

Industry morning

Wednesday, 16 June 2021 | 08:00 - 12:00 CEST (GMT+2) | Channel 1

Educational Afternoon

Wednesday, 16 June 2021 | 15:00 - 18:30 CEST (GMT+2) | Channel 1

Opening Ceremony

Wednesday, 16 June 2021 | 19:00 - 19:15 CEST (GMT+2) | Channel 1

Disasters of the Masters

Wednesday, 16 June 2021 | 19:15 - 21:15 CEST (GMT+2) | Channel 1

Chair: Daniel Herren, Elisabet Hagert

Five established and experienced hand surgeons are presenting a personal case in which the outcome did not match the anticipated result. On the basis of these 'disasters', complications and its conclusions will be highlighted. Expect a firework of learning lessons, do's and don'ts, pearls and pitfalls.

Case presentations

Critical analysis

Conclusion

- What went wrong?

- What would I do again like this?

- What did I learn?

Moderated Discussion with questions from the audience

Participants

- Elisabet Hagert (Sweden)

- Max Haerle (Germany)

- Philippe Bellemère (France)

- Radek Kebrle (Czech Republic)

- Daniel Herren (Switzerland)

Instructional Course 1

Thursday, 17 June 2021 | 07:00 - 09:00 CEST (GMT+2) | Channel 1

A-0697 Flexor tendon

Peter Amadio, Duncan Angus McGrouther

A-0698 Extensor tendon

David Elliot, Thomas Giesen

A-0699 Sensory nerve

Pierluigi Tos

A-0700 Mixed nerve

Dominic Power

A-0701 Nerve decompression

Daniel Nagle

A-0702 Finger fracture

Mick Kreulen

A-0703 Carpal fracture

Max Haerle

A-0704 Management of complications of Scaphoid Fracture Fixation

Geert Buijze

A-0705 Lunat facet fractures

Greg Bain, Simon MacLean

A-0706 Radius acute fracture

Niels Schep

A-0707 Correction malunion distal radius: theoretical considerations

Simon Strackee

A-0708 Correction malunion distal radius: practical considerations

Frederik Verstreken

Live surgery 1

Thursday, 17 June 2021 | 09:00 - 11:30 CEST (GMT+2) | Channel 1

Live surgery demonstration from Rotterdam with the participation of the international FESSH surgical team

Table 1: PIP, Wrist

Table 2: TMC, DRU

Distal radius fractures

Free papers 01

Thursday, 17 June 2021 | 11:30 - 12:30 CEST (GMT+2) | Channel 1

Chair: Philippe Liverneaux

A-0104 Treatment of minimally displaced metaphyseal both-bone fractures of the distal forearm in children: long-term results of a randomised controlled multicenter trial.

Linde Musters Leon W. Diederix Kasper C. Roth Pim P. Edomskis Gerald A. Kraan Jan H. Allema Max Reijman Joost W. Colaris

Linde Musters, Department of Orthopedics, Noordwest Ziekenhuisgroep Alkmaar

A-0052 A New Clinical Pathway for the Management of Paediatric Distal Radius Torus Fractures – Fewer Appointments and Safe

Care

Raj Pradhan¹, Colin McDonald¹, Aashish Ahluwalia¹, Alistair Hunter¹

¹ University College Hospital, London, UK

A-0100 Cost analysis of operative versus nonoperative treatment for acceptably reduced intra-articular distal radius fractures

C.A. Selles (1,2), M.A.M. Mulders¹, S. van Dieren¹, J.C. Goslings¹, N.W.L. Schep²

¹ Amsterdam UMC, location AMC, Amsterdam, The Netherlands ² Maasstad Hospital, Rotterdam, The Netherlands

A-0241 Complications of the nonoperative versus operative treatment of displaced and reduced distal radial fractures in adults: a systematic review

Eva A.K. van Delft^{1,2}, Emiliën C. J. Wegerif¹, Ralph de Vries¹, Jeffrey Vermeulen³, Frank W. Bloemers¹.

¹ Amsterdam UMC, Vrije Universiteit Amsterdam, Netherlands; ² Spaarne Gasthuis, Haarlem, Netherlands; ³ Maasstad Ziekenhuis, Rotterdam, Netherlands

A-0004 Pronator quadratus repair after volar plate fixation in distal radial fractures: evaluation of the clinical and functional outcome and of the protective role on the flexor tendons – a randomized controlled study

Chul Ki Goorens¹, Pieter-Bastiaan De Keyzer^{1,2}, Kjell Van Royen², Steven Provyn¹, Jean Goubau²

¹ Regionaal Ziekenhuis Tienen, Tienen, Belgium; ² Universitair Ziekenhuis Brussel, Brussel, Belgium

A-0413 Managing Acute on Chronic Distal Radius Fractures, a case series

Jorge Orbay¹, Menar Wahood², Abby Halpern², Deana Mercer³

¹ The Miami Hand & Upper Extremity Institute, Miami, FL, USA; ² Larkin University Hospital, Department of Orthopedics, Miami, FL, USA; ³ The University of New Mexico, Department of Orthopaedics, Albuquerque, NM, USA

A-0477 Ultrasound evaluation of the flexor pollicis longus tendon following volar plate fixation for distal radius fractures and its relationship to the Soong classification

Jin Woo Park¹, Young Sik Yoon¹

¹ Kangwon National University Hospital, Chuncheon, South Korea

A-0025 Impact of age on outcomes of flexor tendon rupture following distal radius fracture

Koji Moriya¹, Yutaka Maki¹, Naoto Tsubokawa¹

¹ Niigata Hand Surgery Foundation, Japan

A-0375 Application of Continuous Passive Motion machine in patients with distal radius fractures; Randomized Clinical Trial

Arezo Shirzadi, Amir Reza Farhoud, Erfan Shafiee

Maryam Farzad B.Sc., M.Sc., PhD OT Post doctorate associate, University of Western Ontario, Elborn College, 1201 Western Rd., London, ON, N6G 1H1. +12265032165

A-0358 Pain at Rest, Movement Evoked Pain, and their Ratio Predict Pain and Disability at Six- and 12-Months after Distal Radius Fracture

Joy C MacDermid BSc PhD. Professor, Physical Therapy and Surgery, Western University, London, ON and Co-director Clinical Research Lab, Hand and Upper Limb Centre, St. Joseph's Health Centre, London, Ontario; Professor Rehabilitation Science McMaster University, Hamilton, ON, jmacderm@uwo.ca Saurabh Mehta, PT, PhD Associate Professor School of Physical Therapy, Marshall University, Huntington, WV, USA and Clinical Associate Professor, Department of Orthopedic Surgery, Joan C Edwards School of Medicine, Marshall University, Huntington, WV, USA. mehtas@marshall.edu Ruby Grewal, MD, FRCSC. Professor, Roth|McFarlane Hand and Upper Limb Center, Department of Surgery, Western University, London, ON. rgrewa@uwo.ca Erfan Shafiee, PhD candidate, School of Physical Therapy, Department of Health and Rehabilitation Sciences, University of Western Ontario. London, Ontario, Canada. eshafiee@uwo.ca

Post doctorate associate, School of Physical Therapy, Department of Health and Rehabilitation Sciences, University of Western Ontario. Roth McFarlane Hand and Upper Limb Centre, St. Joseph's Hospital, London, Ontario, Canada Assistant professor, Department of Occupational therapy, University of Social Welfare and Rehabilitation Sciences, Phone +12265032165, Email: mfarzad@uwo.ca

CMC Thumb 1

Free papers 02

Thursday, 17 June 2021 | 11:30 - 12:30 CEST (GMT+2) | Channel 2

Chair: Ilse Degreef

A-0344 Comparison between the Manometric Brace and Conventional Plaster Brace for Patients with Trapeziometacarpal Osteoarthritis: A Controlled Randomised Crossover Clinical Trial

E. Eyiis, N.M.C. Mathijssen, P. Veldt-Kok, J. Sluijter, G.A. Kraan
Reinier de Graaf Hospital, Delft, The Netherlands

A-0394 The prevalence, incidence, and progression of radiographic Thumb Base osteoarthritis in a population-based cohort: the Rotterdam Study.

