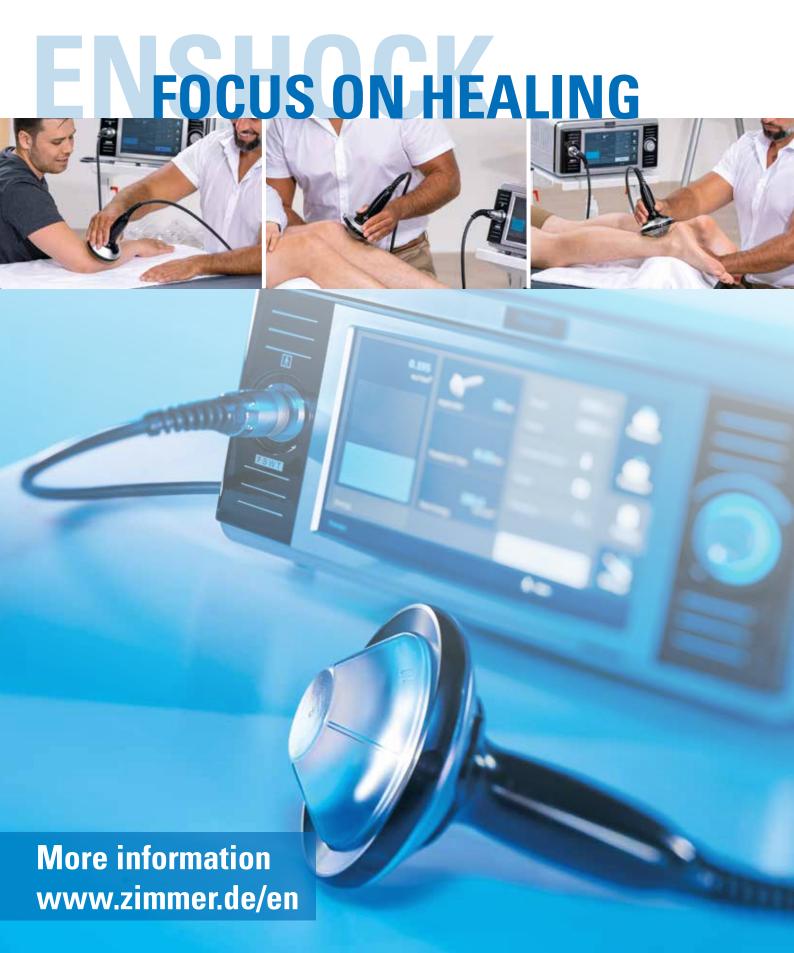
→ APPROBATION

For the event, Austrian DFP credits will be requested at the Austrian Medical Chamber. These credits are convertible for the respective country.

Welcome Letter of the President of the ISMST	3
Welcome Letter of the Scientific Congress Secretary	4
Main Topics	6
Scientific Committee	6
Program Overview	7
Detailed Scientific Program	9
List of Chairs	17
List of Speakers	17
Venue Plan	20
Social Events	21
General Information	<mark>23</mark>
Map of Public Transport	<mark>23</mark>







Welcome letter of the President of the ISMST

Dear Colleagues and Friends, dear Shockwave Family,

we all suffered under the terrible pandemic the last two years, but I hope that you and your families stayed healthy in these difficult times. Since several vaccines have now received their approval and the vaccination coverage rate is very high, especially in the medical professions, I am confident that our congress can take place as a "live event". We will go ahead with the preparations under the assumption that we are able to meet in person and celebrate our meeting with a personal exchange of experiences, as we have done over the last two decades.



I want to welcome you all personally to the 23rd International Congress in Vienna. Indeed, it was in Vienna that, on 14 June, 1997, our society was founded by a small group of physicians fascinated by this new technology that appeared to have such huge potential to help our patients without significant adverse side-effects or risks.

Right from the outset, we were keen to ensure that our society remained open-minded, welcoming new ideas, concepts and theories.

Most of our members were orthopaedic surgeons dealing with the 'classic' four indications: tennis elbow, heel spur, shoulder calcifications, and bone non-unions. Back then, shockwave treatment was regarded as some sort of 'voodoo therapy', so our first objective was to produce evidence to gain acceptance within the 'scientific community'. And it was a long and rocky road to obtain funding for the first clinical studies to perform randomized controlled trials. Once we had demonstrated the efficacy and safety of ESWT, we became more and more interested in the working mechanism of this wonderful tool. By then, our society was attracting extremely committed researchers keen to help us understand the mechanism that underlies shockwaves.

We developed a new understanding of the way shockwaves act on biological tissue: mechano-transduction describes the fact that shockwaves (mechanical impulses such as pressure, shear and tensile forces) are translated into biological signals that activate genes. Groups of genes then start to produce proteins (growth factors, etc.) which successfully trigger regenerative processes in pathological tissue. Even the body's own stem cells can be activated to regenerate the affected area under the influence of shockwaves.

Meanwhile, interest in shockwave technology is steadily growing and spreading all over the world. So much so that the ISMST society now comprises almost 400 members from 60 countries across all continents.

Thanks to our society's open-minded approach, we were able to broaden the scope of shockwave technology from the 'classic four' to practically all disciplines of medicine. Indeed, ESWT is now used for all kinds of tendon and bone pathologies, wound healing disorders, pathologies in urology and sexual medicine, neurological pathologies such as spasticity, polyneuropathy, carpal tunnel syndrome, M. Alzheimer and muscle pathologies.