JS Teunissen (1,2,3), RM Wouters (1,2,4), SMA Bierma-Zeinstra (5,6), JBJ van Meurs⁷, TAR Schreuders¹, JM Zuidam¹, RW Selles (1,2)
¹ Department of Plastic, Reconstructive and Hand Surgery, Erasmus MC, University Medical Centre Rotterdam, The Netherlands ² Department of Rehabilitation Medicine, Erasmus MC, University Medical Centre Rotterdam, Rotterdam, The Netherlands ³ Department of Plastic, Reconstructive, and Hand Surgery, Radboudumc, Nijmegen, The Netherlands ⁴ Center for Hand Therapy, Handtherapie Nederland, The Netherlands ⁵ Department of General Practice, Erasmus MC, University Medical Centre Rotterdam, Rotterdam, The Netherlands ⁶ Department of Orthopedic Surgery, Erasmus MC, University Medical Centre Rotterdam, Rotterdam, The Netherlands ⁷ Department of Internal Medicine, Erasmus MC, University Medical Centre Rotterdam, Rotterdam, The Netherlands

A-0384 The prevalence of radiographic thumb base osteoarthritis: a meta-analysis

MJW van der Oest(1)^{2,3}, LS Duraku¹, ER Andrinopoulou⁴, RM Wouters^{1,2,5}, SMA Bierma-Zeinstra^{6,7} RW Selles^{1,2}, JM Zuidam¹
¹Department of Plastic, Reconstructive and Hand Surgery, Erasmus MC, Rotterdam, The Netherlands ²Department of Rehabilitation Medicine, Erasmus MC, Rotterdam, The Netherlands ³Hand and Wrist Center, Xpert Clinic, the Netherlands ⁴Department of Biostatistics, Erasmus MC, Rotterdam, The Netherlands ⁵Center for Hand Therapy, Handtherapie Nederland, Utrecht, The Netherlands ⁶Department of General Practice, Erasmus MC, Rotterdam, The Netherlands ⁷Department of Orthopedic surgery, Erasmus MC, Rotterdam, The Netherlands

A-0349 Radiological measurement of trapezial dysplasia – variation of trapezial tilt and trapezial inclination

Kjell Van Royen¹, Mathieu Gevers¹, Bert Vanmierlo², Thierry Scheerlinck¹, Jean Goubau¹
1) UZ Brussel, Brussels, Belgium 2) AZ Delta, Roeselare, Belgium

A-0352 3D planning and patient specific instrumentation for intraarticular corrective osteotomy of trapezio-metacarpal and finger joints

Method Kabelitz¹, Pascal Furrer¹, Sandro Canonica¹, Andreas Schweizer¹
¹ University Hospital Balgrist, Zürich, Switzerland

A-0249 Long-term Follow Up after first dorsal extension osteotomy in early thumb carpometacarpal arthritis

Enrico Coppo, Philipp Honigmann, Damian Sutter
Kantonsspital Baselland, Liestal, Switzerland

A-0186 Autologous Fat Transplantation for Thumb Carpometacarpal Joint Osteoarthritis (Liparthroplasty): A Case Series with 2 Years of Follow-up

Michael Pollak^{1,2}, Matthias Holzbauer^{1,2}, Manfred Schmidt^{2,3}, Oskar Kwasny^{1,2}, Dominik Duscher⁴, Stefan M. Froschauer^{1,2*}
¹ Department for Trauma Surgery and Sport Traumatology, Med Campus III, Kepler University Hospital Linz, Krankenhausstrasse 3, 4020 Linz, Austria; ² Johannes Kepler University Linz, Faculty of Medicine, Altenbergerstraße 69, 4020 Linz, Austria; ³ Department of Plastic, Aesthetic, and Reconstructive Surgery, Med Campus III, Kepler University Hospital Linz, Krankenhausstrasse 3, 4020 Linz, Austria; ⁴ Department of Plastic Surgery and Hand Surgery, Eberhard Karls University Tuebingen, Germany; * Correspondence: Stefan.froschauer@maz.at; Tel.: 0043 732 780673992

A-0499 Tenosuspension technique with suture-anchor in first carpo-metacarpal joint arthritis: long term follow-up results

Laura Martini, G. Caruso, L. Preziuso, S. Sargenti¹, A.Vitali
Division of Hand and Upper Limb Surgery, Azienda Usl Toscana Centro - Palagi Hospital, Florence, Italy ¹ Physiotherapist Unit, Azienda Usl Toscana Centro, Florence, Italy

A-0095 Stability of the first carpometacarpal joint during trapeziectomy with tendon suspension and interposition

Pascal Behm^{1,2}, Miriam Marks¹, Stephen J. Ferguson², Michael Brodbeck¹, Daniel B. Herren¹
¹ Schulthess Klinik, Switzerland ² ETH Zurich, Switzerland

A-0135 Metacarpal Subsidence Following Trapeziectomy

Abigail E. Meyers, Jillian P. Krebs, Arvin Smith, Antonio Rampazzo, Bahar Bassiri Gharb
Cleveland Clinic, Cleveland, OH, USA

CTS 1

Free papers 03

Thursday, 17 June 2021 | 11:30 - 12:30 CEST (GMT+2) | Channel 3

Chair: Anne Vochteloo

A-0369 Diagnostic accuracy of sensory and motor tests for carpal tunnel syndrome diagnosis: a systematic review

Dabbagh A, McDermid JC, Yong J, Macedo LG, Packham TL, Ghodrati M

Armaghan Dabbagh PT PhD Candidate¹, Joy C MacDermid PT PhD (1,2,3), Joshua Yong OT MSc⁴, Tara L. Packham OT PhD², Luciana G. Macedo PT PhD², Maryam Ghodrati PT PhD Candidate¹ ¹ School of Physical Therapy, Faculty of Health Science, Western University, London, Ontario, Canada ² School of Rehabilitation Science, McMaster University, Hamilton, Ontario, Canada ³ Roth McFarlane Hand and Upper Limb Centre, St. Joseph's Hospital, London, Ontario, Canada ⁴ Sengkang General Hospital, Singapore

A-0368 Determinants of Pain and Disability After Carpal Tunnel Release. Systematic Review

Erfan Shafiee¹, Maryam Farzad¹, Joy MacDermid¹, Amirreza Farhoud², Mohammad Mahdavi³

¹ School of Physical Therapy, Department of Health and Rehabilitation Sciences, University of Western Ontario, London, ON, Canada; ² Imam Hospital, Tehran University of Medical Sciences, Joint Reconstruction Research Center, Tehran, Iran; ³ University of Social Welfare and Rehabilitation Sciences, Tehran, Iran

A-0598 Carpal Tunnel Syndrome: live with pain or live without pain?

Daragan R.¹, Kondrashova I.¹ Kudlai R.¹, Boiko M.¹, Tereshenko A.¹, Daragan V.²

«City Clinical Hospital №16»¹; «Dnipropetrovsk hospital for war veterans»² Dnipro, Ukraine

A-0402 Surgical intervention for carpal tunnel syndrome in individuals with spinal cord injuries - patient characteristics, diagnostic considerations and treatment outcome

Armin Pallaver^{1,2}, Silvia Schibli¹, Jan Fridén¹

¹ Swiss Paraplegic Centre, Notwil, Switzerland; ² Cantonal Hospital of Lucerne, Switzerland

A-0692 Ultrasound-guided, ultra-minimally-invasive carpal tunnel release – literature review of a novel trend in hand surgery and discussion of own preliminary results

Konrad Mende, Valentin Schmid, Dirk J. Schaefer, Andreas Gohritz

Plastic, Reconstructive and Aesthetic Surgery, Hand Surgery, University Hospital, Basel, Switzerland

A-0204 The effect of unilateral carpal tunnel release on the non-operated, contralateral hand.

Andrzej Zyluk, Pawel Dec

Department of General and Hand Surgery, Pomeranian Medical University in Szczecin, Poland

A-0686 The influence of illness perception and mental health on return to work after carpal tunnel release

M.C. Jansen^{1,2,3}, M.J.W. van der Oest^{1,2,3}, K.P. de Haas², R.W. Selles^{1,2}, J.M. Zuidam¹

¹ Department of Plastic, Reconstructive and Hand Surgery, Erasmus MC, Rotterdam, The Netherlands; ² Department of Rehabilitation Medicine, Erasmus MC, Rotterdam, The Netherlands. ³ Hand and Wrist Center, Xpert Clinic, the Netherlands.

A-0098 The predictive value of grip strength in carpal tunnel syndrome

Balazs Lenkei, Adrienn Lakatos, Zsolt Szabó

Hand Surgery Center Miskolc, Hungary

A-0012 What does preoperative pinch strength predict in case of carpal tunnel syndrome?

Adrienn Lakatos, Balazs Lenkei, Zsolt Szabo

Hand Surgery Center, Miskolc, Hungary

Clinical Examination / Diagnostic

Free papers 04

Thursday, 17 June 2021 | 11:30 - 12:30 CEST (GMT+2) | Channel 4

Chair: Leila Harhaus

A-0608 Sensitivity and specificity of clinical examination in open injuries of the hand

Jordan Oldbury¹, James McGhee¹, Alastair Lowrie¹

¹ Department of Plastic Surgery, Ninewells Hospital, Dundee, United Kingdom

A-0167 Diagnostic accuracy of history taking, physical examination and imaging for non-chronic finger, hand and wrist ligament and

tendon injuries: a systematic review update.