Clinical trials are underway in thoracic surgery, applying shockwaves to the open heart to stimulate heart muscle regeneration and, for patients with acute spinal cord injuries, as a causal therapy to modulate initial inflammation and stimulate early nerve regeneration.

It is thanks solely to the passionate commitment of our society's members that this phenomenal development has been possible.

And so, as you prepare to travel to Vienna, I am certain that you can look forward to another exciting congress packed with all the latest insights into the fascinating field that is shockwave medicine.

Take care and stay healthy,

Wolfgang Schaden
President of the ISMST



Dear Colleagues and Friends, dear Shockwave Family,

It is my particular pleasure and honor as the Conference Secretary to welcome you in Vienna for the 23rd International Conference on Shockwave Therapy.

After a very long and demanding time in this pandemic with many hardships, I am convinced that our congress in November 2021 will be a very special event for all of us. Although technological progress already gives us the excellent possibility to exchange online, I believe that our society has always lived from the personal exchange.

It is already the second time that this unique society and its members come together in the center of Europe, in beautiful Vienna. Beyond, we feel proud that one of the founders of our society – Wolfgang Schaden – will host this conference.

Vienna is known for its cultural diversity and the peaceful living together of a multicultural community (190 nations) in an environment of the highest quality of life. In my opinion, these qualities are perfectly reflected also by our society making it more a family than an association. Vienna is named for the most livable city in the world already for the 10th time. Vienna is world-famous for its exceptional music and cultural diversity performed at historic places from the Musikverein to the renowned Kunsthistorisches Museum. At a walk through relaxing green spaces, parks and gardens you will pass by places of the magnificent imperial heritage like Schönbrunn Palace, Hofburg Palace, and Belvedere Palace, which is in the direct vicinity of our meeting venue, Hotel Savoyen.

At this inspiring place, we will experience a new program format, which we believe is in equal measure, innovative and exciting. We endeavored to organize sessions dedicated to different disciplines, also including previously under-recognized scopes of application (eg, urology and sexual medicine). We are convinced that this change will further expand our perception of shockwave treatment. Furthermore, we intend to have several keynote lectures per session, which will be given by world-leading experts.

We also have the pleasure to invite you to outstanding social events, which will give us the occasion to share our knowledge in pleasant surroundings, do networking, and to make personal contacts.

We hope for your numerous active and enthusiastic participation in this $23^{\rm rd}$ international congress of the ISMST.

I am looking forward to welcoming you all in Vienna and sharing with you the latest insights in shockwave medicine.

Rainer Mittermayr

Scientific Congress Secretary



As a reliable partner to physicians, we are shaping a piece of medical progress – in the service of new therapeutic procedures. The goal of our physicists and engineers is to further develop shock wave technology, to develop new device concepts and to open up new indications in close cooperation with leading medical institutes.

ESWT – Extracorporeal Shock Wave Therapy

The wide range of indications in orthopaedics, physiotherapy and rehabilitation medicine is ideally covered by STORZ MEDICAL with focused and radial shock wave therapy. This is precisely that makes the DUOLITH® SD1 »ultra« combined shock wave device and the radial MASTERPULS® line the most successful ESWT systems on the market today.

EMTT – Extracorporeal Magnetotransduction Therapy

EMTT with the MAGNETOLITH® is a non-invasive, outpatient treatment solution in which painful areas of the body are treated with high-energy magnetic pulses using a high oscillation frequency. EMTT opens up new possibilities in regeneration and rehabilitation.

Convince yourself and meet our products and product specialists in the ISMST industrial exhibition hall.





World Congress of the International Society for Medical Shockwave Treatment



MAIN TOPICS

- → ESWT in Sports Medicine
- Basic Research
- → 25+1 Years DIGEST
- **→** ESWT in Pain and Myofascial Treatment
- → Radial Pressure Waves in Physiotherapy and Professional Sports
- → ESWT in Urology and Sexual Medicine
- → ESWT in Neurological Pathologies
- ESWT in Disturbed Wound Healing
- → Recent Developments of ESWT in Orthopedics and Traumatology

SCIENTIFIC COMMITTEE

Cristina D'Agostino, Italy

José Ramón Aranzabal, Spain

Richard Crevenna, Austria

José Eid, Brasil

Ludger Gerdesmeyer, Germany

Irwin Goldstein, United States of America

David Hercher, Austria

Johannes Holfeld, Austria

Karsten Knobloch, Germany

Carlos Leal, Colombia

Daniel Moya, Argentina

Hannes Müller-Ehrenberg, Germany

Tomáš Nedělka, Czech Republic

Silvia Ramon (†), Spain

Jens Rassweiler, Germany

Martin Ringeisen, Germany

Sergej Thiele, Germany

WEDNESDAY, NOVEMBER 03, 2021

As of 15.00 **Registration**

19.00-22.00 Welcome Cocktail at the Hotel Savoyen | Foyer

THURSDAY, NOVEMBER 04, 2021

* VENUE Hotel Savoyen | room: Olympia Mancini 1 & 2 (Ground Floor)

As of 07.30 Congress Registration and Wake-up Coffee

08.30 **OPENING CEREMONY**

→ ESWT in Sports Medicine

Coffee Break

→ Basic Research

Lunch Break

→ 25+1 Years DIGEST

Coffee Break

- → ESWT in Pain and Myofascial Treatment
- Annual General Meeting

Bus transfer to

Networking Dinner at the Kunsthistorische Museum (Art Historical Museum)

FRIDAY, NOVEMBER 05, 2021

As of 07.30 Congress Registration and Wake-up Coffee

09.00 → Radial Pressure Waves in Physiotherapy and Professional Sports

Coffee Break

- → ESWT in Urology and Sexual Medicine
- **SET OF SET OF S**

Lunch Break/Industrial Meeting

→ ESWT in Disturbed Wound Healing

Coffee Break

→ Recent Developments of ESWT in Orthopedics and Traumatology

AWARDS AND CLOSING CEREMONY

Get-together at the "Salm-Bräu" Brewery





Everything from ONE source

AUVA (Allgemeine Unfallversicherungsanstalt - the Austrian Workers' Compensation Board) is the social insurance for occupational risks for more than 3.3 million employees and 1.4 million pupils and students. Its legal duties are: prevention of occupational accidents and diseases, occupational medical care, first aid for occupational accidents, post traumatic treatment, rehabilitation, financial compensation and research.

Detailed Scientific Program I Wednesday, November 03, 2021

As of 15.00 **Registration**

19.00-22.00 Welcome Cocktail at the Hotel Savoyen | Foyer

Detailed Scientific Program | Thursday, November 04, 2021

23rd WORLD CONGRESS OF THE ISMST



VENUE | Hotel Savoyen | room: Olympia Mancini 1 & 2 (Ground Floor)

Congress Registration and Wake-up Coffee As of 07.30

08.30-09.15 **OPENING CEREMONY**

WELCOME SPEECHES:

W. Schaden

President of the ISMST

R. Frank

Medical Director AUVA

H. Kuderna

Honorary President of the ISMST

Minute of Memory for Silvia Ramon (†)

"Direct Cardiac Shockwave Therapy - First Results From The CAST-HF Trial" J. Holfeld, Austria

1. ESWT in Sports Medicine

Moderator: C. Leal, Colombia

Chairs: L. Gerdesmeyer, Germany/K. Knobloch, Germany

KEYNOTE: Combining FSW & RPW in Patella Tendinopathy in Professional 09.15-09.25

German Bundesliga Soccer Players

K. Knobloch, Germany

KEYNOTE: Focused ESWT in ACL Injury in Alpine Skiing 09.25-09.35

J. Kim, South Korea

09.35-09.45 **KEYNOTE:** Combining ESWT & PRP in Athletes

C. Leal, Colombia

KEYNOTE: ESWT & Intraosseus PRP in Athletic Osteoarthritis 09.45-09.55

S. Sampson, United States of America

The Rationale and Therapeutic Effect of Extra-Corporeal Shockwave Therapy (ESWT) 09.55-10.02

on The Rotator Cuff Lesions with Shoulder Stiffness: a Prospective Randomized Study

<u>J. - Y. Ko</u>, K. - K. Siu, F. - S. Wang, C. - J. Wang, W. - Y. Chou, C. - C. Huang, S. - J. Kuo, Taiwan

Focused Type Extracorporeal Shockwave Therapy For Ischial Apophysitis 10.02-10.09

in Young Gymnasts

T. Omodani, K. Takahashi, Japan, United States of America

10.09-10.16 **Extracorporeal Shockwave Therapy For First Rib Stress Fracture**

T. Sugiyama, H. Murakami, K. Noguchi, K. Kawano, N. Shiba, Japan

10.30-11.00 **Coffee Break**

Detailed Scientific Program | Thursday, November 04, 2021

2. Basic Research Moderator: R. Mittermayr, Austria Chairs: C. D'Agostino, Italy/D. Hercher, Austria **KEYNOTE**: Basic Science Insights From Myocardial Biopsies of The CAST-HF Trial 11.00-11.15 J. Holfeld, Austria 11.15-11.30 **KEYNOTE:** A Systemic Approach to The Standardization of Pre-Clinical ESWT Research C. Slezak, United States of America 11.30-11.37 Effects of ESWT on Neuroregeneration After Median Nerve Reconstruction With Autologous Nerve Grafts or Three Different Conduits in The Rat <u>J. C. Heinzel,</u> C. Keibl, V. Oberhauser, G. Längle, H. Frick, B. Schädl, M. Sima, N. Swiadek, J. Ferguson, A. Teuschl, T. Hausner, J. Kolbenschlag, D. Hercher, Austria, Germany 11.37-11.44 Histomorphometric Analysis of Tidemark Roughness And Articular Calcified Cartilage Thickness After Extracorporeal Shockwave Therapy on Various Locations of Knee Osteoarthritis J. - H. Cheng, C. – J. Wang, W. – Y. Chou, J. – M. Peng, S.- L. Hsu, C. – Y. Huang, J. – Y. Ko, K. - K. Siu, Taiwan Advantages of Preconditioning of ASCS by Shockwave Therapy 11.44-11.51 K. Freitag, M. C. Freitag, H. Pipis, A. Romero, M. Rico, E. M. Mayoral, Spain Hippo/YAP/TAZ Mediates Angiogenic Response And Exosome Release Upon SWT 11.51-11.58 F. Nägele, M. Graber, L. Pölzl, S. Lechner, V. Schweiger, R. Weiss, V. Weber, J. Holfeld, C. Gollmann-Tepeköylü, Austria 11.58-12.05 miR-19a-3p Containing Exosomes Improve Function of Ischemic Myocardium Upon Shockwave Therapy <u>J. Hirsch</u>, L. Pölzl, M. Graber, F. Nägele, D. Lobenwein, M. Hess, M. J. Blumer, E. Kirchmair, J. Zipperle, C. Hromada, S. Mühleder, H. Hackl, M. Hermann, H. Al Khamisi, R. Mittermayr, P. Paulus, H. Fritsch, N. Bonaros, R. Kirchmair, J. P. Sluijter, S. Davidson, M. Grimm, J. Holfeld, C. Gollmann-Tepeköylü, Austria, The Netherlands, United Kingdom Shockwaves Induce an Evolutionary Conserved Mechanism of Spinal Cord Regeneration 12.05-12.12 C. Gollmann-Tepeköylü, M. Graber, F. Nägele, T. B. Roehrs, J. Hirsch, L. Pölzl, B. Moriggl, A. Mayr, F. Troger, E. Kirchmair, J. F. Wagner, M. Nowosielski, C. Kremser, H. Hackl, R. Huber, D. Hercher, L. Mayer, J. Völkl, I. Tancevski, D. Meyer, M. Grimm, M. Knoflach, J. Holfeld, Austria Therapeutic Transdifferentiation of Fibroblasts to Functional Endothelial 12.12-12.19 **Cells Upon Shockwave Therapy** J. Hirsch, M. Graber, C. Gollmann-Tepeköylü, V. Schweiger, L. Pölzl, F. Nägele, D. Lener,