Patrick Krastman¹, Nina M. Mathijssen³, Sita M.A. Bierma-Zeinstra^{1,2}, Gerald Kraan³, Jos Runhaar¹

¹ Erasmus MC University Medical Center Rotterdam, Rotterdam, the Netherlands, Department of General Practice. Room NA1911 PO Box 2040, 3000 CA Rotterdam, the Netherlands. ² Erasmus MC University Medical Center Rotterdam, Rotterdam, the Netherlands, Department of Orthopaedics. Department of General Practice. Room NA1920 PO Box 2040, 3000 CA Rotterdam, the Netherlands. ³ Reinier de Graaf Groep, Delft, the Netherlands, Department of Orthopaedic Surgery. Reinier de Graafweg 5-11, 2625 AD Delft, the Netherlands.

A-0467 Nerve Injuries and Delays in Treatment Negatively Impact Patient-Reported Quality of Life

Ivica Ducic¹, John M. Felder²

¹ Washington Nerve Institute, McLean, VA, USA; Washington University, St Louis, USA

A-0452 Patient-reported treatment injuries after hand surgery. A review of 1321 claims submitted to the Norwegian System of Patient Injury Compensation 2007-2017.

Sunniva Martine Kolstad Addison¹, Lisa Sofie Albrigtsen¹, Ida Rashida Khan Bukholm^{2,3}, Hebe Désirée Kvernmo^{1,4}

¹ Faculty of Health Sciences, University of Tromsø - Arctic University of Norway ² The Norwegian System of Patient Injury Compensation ³ Norwegian University of Life Sciences ⁴ Hand Unit, Department of Orthopaedic Surgery, Northern Norway University Hospital

A-0263 Image quality and radiation exposure of the Mini C-arm versus the C-arm; is there a cut-off point between both device?

JRM van Rappard (1,2), MJPF Ritt², SD Strackee², N Veeger¹, CM Moues-Vink¹

¹ Medical Center Leeuwarden, the Netherlands, ² Amsterdam University Medical Center, the Netherlands

A-0035 High-resolution ultrasound is a more useful primary diagnostic tool than magnetic resonance imaging for subungual glomus tumors

In Cheul Choi, Hyun Jae Ryoo, Ji Hun Park, Jong Woo Kang, Jong Woong Park

Korea University College of Medicine, Seoul, South Korea

A-0685 The Effects of Kinesio Tape® and No Tape for Muscle Facilitation and Inhibition, for Collegiate Athletes with Self-Reported Shoulder Pain

Greg Chown, Benjamin Infantolino, Christopher Wise, Rachel Holmes, Samantha O'Donnell, Katelyn Pfeiffer, Victoria Wardrn

Alvernia University, Reading, Pennsylvania, USA

A-0145 Why do patients with breast cancer visit hand clinic?

Ji Sup Hwang, Yohan Lee, Kee Jeong Bae, Jihyeung Kim, Hyun Sik Gong, Young Ho Lee, Goo Hyun Baek

Seoul National University College of Medicine, Seoul National University Hospital, Korea

A-0295 Complications and safety of the transplanted organ after upper extremity surgery in patients receiving immunosuppressant therapy after solid organ transplantation

Seonjeong Lee, Jae Kwang Kim, and Young Ho Shin

Department of Orthopaedic Surgery, Asan Medical Center, University of Ulsan College of Medicine, Seoul, South Korea

A-0075 Electric cutters, a health care issue

Diogo Andrade Guimarães; Luís Vieira; Luís Ribeiro; Manuel Vilela; Miguel Matias; Pedro Martins; Maria Manuel Mouzinho

Centro Hospitalar Universitário Lisboa Central, Lisboa, Portugal

DIP / PIP joints / Nail

Free papers 05

Thursday, 17 June 2021 | 11:30 - 12:30 CEST (GMT+2) | Channel 5

Chair: Piotr Czarnecki

A-0387 The retinacular ligaments of the extensor aponeurosis revisited

Tomas Borgström¹, Jörgen Trandum Jensen², Lars. B. Dahlin^{1,3}

¹ Department of Hand Surgery, Skåne University Hospital, Malmö, Sweden ² Department of Cellular and Molecular Medicine, Panum Institutet, University of Copenhagen, Denmark ³ Department of Translational Medicine – Hand Surgery, Lund University, Malmö, Sweden

A-0581 Easy flow with a MiniFlo? An external distraction device to overcome joint contractions.

Lena Fuest, Luzian Haug, Stefanie Hirsiger, Esther Vögelin

Department of Plastic and Handsurgery, University Hospital Bern, Switzerland

A-0286 Comparative study between tension band wiring and compression screw for proximal interphalangeal and metacarpophalangeal joint arthrodesis

Jorge G. Boretto, Javier Bennice, Ezequiel E. Zaidenberg, Ignacio Rellan, Agustin G. Donndorff, Gerardo L. Gallucci, Pablo De Carli
Hospital Italiano de Buenos Aires, Ciudad Autónoma de Buenos Aires, Argentina

A-0445 Outcomes and Complication Rates following the use of the MatOrtho PIPR Arthroplasty System in the Management of Proximal Interphalangeal Joint Osteoarthritis

Timothy Hardwick, Christopher Williams
Royal Sussex County Hospital, Brighton, UK

A-0031 Five-year outcomes of surface replacing arthroplasty at the proximal interphalangeal joint

Vanessa Reischenböck¹, Miriam Marks², Daniel B. Herren¹, Stephan Schindele¹
¹ Department of Hand Surgery Schulthess Klinik, Zurich, Switzerland ² Department of Teaching, Research and Development Schulthess Klinik, Zurich, Switzerland

A-0125 Partial resection of volar plate for patients with stiff finger

Ji Sup Hwang, Yohan Lee, Kee Jeong Bae, Jihyeung Kim, Hyun Sik Gong, Young Ho Lee, Goo Hyun Baek
Seoul National University College of Medicine, Seoul National University Hospital, Korea

A-0278 Percutaneous DIP joint arthrodesis – outcomes over the last 10 years of performing this technique

Soha Sajid, Jefin, Jose, Akshay Malhotra, David Ford, Simon Pickard
Robert Jones and Agnes Hunt Orthopaedic Hospital, Oswestry, SY10 7AG

A-0126 Non-operative treatment versus suture refixation of the nail plate in paediatric fingernail avulsion injuries

Daniel M Weber^{1,2}, Anja Gerstenberg¹, Markus Kalisch³, Michelle Seiler^{4,2}
¹ Division of Hand Surgery, University Children's Hospital Zurich, Zurich, Switzerland ² Children's Research Centre, University Children's Hospital Zurich, Zurich, Switzerland ³ Seminar for Statistics, ETH Zurich, Switzerland ⁴ Paediatric Emergency Department, University Children's Hospital Zurich, Zurich, Switzerland

Meet the Industry

Thursday, 17 June 2021 | 12:30 - 14:00 CEST (GMT+2) | Channel 1

Distal radius malunion

Free papers 06

Thursday, 17 June 2021 | 14:00 - 15:00 CEST (GMT+2) | Channel 1

Chair: Guy Rubin

A-0371 Distal radius fracture detection with convolutional neural network

Turkka Anttila¹, Teemu Karjalainen², Eero Waris¹, Nina Lindfors¹, Miika Leminen^{3,4}, Teemu Mäkelä⁵, Jorma Ryhänen¹
¹Department of Hand Surgery, HUS Helsinki University Hospital and University of Helsinki, Helsinki, Finland; ²Department of Hand Surgery, Central Finland Central Hospital, Jyväskylä, Finland; ³Analytics and AI development services, IT Department, HUS Helsinki University Hospital, Helsinki, Finland; ⁴ Department of Otorhinolaryngology and Phoniatics, HUS Helsinki University Hospital and University of Helsinki, Helsinki, Finland; ⁵ Department of Radiology, HUS Helsinki University Hospital and University of Helsinki, Helsinki, Finland

A-0441 The keystone- lunate fossa fragment, volar displaced intra-articular distal radius fractures

Manikandar Srinivas Cheruvu¹, Debashis Dass¹, Gopikanthan Manoharan¹, David James Ford¹, Ibrahim Roushdi¹
¹Robert Jones and Agnes Hunt Orthopaedic Hospital, Oswestry, United Kingdom

A-0280 Follow up of Distal radius volar plating – No role for post-operative radiographs

Jefin Jose Edakalathur, Manikandar Srinivas Cheruvu, Simon J Pickard
Robert Jones and Agnes Hunt Hospital, Oswestry, United Kingdom

A-0350 The significance of the relative position of capitate to radius to restore the volar tilt angle in distal radius fractures

Hyunseok Seo, Joo-Yup Lee
Eunpyeong St. Mary's Hospital, Seoul, Republic of Korea

A-0488 The role of patient specific implants in complex 3D reconstructions of the distal forearm