J. P. Cooke, J. Holfeld, Austria, United States of America

12.30-13.30

Lunch Break

H. Hackl, S. Sopper, E. Kirchmair, S. Lechner, D. Lobenwein, J. Völkl, I. Tancevski, M. Grimm,

Detailed Scientific Program I Thursday, November 04, 2021

3. 25+1 Years DIGEST Moderator: W. Schaden, Austria Chairs: K. Knobloch, Germany/ M. Ringeisen, Germany 13.30-13.45 **DIGEST History Since 1995** K. Knobloch, Germany **DIGEST Guidelines** 13.45-13.55 V. Auersperg, Austria 13.55-14.05 **DIGEST ESWT Certification Course** M. Ringeisen, Germany **ESWT** in German Orthopedic Practice 14.05-14.15 S. Thiele, Germany What DIGEST Means to Me 14.15-14.25 C. Leal, Colombia **Coffee Break** 14.30-15.00 4. ESWT in Pain and Myofascial Treatment Moderator: S. Thiele, Germany Chairs: K. Freitag, Spain/H. Müller-Ehrenberg, Germany **KEYNOTE**: Myofascial Pain Management. What Can we Expect From The Future 15.00-15.15 H. Müller-Ehrenberg, Germany 15.15-15.30 **KEYNOTE:** ESWT in Supportive Care And Rehabilitation of Cancer Patients R. Crevenna, Austria 15.30-15.37 Myofascial Trigger Points Treatment With Extracorporeal Shockwaves: A Novel Approach For Plantar Fasciitis F. Giordani, L. Tognolo A. Bernini, P. Ruggieri, C. Biz, A. C. Frigo, C. Stecco, S. Masiero, Italy 15.37-15.44 **Adhesive Capsulitis: Combined Treatment With Shockwaves And Ballistic Waves Performed During The Physiotherapy Session** C. Di Luise, S. Russo, M. Albano, G. Di Giorgio, Italy Radial Pressure Waves Efficacy on Myofascial Pain in Patient With Serious 15.44-15.51 Post-COVID Syndrome – Case Report J. Nedělka, T. Nedělka, Czech Republic

Chronic Shoulder Pain Management And Extracorporal Shockwave Treatment Through an Interdisciplinary Rehabilitation Perspective – Case Report

15.51-15.58

E. Kouloulas, Greece

Detailed Scientific Program I Thursday, November 04, 2021

16.00-16.45	POSTER SESSION I Jury: C. Leal, Colombia/K. Knobloch, Germany/R. Mittermayr, Austria
16.00-16.03	P1: Defining a Therapeutic Range For Regeneration of Ischemic Myocardium Via Shockwaves S. Lechner, J. Hirsch, L. Pölzl, F. Nägele, M. Graber, D. Lobenwein, E. Kirchmair, R. Huber, C. Dorfmüller, G. Schäfer, M. Hermann, H. Fritsch, I. Tancevski, M. Grimm, C. Gollmann-Tepeköylü, J.Holfeld, Austria
16.03-16.06	P2: Can Shockwave be Used For The Treatment of Meniscal Tears? P. E. Hobrough, United Kingdom
16.06-16.09	P3: Tennis Elbow, Study Protocol For a Randomized Clinical Trial: Needling With And Without Platelet-Rich Plasma After Failure of up-to-date Rehabilitation A. Schwitzguebel, M. Bogoev, V. Nikolov, F. Ichane, A. Laedermann, Switzerland
16.09-16.12	P4: Clinical Outcomes of Radial Versus Focused Extracorporeal Shockwaves in Plantar Fasciitis Y. Liu, A. Guo, S. Wang, L. Wang, L. Zhang, China
16.12-16.15	P5: Ultrasonographic Change After Extracorporeal Shockwave Therapy For Knee Osteoarthritis – Pilot Study H. – E. Yang, J. – H. Lee, J. – H. Jeon, South Korea
16.15-16.18	P6: Case Report – Treatment of a Patient With Knee Osteoarthritis B. Kalchovska, M. Gocevska, M. Manoleva, V. Koevska, B. Mitrevska, C. Gerakaroska-Savevska, E. Nikolik-Dimitrova, Republic of North Macedonia
16.18-16.21	P7: Pilot study: Peri/Spine actors for low back pain & RPW for knee pain. P. E. Hobrough, United Kingdom
16.21-16.24	P8: Radial Shockwave Therapy For Elite Runners P. E. Hobrough, United Kingdom
16.24-16.27	P9: Low-Energy Extracorporeal Shockwave Therapy For Flexor Carpi Ulnaris Calcific Tendinopathy: A Case Report M. Pérez-Cuesta Llaneras, A. Fernández-Bravo Rueda, A. Fernández López, Spain
17.00-18.00	ANNUAL GENERAL MEETING
18.30	Meeting point in the lobby of the Hotel Savoyen
As of 19.00	Bus transfer to Networking Dinner at the Art Historical Museum (KHM)