Radek Kebrle^{1,2}, Niels Schep³, Martin Czinner^{1,2,4}

¹ Klinika Dr. Pírka, CZ ² Vysoké nad Jizerou, CZ ³ Maasstad Ziekenhuis, NL ⁴ Krajská nemocnice Liberec, CZ

A-0585 Corrective osteotomy for diaphyseal forearm malunions using 3D planning and patient-specific surgical guides: clinical and radiographical outcome in 30 patients with a minimum follow-up of 1 year

De Keyser P.-B.^{1,2}, Walschot L.³, Van Haver M.^{2,4}, Vanhees M.^{2,5}, Verstreken F.^{2,5}

¹ AZ Maria Middelaers, Gent, Belgium ² AZ Monica, Antwerp, Belgium ³ AZ St.-Maarten, Mechelen, Belgium ⁴ MoRe Institute, Antwerp, Belgium ⁵ Universitary hospital Antwerp, Antwerp, Belgium

A-0252 Fracture-dislocations of the forearm joint. A systematic review of the literature and a comprehensive locker-based classification system

Stefano Artiaco MD, Ph.D. sartiaco@cittadellasalute.to.it; Federico Fusini MD fusinif@hotmail.com; Arman Sard MD, asard@cittadellasalute.to.it; Elisa Dutto MD edutto@cittadellasalute.to.it; Matteo Ferrero MD, matteo.ferrero@hotmail.it; Bruno Battiston MD, Ph.D. bbattiston@cittadellasalute.to.it

Orthopaedic and Trauma Center, CTO Hospital, Turin, Italy

A-0616 Distribution of sensory nerve endings in the interosseous membrane of the forearm

Susanne Rein^{1, 2}, Mireia Esplugas³, Marc Garcia-Elias³, Thomas Magin⁴, Frank Siemers^{2,5}, Hubertus Philipps¹

¹ Department of Plastic and Hand Surgery, Burn Unit, Hospital Sankt Georg, Delitzscher Straße 141, 04129 Leipzig, Germany ² Martin-Luther-University, Halle-Wittenberg, Germany ³ Institut Kaplan, Hand and Upper Extremity Surgery, Paseo de la Bonanova 9, 08022, Barcelona, Spain ⁴ Division of Cell and Developmental Biology, Institute of Biology, University of Leipzig, Philipp-Rosenthal-Str. 55, 04103 Leipzig, Germany ⁵ Department of Plastic and Hand Surgery, Burn Unit, Trauma Center Bergmannstrost, Merseburger Straße 165, 06112 Halle (Saale), Germany

A-0312 Atypical fractures of the proximal ulna associated with long-term bisphosphonate therapy : Four cases of three patients

Park Sang-Eun, Kim Eung-Sic

Daejeon St Mary's Hospital, The Catholic University of Korea, Seoul, Korea

CMC Thumb 2 arthroplasty

Free papers 07

Thursday, 17 June 2021 | 14:00 - 15:00 CEST (GMT+2) | Channel 2

Chair: Uri Farkash

A-0290 Influence of the 1st carpometacarpal joint fusion on thumb-tip movement

Toshiyasu Nakamura¹, Yusuke Kawano², Mitsunori Tada³, Takeo Nagura²

¹ Department of Orthopaedic Surgery, International University of Health and Welfare, Tokyo, Japan; ² Department of Biomechanics, Keio University, Tokyo, Japan; ³ Digital Human Research Center, National Institute of Advanced Industrial Science and Technology, Tokyo, Japan

A-0627 Improved preservation of the pinch strength by the PyroDisk CMC thumb arthroplasty compared to trapeziectomy with interposition arthroplasty

Brigitte van der Heijden^{1,2}, Simone Donners³, Joris Teunissen², Arnold Schuurman³, Cecile van Laarhoven⁴

¹ Jeroen Bosch Ziekenhuis, Den Bosch, NL; ² Radboudumc, Nijmegen, NL; ³ UMCU, Utrecht, NL; ⁴ ErasmusMC, Rotterdam, NL

A-0032 Capsular resection or suture in thumb carpometacarpal joint implant arthroplasty?

Vanessa Reischenböck¹, Michael Oyewale², Miriam Marks², Stephan Schindele¹, Daniel B. Herren¹

¹ Department of Hand Surgery Schulthess Klinik, Zurich, Switzerland ² Department of Teaching, Research and Development Schulthess Klinik, Zurich, Switzerland

A-0156 Long term Results of Elektra prosthesis compared to resection-suspension arthroplasty for thumb carpometacarpal osteoarthritis

Stefan M Froschauer¹ Matthias Holzbauer¹ Oskar Kwasny¹ Julian A Mihalic¹ Dominik Duscher (1,2)

¹ Kepler University Hospital Linz, Department for Trauma Surgery and Sporttraumatology, Linz, Austria ² Eberhard Karls University, Department for Plastic, reconstructive and Hand Surgery, Tuebingen, Germany

A-0551 Pyrocardan implant arthroplasty for trapeziometacarpal osteoarthritis with a minimum follow-up of 5 years

Emanuele Gerace¹, Deborah Royaux², Etienne Gaisne², Ludovic Ardouin², Philippe Bellèmere²

¹ ASST Cremona, Lombardy, Italy; ² Institut de la Main Nantes-Atlantique, Saint Herblain, France

A-0491 Long-term follow-up of patients treated with pyrocarbon disc implant for thumb carpometacarpal osteoarthritis: the effect of disc position on outcomes measurements.

Janna S. E. Ottenhoff¹, Cecile. M.C.A. van Laarhoven^{1,2}, Mark van Heijl³, Arnold H. Schuurman¹, J. Henk Coert¹, Brigitte E.P.A. van der Heijden^{4,5}

¹ Department of Plastic, Reconstructive, and Hand Surgery, University Medical Center, Utrecht, The Netherlands. ² Department of Plastic, Reconstructive, and Hand Surgery, Erasmus Medical Center, Rotterdam, The Netherlands. ³ Department of Surgery, Hand and Wrist Unit, Diaconessenhuis, Utrecht, The Netherlands. ⁴ Department of Plastic and Hand Surgery, Jeroen Bosch Hospital, 's-Hertogenbosch, The Netherlands. ⁵ Department of Plastic Surgery, Radboud Medical Center, Nijmegen, The Netherlands.

A-0596 Dual-mobility touch prosthesis: A functional alternative in surgical treatment of painful thumb osteoarthritis: A prospective analysis with 41 prostheses

Florian Falkner^{1,2}, Arman Mahmut Tümkaya^{1,2}, Benjamin Thomas^{1,2}, Benjamin Panzram³, Ulrich Kneser^{1,2}, Leila Harhaus^{1,2}, Berthold Bickert^{1,2}

¹ Department of Hand, Plastic and Reconstructive Surgery, Burn Center, BG Trauma Center Ludwigshafen, Ludwig-Guttman-Strasse 13, 67071 Ludwigshafen, Germany ² Hand and Plastic Surgery, University of Heidelberg, Heidelberg, Germany ³ Center of Orthopaedics, Trauma Surgery and Paraplegiology, University of Heidelberg, Germany

A-0326 Revision of Arpe trapeziometacarpal arthroplasty by isolated head and linear exchange in 5 cases.

Nicolas Bigorre, Alexandre Petit, Jérôme Brunet, Yann Saint Cast, Guy Raimbeau

Centre de la Main, Angers, France

A-0057 Major complications associated with Trapeziometacarpal Total Arthroplasty (TMCA) in Valdecilla Hospital

Jose Antonio Fernández-Dívar, Manuel Sánchez, Higinio Ayala, Jose Couceiro, M de los Angeles De la Red, Fernando Javier Del Canto.

Hospital Universitario Marqués de Valdecilla, Santander, Spain.

CTS 2 / CuTS

Free papers 08

Thursday, 17 June 2021 | 14:00 - 15:00 CEST (GMT+2) | Channel 3

Chair: Stephanie Zielinski

A-0134 Evidence of Lumbrical muscle incursion into the Carpal Tunnel: An Ultrasonographical Study

Mohammed Nadar¹, Hanan Abdelaziz Amr², Asma M. Ali²

1. Occupational Therapy Department, Faculty of Allied Health Sciences, Kuwait University, Kuwait. 2. Radiology Department, Al-Razi Orthopedic Hospital, Kuwait.

A-0673 A prospective comparative study between Monocryl, Vicryl Rapide and Ethilon for skin closure in open carpal tunnel decompression

Dominique Hughes¹, Pauline McGee¹, Luca Lancerotto¹, Gillian Robertson¹, Claire Simpson¹, Dominique Davidson¹

¹ St John's Hospital, Livingston, UK

A-0560 Lacertus syndrome : Is it underdiagnosed? Does it exist?

Constantinos Kritiotis¹

¹ Iasis Private Hospital, Paphos, Cyprus

A-0300 Median nerve entrapment syndrome in the elbow and proximal forearm. Anatomic causes of compression and 55 cases series surgical treatment outcomes at seven years mean follow-up.

Clara Sos¹, Steven Roulet¹, Jacky Laulan¹; Guillaume Bacle^{1,2}

1 : Service de chirurgie orthopédique et traumatologique, unité de chirurgie de la main et des nerfs périphériques, Hôpital Trousseau, Centre Hospitalo-Universitaire, Tours, France 2 : UMR 1253, iBrain, Université de Tours, Inserm, Tours, France

A-0609 Work-related risk factors for ulnar nerve entrapment in the Northern Finland Birth Cohort of 1966.

Laura Miettinen¹, Jorma Ryhänen¹, Rahman Shiri², Jaro Karppinen^{3,4}, Jouko Miettunen^{3,5}, Juha Auvinen^{3,5,6}, Sina Hulkkonen¹

1 Department of Hand Surgery, Helsinki University Hospital and University of Helsinki, Finland. 2 Finnish Institute of Occupational Health, Helsinki, Finland. 3 Medical Research Center Oulu, Oulu University Hospital and University of Oulu, Oulu, Finland. 4 Finnish Institute of Occupational Health, Oulu, Finland. 5 Center for Life Course Health Research, University of Oulu, Oulu Finland. 6 Oulunkaari Health Center, Ii, Finland.

A-0187 Outcome of Simple Decompression of Primary Cubital Tunnel Syndrome based on Patient Reported Outcome Measurements

N.H.A. Mendelaar (1,2,3), C.A. Hundepool¹, L. Hoogendam (1,2,3), L.S. Duraku (1,3), D.M. Power⁴, E.T. Walbeehm (3,5), R.W. Selles (1,2), J.M. Zuidam¹, the Hand-Wrist Study Group

1. Department of Plastic, Reconstructive and Hand Surgery, Erasmus MC - University Medical Centre Rotterdam, The Netherlands 2. Department of Rehabilitation Medicine, Erasmus MC - University Medical Centre Rotterdam, The Netherlands 3. Hand and Wrist Centre, Xpert Clinic, The Netherlands 4. Birmingham Hand Centre, University Hospitals Birmingham, NHS Foundation Trust 5. Peripheral Nerve centre, Radboudumc, Nijmegen, the Netherlands

A-0284 Hyper-selective ulnar nerve neurectomy at the wrist, proximal to Guyon's canal, a point of technique that has been developed based on cadaveric dissections and the Oswestry experience of applying this procedure

Soha Sajid, Jefin Jose, Simon Pickard

Robert Jones and Agnes Hunt Orthopaedic Hospital, Oswestry, SY10 7AG

Outcome measurements

Free papers 09

Thursday, 17 June 2021 | 14:00 - 15:00 CEST (GMT+2) | Channel 4

Chair: Marjolein Mulders

A-0317 Test-Retest Reliability and Construct Validity of the Satisfaction with Treatment Result Questionnaire in Patients with Hand and Wrist Conditions: a Prospective Study

Willemijn De Ridder (1-4), Yara Van Kooij (1,2,4), Guus Vermeulen³, Harm Slijper (1-3), Ruud Selles (1,2), The Hand-Wrist Study Group Collaborators; Robbert Wouters (1,2,4)

1. Department of Plastic, Reconstructive and Hand Surgery, Erasmus MC, University Medical Center Rotterdam, Rotterdam, The Netherlands; 2. Department of Rehabilitation Medicine, Erasmus MC, University Medical Center Rotterdam, Rotterdam, The Netherlands; 3. Hand and Wrist Center, Xpert Clinic, The Netherlands; 4. Center for Hand Therapy, Handtherapie Nederland, Utrecht, The Netherlands.

A-0382 Predicting symptom improvement after carpal tunnel release: a machine learning approach

L Hoogendam (1,2,3), JAC Bakx (1,2,3), JS Souer³, HP Slijper³, the Hand Wrist study group, RW Selles (1,2)

1 Department of Plastic, Reconstructive and Hand Surgery, Erasmus MC, Rotterdam, The Netherlands; 2 Department of Rehabilitation Medicine, Erasmus MC, Rotterdam, The Netherlands; 3 Hand and Wrist Center, Xpert Clinic, the Netherlands;

A-0038 Measurement properties of the EQ-5D-5L questionnaire in patients after thumb carpometacarpal arthroplasty, rotator cuff repair or shoulder arthroplasty

Miriam Marks, Cécile Grobet, Laurent Audigé

Schulthess Klinik, Zurich, Switzerland

A-0528 Measurement properties of the Michigan Hand Outcomes Questionnaire: Rasch analysis of responses from a traumatic hand injury population

Maryam farzad, Joy Macdermid, Amirreza kachooei, Erfan Shafiee

School of Rehabilitation Science, McMaster University, Hamilton, Ontario Canada, 2. Roth McFarlane Hand and Upper Limb Centre, St. Joseph's Hospital, London, ON Canada Email: luze66269271@gmail.com

A-0633 A systematic review of health utilities and their derivation methods for hand conditions

Luke Geoghegan¹, Conrad J Harrison², Jeremy N Rodrigues^{2,3}

¹ Section of Vascular Surgery, Division of Surgery and Cancer, Imperial College London. London, UK ² Nuffield Department of Orthopaedics, Rheumatology and Musculoskeletal Sciences, University of Oxford. Oxford, UK ³ Department of Plastic, Reconstructive and Hand Surgery. Stoke Mandeville Hospital. Aylesbury, UK.

A-0329 Psychometric qualities of the PRWHE-DLV in patients with wrist complaints in secondary care.

E.J. Perpétua Alvino¹, P. Krastman³, J. Runhaar³, J.W. Colaris², G. Kraan¹, N. M.C. Mathijssen¹

1 Reinier de Graaf Groep, Delft, the Netherlands, Department of Orthopaedic Surgery. Reinier de Graafweg 5-11, 2625 AD Delft, the Netherlands. 2 Erasmus MC University Medical Center Rotterdam, Rotterdam, the Netherlands, Department of Orthopaedics. Department of General Practice. Room NA1920 PO Box 2040, 3000 CA Rotterdam, the Netherlands. 3 Erasmus MC University Medical Center Rotterdam, Rotterdam, the Netherlands, Department of General Practice. Room NA1911 PO Box 2040, 3000 CA Rotterdam, the Netherlands.

A-0366 Validation of Patient Rated Wrist/ Hand Evaluation: Confirmatory Factor analysis and Rasch analysis

Zee lu, Joy MacDermid, erfana Shafiee

Maryam Farzad, Post doctorate associate, School of Physical Therapy, Department of Health and Rehabilitation Sciences, University of Western Ontario. Roth McFarlane Hand and Upper Limb Centre, St. Joseph's Hospital, London, Ontario, Canada Assistant professor, Department of Occupational therapy, University of Social Welfare and Rehabilitation Sciences, Phone +12265032165, Email: mfarzad@uwo.ca

A-0318 Which Factors Independently Contribute to Satisfaction with Treatment Result Following Common Treatments for Hand and Wrist Conditions? A Large Cohort Analysis.

Willemijn De Ridder (1-4), Robbert Wouters (1,2,4), Lisa Hoogendam (1-3), Guus Vermeulen³, Harm Slijper (1-3), The Hand-Wrist Study Group Collaborators, Ruud Selles (1,2)

1. Department of Plastic, Reconstructive and Hand Surgery, Erasmus MC, University Medical Center Rotterdam, Rotterdam, The Netherlands; 2. Department of Rehabilitation Medicine, Erasmus MC, University Medical Center Rotterdam, Rotterdam, The Netherlands; 3. Hand and Wrist Center, Xpert Clinic, The Netherlands; 4. Center for Hand Therapy, Handtherapie Nederland, Utrecht, The Netherlands.

A-0427 Determination of the Minimally Important Change of the Michigan Hand outcomes Questionnaire in patients undergoing open trigger finger release

Jaimy Koopman^{1,2,3}, Yara van Kooij^{1,2,4}, Ruud Selles^{1,2}, Harm Slijper^{1,2,3}, Jeroen Smit³, Christianne van Nieuwenhoven¹, Robbert Wouters^{1,2,4}

1Department of Plastic, Reconstructive Surgery and Hand Surgery, Erasmus Medical Centre, Rotterdam, The Netherlands 2Department of Rehabilitation Medicine, Erasmus MC, University Medical Center Rotterdam, the Netherlands 3Hand and Wrist Center, Xpert Clinic, the Netherlands 4Center for Hand Therapy, Handtherapie Nederland, Utrecht, The Netherlands

A-0168 Psychometric qualities of the PRWHE-DLV in patients with wrist complaints in primary care.