Detailed Scientific Program I Friday, November 05, 2021

As of 08.00

Congress Registration and Wake-up Coffee

5. Radial Pressure Waves in Physiotherapy and Professional Sports Moderator: T. Nedělka, Czech Republic Chairs: K. Freitag, Spain/M. Ringeisen, Germany **KEYNOTE**: Radial Pressure Wave Therapy And Training in Professional Dance Sports 09.00-09.15 A. Mohr, Germany **KEYNOTE:** Radial Pressure Waves (RPW) Indications in Physiotherapy 09.15-09.30 T. Nedělka, Czech Republic **KEYNOTE:** Radial Pressure Waves Combined with Dynamic Neuromuscular Stabilisation 09.30-09.45 Exercise Program – A New Perspective of Treatment in Sports Physiotherapy J. Katolicky, Czech Republic 10.00-10.30 **Coffee Break** 6. ESWT in Urology and Sexual Medicine Moderator: K. Knobloch, Germany Chairs: I. Goldstein, United States of America/J. Rassweiler, Germany 10.30-10.55 **KEYNOTE:** Novel Use of Low Intensity Shockwave Therapy For The Most Common **Sexual Dysfunctions in Men** I. Goldstein, United States of America **KEYNOTE**: High or Low Intensity ESWT For Peyronie's Disease – What Did We Learn? 10.55-11.15 J. Rassweiler, Germany 11.15-11.22 Efficacy Low-Intensity Shockwave Therapy Plus Tadalafil 5 mg Once Daily in Men With Erectile Dysfunction (ED): Comparison Study N. Markina, I. Mostovoy, D. Sterkhov, E. Voychenko, Russia LiESWT in The Treatment of Vasculogenic ED, CPPS and IPP 11.22-11.29 I. Motil, T. Sramkova, Czech Republic Low Energy Shockwave Therapy For Interstitial Cystitis: Preclinical Efficacy 11.29-11.36 in HCL Induced Cystitis Rat Model And Proof of Concept – A Randomized Placebo **Controlled Clinical Trial** <u>Y. – C. Chuang</u>, Y. – C. Shen, H. – J. Wang, W. – C. Lee, P. Tyagi, M. Chancellor, Taiwan, United States of America 11.36-11.43 Are Radial Pressure Waves Effective in Treating Erectile Dysfunction? A Systematic Review of Preclinical And Clinical Studies C. Sandoval-Salinas, H. A. Corredor, L. Fonseca, L. Manrique, G. Solis, J. P. Saffon, Colombia, Mexico Efficacy And Safety of Radial Pressure Waves For The Treatment of Erectile Dysfunction 11.43-11.50 C. Sandoval-Salinas, H. A. Corredor, J. M. Martinez, J. P. Saffon, A. F. Gallego, O. Uribe, Colombia Decrease in Opioid Use Post-Vestibulectomy Based on Pre-Operative 11.50-11.57 Low Intensity Vestibular Shockwave Therapy (LiSWT) I. Goldstein, United States of America Industrial Meeting * VENUE | room: Wien/Turin 1st Floor 12.00-13.00

Detailed Scientific Program I Friday, November 05, 2021

7.	ESWT in Disturbed Wound Healing
	Moderator: W. Schaden, Austria Chairs: C. Leal, Colombia/K. Knobloch, Germany
12.00-12.15	KEYNOTE: Clinical And Experimental Data of ESWT in Wound Healing R. Mittermayr, Austria
12.15-12.30	KEYNOTE: ESWT in Burns & Scars K. Knobloch, Germany
12.30-12.45	KEYNOTE: ESWT in Skin Ulcers – DFO, Vascular, Infectious C. Leal, Colombia
12.45-12.52	Extra Corporeal Shockwave Therapy as Additional Treatment For Lymphedema After Breast Cancer And Lymphatic Surgery <u>E. M. Joos</u> , A. Zeltzer, Belgium
13.00-14.00	Lunch Break
8.	ESWT in Neurological Pathologies
	Moderator: J. Holfeld, Austria Chairs: T. Nedĕlka, Czech Republic/R. Mittermayr, Austria
14.00-14.10	KEYNOTE: Changes in Autonomic Nervous System Reactivity After Focused Extracorporeal Shockwave Therapy in Chronic Lumbar Facet Joint Pain T. Nedĕlka, Czech Republic
14.10-14.20	KEYNOTE: ESWT in Peripheral Nerves D. Hercher, Austria
14.20-14.27	ESWT in Cervical Spine Injuries – Case Report C. Leal, Colombia
14.27-14.37	KEYNOTE: ESWT For Acute SCI – Clinical Trial W. Schaden, Austria
14.37-14.44	Longitudinal Study of Mild Cognitive Disease With TCE K. Freitag , M. C. Freitag, J. Pardo, Spain
14.44-14.51	Shockwave Treatment in Patients With Unilateral Spasticity of The Upper Limb After Ischemic or Hemorrhagic Stroke C. Gollmann-Tepeköylü, E. Holfeld, A. Mair, M. Thurner, K. Ogris, E. Genelin, G. Nawratil, M. Werkmann, J. Holfeld, E. Pucks-Faes, Austria
14.51-14.58	Clinical Effect of Extracorporeal Shockwave in The Treatment of Phantom Pair From Complete Spinal Injury Based on Brain Function Recombination Theory T. Wu, J. Wu, China
15.30-16.00	Coffee Break Poster Session

Detailed Scientific Program I Friday, November 05, 2021

15.30-16.00	POSTER SESSION II Jury: C. Leal, Colombia/K. Knobloch, Germany/R. Mittermayr, Austria
15.30-15.33	P11: Radial Extracorporeal Shockwave Therapy For Muscle Mass And Functionality in Patients Undergoing Maintenance Hemodialysis Y. S. Cho, S. Y Joo, C. H. Seo, South Korea
15.33-15.36	P12: Effect of Diabetes on Shockwave Therapy For The Treatment of Erectile Dysfunction C. Sandoval-Salinas, J. Benitez, H. Corredor, Colombia, Spain
15.36-15.39	P13: Low-Intensity Extracorporeal Shockwave Therapy And Low-Intensity Pulsed Ultrasound in Combination With Platelet Rich Plasma in Erectile Dysfunction Treatment Y. Zasieda, Ukraine
15.39-15.42	P14: Efficacy of Extracorporeal Shockwave Therapy (ESWT) in Partial Thickness Tendon Tears. A. M. Pozo Román, B. de la Fuente de Hoz, Spain
15.42-15.45	P15: Efficacy of Radial Shockwave Therapy For Promoting Healing of Delayed Forearm Fractures in Children With Ultrasonic Guidance Y. Liu, S.Wang, A. Guo, F. Duan, L. Zhang, China
15.45-15.48	P16: Fractional Extra Corporal Shockwave Therapy for Enthesiopathies, Non-Unions And Pain Syndromes. Optimization And Standardization I. Kulac, H. Rabl, V. Matzi, R. Schrittwieser, Austria
9.	Recent Developments of ESWT in
	Orthopedics and Traumatology
	Moderator: J. Eid, Brazil Chairs: J. R. Aranzabal, Spain/V. Auersperg, Austria
16.00-16.10	KEYNOTE: ESWT in Osteoarthritis J. Eid, Brazil
16.10-16.20	KEYNOTE: Shoulder And Elbow ESWT Indications From a Surgeons' Perspective D. Moya, Argentina
16.20-16.30	KEYNOTE: ESWT & EMTT in Supraspinatus Tendinopathy/RCT L. Gerdesmeyer, Germany
16.30-16.40	KEYNOTE: ESWT in Hand Surgery K. Knobloch, Germany
16.40-16.50	KEYNOTE: Intraosseous PRP & ESWT in Bone Marrow Edema – A Pilot Study B. Blatz, United States of America
16.50-16.57	Treatment of Osteoporosis With Defocused Extracorporeal Shockwave Therapy: A Clinical Pilot Study M. Koolen, M. Kruyt, C. Öner, W. Schaden, H. Weinans, O. van der Jagt, Austria, The Netherlands
16.57-17.04	Can The Total Energy Represent a Predictive Factor For Non Union Therapy? S. Russo, C. Di Luise, M. Albano, G. Di Giorgio, Italy

Detailed Scientific Program | Friday, November 05, 2021

Traps And Challenges W. Sun, F. Gao, Z. Li, China
Focused Shockwave Treatment For Greater Trochanteric Pain Syndrome a Multicenter, Randomized, Controlled Clinical Trial M. Ch. Vulpiani, F. Santoboni, M. Vetrano, L. De Iaco, Italy
Comparison of Insertional Versus Non-Insertional Plantar Fasciitis Treated by Focused Extracorporeal Shockwave H. Odagiri, Japan
Results in The Use of Focused Shockwaves in The Treatment of Postoperative Foot And Ankle Non-Unions And Delayed Unions <u>D. Moya</u> , H. Olivieri, B. García Ghigliani, Argentina
Shockwaves Are Equally Effective in Treating Tibial Nonunion Compared to Standard of Care Surgery But Cause Significantly Less Direct Health Care Costs R. Mittermayr, Austria

Awards - Closing Ceremony

Moderator: W. Schaden, Austria

Chairs: K. Knobloch, Germany/C. Leal, Colombia/R. Mittermayr

18.15 The winners of the scientific prizes will be awarded

Social Project of the ISMST-Report

C. Leal, Colombia

"What does ISMST means to me"