Britt van Gorp¹, Patrick Krastman¹, Gerald Kraan³, Nina M.C. Mathijssen³, Sita M.A. Bierma-Zeinstra^{1,2}, Jos Runhaar¹

¹ Erasmus MC University Medical Center Rotterdam, Rotterdam, the Netherlands, Department of General Practice. Room NA1911 PO Box 2040, 3000 CA Rotterdam, the Netherlands. ² Erasmus MC University Medical Center Rotterdam, Rotterdam, the Netherlands, Department of Orthopaedics. Department of General Practice. Room NA1920 PO Box 2040, 3000 CA Rotterdam, the Netherlands. ³ Reinier de Graaf Groep, Delft, the Netherlands, Department of Orthopaedic Surgery. Reinier de Graafweg 5-11, 2625 AD Delft, the Netherlands.

Live surgery 2

Thursday, 17 June 2021 | 15:00 - 17:30 CEST (GMT+2) | Channel 1

Live surgery demonstration from Rotterdam with the participation of the international FESSH surgical team

Table 1: Radius (dorsal), Phalanx fractures

Table 2: Radius (palmar), Metacarpal fractures

Soft skills. New techniques beyond hand surgery Young European Hand Surgeons Session

Thursday, 17 June 2021 | 17:30 - 18:30 CEST (GMT+2) | Channel 1

Chair: Letizia Marengi

Social media in FESSH: Achievements and developments

Thursday, 17 June 2021 | 17:30 - 18:30 CEST (GMT+2) | Channel 2

Chair: Zafar Naqui

Journal session: Up to date statistics, best papers, editor in chief

Thursday, 17 June 2021 | 17:30 - 18:30 CEST (GMT+2) | Channel 3

Chair: Gürsel Leblebicioglu

A-0745 Is Dupuytren's disease really a 'disease of the Vikings'?

Dominic Furniss, Daniel J Lawson, Bruce Winney, Michael Ng

A-0746 The teratogenic effects of thalidomide on limbs

Neil Vargesson

A-0747 Controversies and best practices for acute scaphoid fracture management

Nina Suh, Ruby Grewal

A-0748 The outcome of bone graft surgery for nonunion of fractures of the scaphoid

Samer S. Mahmoud, Tim R. C. Davis, Michael Elvey, Ryckie G. Wade, Stephanie Spence, Alexia Karantana, Simon Robinson, Clare Rowan, Alex J. Nicholls, Mohannad B. Ammori

A-0749 FESSH 2017 Abstracts

A-0750 Selective denervation of the wrist for chronic pain: a systematic literature review

Kenneth W. T. K. Chin, Thomas M. van Gulik, Anton F. Engelsman, Simon D. Strackee

A-0751 Responsibilities of authors, institutes and journals on publication

Michel E. H. Boeckstyns, Jin Bo Tang

A-0754 FESSH 2015 Abstracts

A-0752 Recovery of rock climbing performance after surgical reconstruction of finger pulleys

D. Corcella, B. J. Chedal Bornu, A. Forli, A. Semere, F. Moutet, M. Bouyer

A-0753 Basal thumb osteoarthritis surgery improves health state utility irrespective of technique: a study of UK Hand Registry data

Matthew D. Gardiner, Robert Poulter, Dominic Furniss, Jennifer C. E. Lane, Jeremy N. Rodrigues, Edward Burn

A-0766 Clinical measurement of the dart throwing motion of the wrist: variability, accuracy and correction

Gavin Brigstocke, Vasiliki Vardakastani, Hannah Bell, Angela E. Kedgley, Sarah Mee

A-0767 Patient's satisfaction beyond hand function in Dupuytren's disease: analysis of 1106 patients

Steven E. R. Hovius, Yara E. van Kooij, Harm P. Slijper, Ralph Poelstra, Mark J. W. van der Oest, Ruud W. Selles

Meet the Industry

Thursday, 17 June 2021 | 18:30 - 19:00 CEST (GMT+2) | Channel 1

DRF malunion

Nation Competition 1

Thursday, 17 June 2021 | 19:00 - 19:30 CEST (GMT+2) | Channel 1

Chair: Frederik Verstreken

Topics: 2D, 3D, close with voting

**SLAC/SNAC wrist
Nation Competition 2**

Thursday, 17 June 2021 | 19:30 - 20:00 CEST (GMT+2) | Channel 1
Chair: Brigitte van der Heijden

Topic: PRC, LCTH/LC arthrodesis, close with voting

**Scaphoid Nonunion
Nation Competition 3**

Thursday, 17 June 2021 | 20:00 - 20:30 CEST (GMT+2) | Channel 1
Chair: Geert Buijze

Topic: Open approach, Arthroscopic approach, close with voting

**DRU instability
Nation Competition 4**

Thursday, 17 June 2021 | 20:30 - 21:00 CEST (GMT+2) | Channel 1
Chair: Jan-Ragnar Haugstvedt

Topic: TFCC reinsertion (opne/scopic), TFCC reconstruction, close with voting

**CMC arthritis
Nation Competition 5**

Thursday, 17 June 2021 | 21:00 - 21:30 CEST (GMT+2) | Channel 1
Chair: Daniel Herren

Topic: resection arthroplasty, hemi-hamate, close with voting

**Neuroma
Nation Competition 6**

Thursday, 17 June 2021 | 21:30 - 22:00 CEST (GMT+2) | Channel 1
Chair: Maurizio Calcagni

Topic: burry, flap coverage, close with voting

Instructional Course 2

Friday, 18 June 2021 | 07:00 - 09:00 CEST (GMT+2) | Channel 1

A-0709 Finger joints

Daniel Herren

A-0710 Thumb CMC

Filip Stockmans

A-0711 Midcarpal joints

Eva Baur, Riccardo Luchetti

A-0712 Radiocarpal and DRU joint

Michel Boeckstyns

A-0713 UCL ligament of thumb

Mike Ruettermann

A-0714 SL ligament

Alex Lluch

A-0715 DRUJ: TFCC

Andrea Atzei, Greg Bain

A-0716 Dupuytren

Paul Werker, Ilse de Greef

A-0717 Fingertip injuries

Maurizio Calcagni

Live surgery 3

Friday, 18 June 2021 | 09:00 - 11:30 CEST (GMT+2) | Channel 1

Live surgery demonstration from Rotterdam with the participation of the international FESSH surgical team

Table 1: Scaphoid (percut), Nerve reconstruction

Table 2: Scaphoid (open), Nerve pain

Scaphoid

Free papers 10

Friday, 18 June 2021 | 11:30 - 12:30 CEST (GMT+2) | Channel 1

Chair: Shai Luria

A-0464 A review of 1321 patient-reported treatment injuries to the Norwegian System of Patient Injury Compensation 2007-2017 - Scaphoid fractures need a special focus.

Hebe Désirée Kvernmo^{1,2}, Sunniva Martine Kolstad Addison¹, Arnfinn Hykkerud³, Lise Balteskard³, Ida Rashida Khan Bukholm^{4,5}

¹ Faculty of Health Sciences, University of Tromsø - Arctic University of Norway ² Hand Unit, Department of Orthopaedic Surgery, Northern Norway University Hospital ³ Centre for Clinical Documentation and Evaluation, Northern Norway Regional Health Authority ⁴ The Norwegian System of

Patient Injury Compensation⁵ Norwegian University of Life Sciences

A-0193 Wrist Angle Measurements in Predicting the Presence of a Scaphoid Fracture

Ronit Wollstein¹, Jacob Becker¹, Andrew Brash¹, Raj Karia¹, Shai Luria²

¹ NYU Langone School of Medicine ² Hadassah Medical Center

A-0198 Predictors and Functional Impact of Scaphoid Malunion

Jill Putnam, Kayla Pfaff, Jeffrey Yao

Stanford University

A-0618 Clinical dilemma: Should we operate patients with scaphoid nonunion and good preoperative PRWHE scores to prevent progressive osteoarthritis?

Abigael Cohen¹, Max Reijman¹, Ruud W Selles¹, Steven E R Hovius², the Hand-Wrist Study Group Collaborators, Joost W Colaris¹

¹ Erasmus MC, Rotterdam, the Netherlands ² Xpert Clinic, Hand and Wrist Surgery, the Netherlands

A-0220 Pedicled vascularized bone graft for 100 refractory scaphoid nonunions

Keikichi Kawasaki¹, Takeshi Sakai¹, Wakako Sakamoto¹, Takuma Kuroda², Sadaaki Tsutsui², Gaku Niizuma², Tetsuya Nemoto², Kazutoshi Kubo³, Tomohiro Yasuda⁴, Katsunori Inagaki²

¹Showa University Yokohama Northern Hospital, Yokohama, Japan ²Showa University, Tokyo, Japan ³Showa University Koutou Toyosu Hospital, Tokyo, Japan ⁴Showa University Fujigaoka Hospital, Yokohama, Japan

A-0578 Two Headless Compression Screw or Angular Stable Plate fixation in Scaphoid Nonunions

Stefan Quadlbauer^{1,2,3}, Christoph Pezzej¹, Thomas Beer¹, Rudolf Rosenauer^{1,2,3}, Josef Jurkowsch¹, T. Hausner^{1,2,3}, M. Leixnering¹

¹ AUVA Trauma Hospital Lorenz Böhler, Vienna, Austria ² Ludwig Boltzmann Institute of Experimental and Clinical Traumatology, AUVA Research Center, Vienna, Austria ³ Austrian Cluster for Tissue Regeneration, Vienna, Austria

A-0086 Scaphoid Nonunion Management with Headless Screw versus Volar Locking Plate Fixation: A Meta-Analysis

DUNCAN VAN NESS, ASIF ILYAS

The Rothman Institute at Thomas Jefferson University Philadelphia, PA, USA

A-0454 Arthroscopic grafting of scaphoid nonunion – A Retrospective study of 32 cases.