J. Eid, Brazil

Handing over the Presidency

Greetings from the President and invitation to the Congress in Prague 2022

19.00 Meeting point in the lobby of the Hotel Savoyen

As of 19.30 Get-Together at the "Salm-Bräu" Brewery

List of Chairs

Auersperg Vinzenz, Pyhrn-Eisenwurzen-Klinikum Kirchdorf Steyr, Austria

D'Agostino Cristina, Humanitas Research Hospital, Milano, Italy

Aranzabal José Ramón, Traumatology – Shock Wave Unit, San Sebastian, Spain

Freitag Karin, DKF, Madrid, Spain

Gerdesmeyer Ludger, University Medical Center Schleswig-Holstein, Kiel, Germany

Goldstein Irwin, Alvarado Hospital, San Diego CA, United States of America

Hercher David, Ludwig Boltzmann Institute for Experimental and Clinical Traumatology, Vienna, Austria

Knobloch Karsten, SportPraxis Prof. Knobloch, Hannover, Germany

Leal Carlos, Fenway Medical, Bogotá, Colombia

Mittermayr Rainer, AUVA Trauma Center Vienna, Austria

Müller-Ehrenberg Hannes, Trigger point center – orthopedic private practice, Münster, Germany

Nedělka Tomáš, Czech Technical University Prague, Czech Republic

Rassweiler Jens, SLK-Kliniken, Heilbronn, Germany

Ringeisen Martin, Private Practice, Augsburg, Germany

List of Speakers

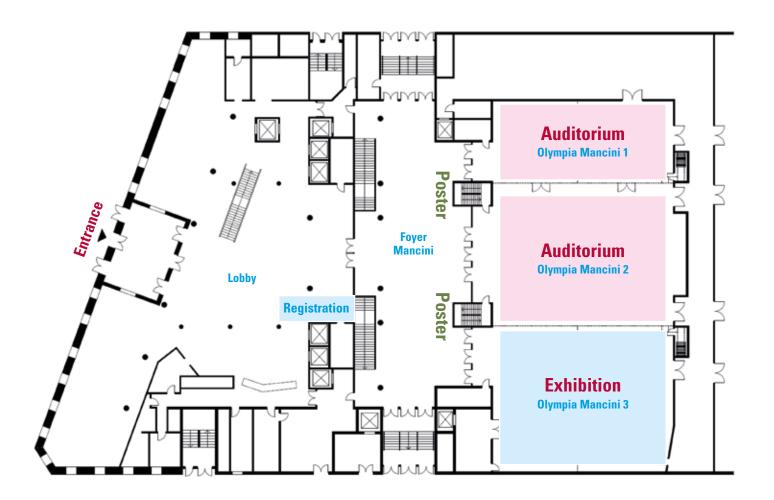
Auersperg Vinzenz, Pyhrn-Eisenwurzen-Klinikum Kirchdorf Steyr, Austria	(Session 3
Blatz Brice, O'Connor Hospital Stanford, CA, United States of America	(Session 9)
Cheng Jai-Hong, Chang Gung Memorial Hospital, Kaohsiung, Taiwan	(Session 2
Cho Yoon Soo, Sacred Heart Hospital, Hallym University College of Medicine, Hangang South Korea	(Poster 11
Chuang Yao Chi, Chang Gung Memorial Hospital, Chang Gung University College of Medicine, Kaohsiung, Taiwan	(Session 6
Crevenna Richard, Medical University of Vienna, Austria	(Session 4
Eid José , Centro de Referencia no tratamento por ondas de choque em ortopedia, Sao Paolo, Brazil	(Session 9
Freitag Karin, DKF, Madrid, Spain	(Session 2 8)
Gerdesmeyer Ludger, University Medical Center Schleswig-Holstein, Kiel, Germany	(Session 9
Giordani Federico. University of Padua. Italy	(Session 4)

Gollmann-Tepeköylü Can, Medical University of Innsbruck, Austria	(Session 2 8)
Goldstein Irwin, Alvarado Hospital, San Diego CA, United States of America	(Session 6
Graber Michael, Medical University of Innsbruck, Austria	(Session 2)
Heinzel Christoph, Department of Hand-, Plastic, Reconstructive and Burn Surgery, BG Klinik Tübingen, Germany	(Session 2
Hercher David , Ludwig Boltzmann Institute for Experimental and Clinical Traumatology, Vienna, Austria	(Session 8
Hirsch Jakob, Medical University of Innsbruck, Austria	(Session 2)
Hobrough Paul Edward, Hobrough-Healthcare, Corbridge, United Kingdom	(Poster 2 7 8)
Holfeld Johannes, Medical University of Innsbruck, Austria	(Session 2)
Joos Erika Maria, UZ Brussels, Belgium	(Session 7)
Kalchovska Biljana , Institute of Physical Medicine and Rehabilitation-Skopje, Republic of North Macedonia	(Poster 6
Katolicky Jakub, Czech Technical University Prague, Czech Republic	(Session 5
Kim Jaehee, Korean Association of Medical Shockwave Treatment, Seoul, South Korea	(Session 1
Knobloch Karsten, SportPraxis Prof. Knobloch, Hannover, Germany	(Session 1 3 7 9
Ko Jih-Yang, Chang Gung Memorial Hospital, Kaohsiung, Taiwan	(Session 1)
Koolen Marianne, Department of Orthopaedics, University Medical Centre Utrecht, the Netherlands	(Session 9
Kouloulas Efthimios, Physiatriki Rehabilitation Center, Athens, Greece	(Session 4)
Kulac Ibrahim, LKH-Hochsteiermark Standort Leoben, Austria	(Poster 16
Leal Carlos, Fenway Medical, Bogotá, Colombia	(Session 1 3 7 8
Lechner Sophia, Medical University of Innsbruck, Austria	(Poster 1)
Liu Yajun, Jishuitan Hospital, Beijing, China	(Poster 4 15
Di Luise Carla, Università Federico II Naples, Italy	(Session 4)
Markina Nataliya, Private Clinic Viterra, Moscow, Russia	(Session 6
Mittermayr Rainer, AUVA Trauma Center Vienna, Austria	(Session 7 9)
Mohr Alexander, Arcus SportKLinik Pforzheim, Germany	(Session 5
Motil laor, EURED clinic, Prague, Czech Republic	(Session 6)