Simon Rattier¹, MD, simonrattier15@gmail.com Emmanuel David¹, MD, david.emmanuel@chu-amiens.fr Benjamin Haddad¹, MD, haddad.benjamin@chu-amiens.fr Axel Van Vliet¹, MD, axelvanvliet@gmail.com Vittorio Ferrari^{1,2}, MD, vittofer@gmail.com Thierry Aihonou², MD, taihon02@yahoo.fr Vladimir Rotari^{1,2}, MD, rotarivd@gmail.com

1- Centre Hospitalo Universitaire Amiens Picardie, France 2- Clinique Victor Pauchet, Amiens, France

A-0221 Evaluation of outcomes in patients following arthroscopically assisted surgery of scaphoid nonunion

Hossein Saremi¹ Abbas bidabadi²

1.Hamadan university of Medical sciences, Hamadan, Iran 2. Chamran hospital, Borujerd, Iran

A-0517 Is Adaptive Proximal Scaphoid Implant (APSI) a valid option for SNAC wrist also in young patients? A case series

Vincent Mazzone¹, Marco D'Orto², Arturo Militero¹, Federico Terribile³, Rocco De Vitis¹

¹Fondazione Policlinico Universitario A. Gemelli IRCCS, Largo Agostino Gemelli 8, 00168, Roma, Italia. ² Università Cattolica del Sacro Cuore, Largo Francesco Vito 1, 00168 Roma, Italia. ³ Dipartimento di Ortopedia e Traumatologia, ASST - Ospedale Maggiore, Largo Dossena 2, 26013 Crema, Italia.

Education / skill / biomechanics / tendon repair

Free papers 11

Friday, 18 June 2021 | 11:30 - 12:30 CEST (GMT+2) | Channel 2

Chair: Simon Farnebo

A-0504 MENTORSHIP IN HAND SURGERY: CROSS-SECTIONAL SURVEYS OF MENTORS AND MENTEES

Dominique Hughes¹ Helen Wohlgemut¹ Andrew Hart¹ Jeffrey Janis²

¹ Canniesburn, Plastic Surgery Unit, Glasgow Royal Infirmary ² Ohio State University

A-0119 Practice makes perfect: A review of published tendon trainer repair models.

Zak Vinnicombe¹, Christian M. Asher², Jonathan Super³, Nicola Bystrzonowski⁴, Eyfrossini Katsarma²

¹ St. George's Hospital, London, UK; ² Chelsea and Westminster Hospital, London, UK; ³ Maidstone and Tunbridge Wells NHS Trust, Kent, UK; ⁴ The Royal London Hospital, London, UK.

A-0670 What benefits can be expected from the improvement of surgeon-patient relationships? A literature review.

C Girault¹, C Chaves², T Dubert²

¹ Réseau Prévention Main Ile de France, Paris, France ² Hôpital privé Paul'Egine, Champigny sur marne, France

A-0434 Hand motion analysis of functional tasks – repeatability and marker visibility

Gabriella Fischer¹, Lisa Reissner^{1,2}, Renate List³, Diana Jermann⁴, Maurizio Calcagni¹

¹ University Hospital Zurich, Switzerland; ² Balgrist University Hospital, Zurich, Switzerland ³ Human Performance Lab, Schulthess Clinic, Zurich, Switzerland; ⁴ Institute for Biomechanics, ETH Zurich, Switzerland

A-0171 The upper limb falling reflex; the dynamics of how we fall

Grey Giddins Hugo Giddins

Royal United Hospitals, Bath, BA1 2BT

A-0567 Biomechanical study of wrist pain and instability in Ehlers-Danlos Syndrome

Authors: Marta Jokiel (1,2), Piotr Czarnecki¹, Ewa Bręborowicz¹, Aleksandra Bartkowiak¹, Anna Wachowiak¹, Leszek Romanowski¹

Traumatology, Orthopedics and Hand Surgery Department Poznan, University of Medical Sciences 2. Physiotherapy Clinic, Poznan University of Medical Sciences

Traumatology, Orthopedics and Hand Surgery Department, Poznan University of Medical Sciences

A-0401 Evaluation of the effects of donor muscle strength and wrist range of movement in restoring finger extension using computer modelling

Joanne Laing J¹, Simon Pickard², Dimitra Blana¹, Ed Chadwick¹

¹ School of Engineering, University of Aberdeen ² Robert Jones Agnes Hunt Orthopaedic Hospital, Oswestry, United Kingdom

A-0323 Another modification of the side-to-side suture technique

Katalin Muraközy¹, Henrik Rybaltovszki², Sándor Manó²

¹ Kenézy University Hospital of Debrecen, Hungary; ² University of Debrecen, Hungary

A-0658 Using elastic vessel loops to determine the passive tension at which tendon transfers are set for radial nerve palsy

Nikita Blake¹, Craig Andrew Blake², Gideon Francois van Staden², Corne Pieter Gustav Nel¹

¹ Department of Plastic and Reconstructive Surgery, University of the Free State, Bloemfontein, South Africa; ² Department of Orthopaedic Surgery, University of the Free State, Bloemfontein, South Africa

Dupuytren

Free papers 12

Friday, 18 June 2021 | 11:30 - 12:30 CEST (GMT+2) | Channel 3

Chair: David Warwick

A-0105 Dupuytren's disease in the UK: Prevalence, incidence, and lifetime risk of surgical intervention - A population-based cohort analysis

Dieuwke Broekstra (1,2) Rachel Kuo¹ Edward Burn¹ Daniel Prieto-Alhambra¹ Dominic Furniss¹

¹ University of Oxford, Nuffield Department of Orthopaedics, Rheumatology and Musculoskeletal Sciences, Oxford, United Kingdom ² University of Groningen, University Medical Center Groningen, Department of Plastic Surgery, Groningen, the Netherlands

A-0443 Changing patterns of treatment for Dupuytren's contracture - a retrospective and economic study of the introduction of needle fasciotomy in western Sweden 2010-2018.

Joakim Strömberg^{1,2}, Martin Byström,^{2,3} Johanna Nilsson¹, Anna Zachrisson⁴, Per Holmdahl⁵

1. Department of Orthopedics and General Surgery, Alingsås lasarett, Sweden 2. Department of Orthopaedics, Sahlgrenska Academy, University of Gothenburg, Sweden 3. Department of Hand Surgery, Sahlgrenska University Hospital, Gothenburg, Sweden 4. Department of Orthopedics and General Surgery, Kungälv's sjukhus, Sweden 5. SportMed clinic, Carlanderska Hospital, Gothenburg, Sweden

A-0058 Genetic risk predictors of clinical characteristics and recurrence of Dupuytren disease

Sophie Riesmeijer¹, Ilja Nolte¹, Paul Werker¹, Roel Ophoff²

¹ University of Groningen, University Medical Center Groningen, Groningen, The Netherlands. ² University of California Los Angeles, Center for Neurobehavioral Genetics, California, United States of America.

A-0332 Study of Dupuytren's contracture in Japan

Masashi Matsuta, Kaoru Tada, Shinji Miwa, Mika Nakada, Atsuro Murai, Yuta Nakamura, Hiroyuki Tsuchiya
Department of Orthopaedic Surgery, Graduate School of Medical Science Kanazawa University

A-0345 Limited progression of subclinical Dupuytren's disease: results from a prospective cohort study

Bente van den Berge, Paul Werker, Dieuwke Broekstra
University Medical Center Groningen, Groningen, the Netherlands

A-0513 Pushing boundaries in using collagenase: two step technique for severe Dupuytren disease

M.Bertolini, F.Giacalone, E.Dutto, B.Battiston
Hand Surgery Department, Città della salute e della Scienza di Torino, Turin, Italy

A-0403 No difference in recurrence rate and sustained straightness between collagenase treatment and needle fasciotomy for Dupuytren's Contracture - a five-year follow-up of a randomized study

Martin Byström ^{1,3}, Allan Ibsen ¹, Kristian Samuelsson ^{2,3}, Jan Fridén ^{2,4} Joakim Strömberg ^{3,5}
1. Department of Hand Surgery, Sahlgrenska University Hospital, Gothenburg, Sweden 2. Department of Orthopaedics, Sahlgrenska University Hospital, Göteborg, Sweden 3. Department of Orthopaedics, Sahlgrenska Academy, University of Gothenburg, Sweden 4. Swiss Paraplegic Centre, Nottwil, Switzerland 5. Department of Orthopedics and General Surgery, Alingsås lasarett, Sweden

A-0470 A randomised, double-blind, placebo-controlled study of celecoxib after collagenase injection for patients with Dupuytren's contracture at high risk of recurrence

Maarten VanNuffel, Pieter Reyniers, Jaak Warlop, Ilse Degreef
University Hospitals Leuven, Leuven, Belgium

DRUJ

Free papers 13

Friday, 18 June 2021 | 11:30 - 12:30 CEST (GMT+2) | Channel 4

Chair: Angel Ferreres

A-0067 Long-term outcome of distal oblique bundle reinforcement for chronic bidirectional DRUJ instability after TFCC injury.