List of Speakers

Moya Daniel, British Hospital, Buenos Aires, Argentina	(Session 9)
Müller-Ehrenberg Hannes , Trigger point center – orthopedic private practice, Münster, Germany	(Session 4)
Nägele Felix, Medical University of Innsbruck, Austria	(Session 2)
Nedělka Jiří, MUDr. Nedělka s.r.o., Prague, Czech Republic	(Session 4)
Nedělka Tomáš, Czech Technical University Prague, Czech Republic	(Session 5 8)
Odagiri Haruki, Hotakubo Orthopaedic Hospital, Kumamoto, Japan	(Session 9)
Omodani Toru, University of Pittsburgh, United States of America	(Session 1)
Pérez-Cuesta Llaneras Maria , Hospital Universitario Fundación Jiménez Díaz, Madrid, Spain	(Poster 9)
Pölzl Leo, Medical University of Innsbruck, Austria	(Session 2)
Pozo Román Ana María, SACYL, Complejo Hospitalario, Segovia, Spain	(Poster 14)
Rassweiler Jens, SLK-Kliniken, Heilbronn, Germany	(Session 6)
Ringeisen Martin, Private Practice, Augsburg, Germany	(Session 3)
Russo Sergio, Università Federico II Naples, Italy	(Session 9)
Sampson Steven, UCLA, CA, United States of America	(Session 1)
Sandoval-Salinas Carolina, Boston Medical Group, Bogotá, Colombia	(Session 6 Poster 12)
Schaden Wolfgang, Austrian Workers' Compensation Board, Vienna, Austria	(Session 8)
Schwitzguebel Adrien, La Providence Hospital, Neuchâtel, Switzerland	(Poster 3)
Slezak Cyrill, Utah Valley University, Orem UT, United States of America	(Session 2)
Sugiyama Takuro, University Orthopedic Department, Kurume, Japan	(Session 1)
Sun Wei, China-Japan Friendship Hospital, Beijing, China	(Session 9)
Thiele Sergej, Chimanos – Medical Care Center, Berlin, Germany	(Session 3)
Vulpiani Maria Chiara, Sapienza University of Rome, Italy	(Session 9)
Wu Tianyu , Rehabilitation Hospital of PLA, Beijing, China	(Session 8)
Yang Hea-Eun, VHS Medical Center, Seoul, South Korea	(Poster 5)
Zasieda Yurii. Mens Health Clinic. Kiev Ukraine	(Poster 13)

HOTEL SAVOYEN – GROUND FLOOR



ADDITIONAL INFORMATION

Photographic and Video Documentation

By participating, you agree to the present and future use of the pictures and videos taken during the event by the Austrian Workers' Compensation Board. It is prohibited to take pictures and videos from the scientific presentations.

WEDNESDAY, NOVEMBER 03, 2021

19.00 Welcome Cocktail at the Hotel Savoyen | Foyer

THURSDAY, NOVEMBER 04, 2021

As of 20.00 Networking Dinner

The Art Historical Museum (KHM) is located in the center of Vienna at the "Ringstrasse". Planning of the Ringstrasse began in 1857 and included the project to bring together and show the imperial collections in a grand new building featuring state-of-the-art technical and display facilities. The Emperor also enlarged the plans to create what was known as the "imperial forum". He envisaged an additional — also symmetrical — pair of buildings aligned with the two museums, each of which featured a semi-circular facade. The building's internal structure combines two architectural traditions: entrance hall, staircase and cupola hall form a dramatic unit that celebrates the imperial patron and his predecessors. An additional elegant feature is the circular opening in the ceiling of the entrance hall that offers visitors their first glimpse of the cupola hall. Ascending the stairs, visitors pass Antonio Canova's "Theseus Slaying the Centaur" on their way to the cupola hall, the apex of imperial display. Along this central axis a wealth of neo-baroque decorations create one of the most solemn and splendid interiors of late-nineteenth-century Vienna, probably unrivalled in any other European museum.

Planning of the Ringstrasse began in 1857 and included the project to bring together and show the imperial collections in a grand new building featuring state-of-the-art technical and display facilities.



FRIDAY, NOVEMBER 05, 2021

19.00 Get-Together at the "Salm-Bräu" Brewery

Welcome to the wonderful world of home-brewed beer specialties according to old recipes and the love of Viennese home cooking. Welcome to the historic walls with over 450 years of eventful history. Welcome to the Salm Bräu Brewery.



Quick connections in Vienna





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X SETOC - IV ONLAT Congress VI ISMST Basic Research Meeting VII Certification Course

Last Update for abstracts and communications January 2022

24, 25, 26 march 2022 Madrid



Place: Medical College in Madrid
Calle Santa Isabel, 51 – Madrid

Technical Secretary:

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24th

World Congress of the International Society

for Medical Schockwave

Treatment



Vienna House Diplomat, The Czech Republic

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15–17 September

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