Pascal Hannemann, Jan Ten Bosch
Maastricht University Medical Center, Maastricht, Netherlands

A-0570 Biomechanical comparison of modified Adams-Berger and DX technique in DRUJ reconstruction

Istvan Zoltan Rigo ^{1,2} Felix Riano ³ Robert Kalapos ³ Jan-Ragnar Haugstvedt ^{1,2}
¹ Ostfold Hospital Trust, Moss, Norway ² Oslo Hand Center, Norway ³ Arthrex Inc., Naples, FL, USA

A-0292 The effect of TFCC injury and ulnar styloid fracture on the DRUJ stability in the distal radius fractures -The evaluation using DRUJ arthroscopy-

Yoshihiro Dohi
Yao Tokushukai General Hospital, Yao, Japan

A-0390 Factors associated with the return to work after ulna shortening osteotomy: a sample of 104 consecutive patients.

JS Teunissen ¹, R Feitz (1,2), S Al Shaer ³, SER Hovius (1,2), RW Selles (4,5), EPA van der Heijden (1,6)
¹ Department of Plastic surgery, Radboudumc, Nijmegen, The Netherlands; ² Hand and Wrist Center, Xpert Clinic, The Netherlands; ³ Department of Plastic surgery, Ziekenhuisgroep Twente, Almelo, The Netherlands; ⁴ Department of Plastic, Reconstructive and Hand Surgery, Erasmus MC, Rotterdam, The Netherlands; ⁵ Department of Rehabilitation Medicine, Erasmus MC, Rotterdam, The Netherlands; ⁶ Department of Plastic surgery, Jeroen Bosch Ziekenhuis, 's-Hertogenbosch, The Netherlands

A-0388 Illness perception is associated with pain and function in patients with ulnar impaction syndrome scheduled for ulna shortening osteotomy: a cross-sectional study

JS Teunissen ¹, MJW van der Oest (2,3), DE van Groeninghen ¹, R Feitz (1,3), SER Hovius (1,3), EPA van der Heijden (1,4)
¹ Radboud University Medical Centre, Radboud Institute for Health Sciences, Department of Plastic Surgery, Nijmegen, The Netherlands; ² Department of Plastic, Reconstructive and Hand Surgery, Erasmus MC, University Medical Centre Rotterdam, Rotterdam, The Netherlands; ³ Hand

and Wrist Centre, Xpert Clinic, The Netherlands; ⁴ Department of Plastic Surgery, Jeroen Bosch Ziekenhuis, 's-Hertogenbosch, The Netherlands

A-0426 Are there Advantages of Partial Ulnar Head Prostheses compared to Total Ulnar Head Prostheses?

Lea Estermann, Lisa Reissner, Ladislav Nagy
Balgrist University Hospital, Zurich, Switzerland

Elbow / Humerus

Free papers 14

Friday, 18 June 2021 | 11:30 - 12:30 CEST (GMT+2) | Channel 5

Chair: Jan Debeij

A-0378 Clinimetric Testing of the Persian version of the Patient-Rated Tennis Elbow Evaluation (PRTEE) and the Disabilities of the Arm, Shoulder, and Hand (DASH) Questionnaires in Patients with Lateral Elbow Tendinopathy

Maryam Farzad, Joy C MacDermid BScPT Erfan shafiee
M.D, Orthopedic hand surgeon, Tehran University of medical sciences. Imam Hospital. joint reconstruction research center

A-0654 Endoscopic Treatment of Lateral Epicondylitis: A Cadaveric Study

Justin Mirza, Ather Mirza, Luke Zappia, Terence Thomas
Mirza Orthopedics, Smithtown, NY, USA

A-0340 Lateral epicondylitis: ultrasound release versus arthroscopic release: a short retrospective series.

Olivier Mares¹ Karim Latrech¹, Alexandre Laborde¹, Pascal Kouyoumdjian¹, Remy Coulomb¹ MD, Thomas Aparad² rnrnrn
¹CHU de Nimes, Francern² Cabinet d'échochirurgie Versailles France

A-0687 Arthroscopic Recession of the ECRB for Surgery of Tennis Elbow

¹Mohamad Behazin ² Amir R. Kachooei, MD (Corresponding author) ³Babak Shojaie
¹ Orthopedic Research Center, Mashhad University of Medical Sciences, Mashhad, Iran ² Orthopedic Research Center, Mashhad University of Medical Sciences, Mashhad, Iran Hand Surgery Division, Rothman Institute, Philadelphia, Pennsylvania, USA ³orthopädie Research Zentrum, St. Marienstift Hospital, Friesoythe, Germany

A-0085 Comparing Heterotopic Ossification Prophylaxis Options for Elbow Trauma: A Meta-Analysis

JEFFREY HESTENBURG, ASIF ILYAS
The Rothman Institute at Thomas Jefferson University Philadelphia, PA, USA

A-0140 Surgical management of persistent dislocation of ulnohumeral joint after failed surgery for fracture-dislocation of the elbow

Young Ho Lee ¹, Goo Hyun Baek ¹, Jihyeung Kim ¹, Ji Sup Hwang ¹, Jung Eun Lee ²
¹ Seoul National University Hospital, Seoul, South Korea ² Gachon Gill Hospital, Gyeonggi-do, South Korea

A-0691 Mid-Term Results of Patient-Specific Polymethylmethacrylate Radial Head Prosthesis in Complex Radial Head Fractures: Report of 8 Patients

1. Amir R. Kachooei, (Corresponding author) 2. Mohammadreza Maydanshahi, 3. Ashkan Sedigh, 4. Mohamad Zohoori, 5. Mohammad H. Ebrahimzadeh, 6. Denise Eygendaal, 7. Babak Shojaie
1) Rothman Institute, Thomas Jefferson University, Philadelphia, PA, 2) 4) 5) Orthopedic Research Center, Mashhad University of Medical Sciences, Mashhad, Iran 3) Rothman Institute, Jefferson Medical College, Philadelphia, PA, USA 6) Department of Orthopedic Surgery, Amphia Hospital, Breda, the Netherlands Department of Orthopedic Surgery, Academic Medical Center, University of Amsterdam, Amsterdam, the Netherlands 7) Orthopedic Research Center, St. Marienstift Hospital, Friesoythe, Germany

A-0259 Time until union in Absolute vs. Relative Stability in 12A1 and 12A2 humeral fractures

Ignacio Rellán ¹, Gerardo Luis Gallucci ¹, Agustin Guillermo Donndorff ¹, Pablo De Carli ¹, Ezequiel Ernesto Zaidenberg ¹, Marc Joseph Richard ², Jorge Guillermo Boretto ¹
¹ Department of Orthopaedics, Hospital Italiano de Buenos Aires, Buenos Aires, Argentina Instituto de Ortopedia y Traumatología "Carlos E. Ottolenghi," Potosí 4215 (C1199ACK), Buenos Aires, Argentina ² Department of Orthopaedic Surgery, Division of Hand, Upper Extremity, and Microvascular Surgery, Duke University Medical Center, 4709 Creekstone Drive, Suite 200, Durham, NC 27703, USA.)

Meet the Industry

Friday, 18 June 2021 | 12:30 - 14:00 CEST (GMT+2) | Channel 1

Fractures metacarpal /phalanges

Free papers 15

Friday, 18 June 2021 | 14:00 - 15:00 CEST (GMT+2) | Channel 1

Chair: Pascal Hannemann

A-0563 Acute injuries to the ulnar collateral ligament of the thumb: a systematic literature review of diagnostic studies

Nicholas G Rabey¹, Jordan Oldbury², Neal Thurley³, Benjamin J Dean⁴

¹ University Hospital Coventry, UK; ² Ninewells Hospital, Dundee, UK; ³ Bodleian Library, University of Oxford, UK; ⁴ NDORMS, Nuffield Orthopaedic Centre, Oxford, UK;

A-0164 Intramedullary screw fixation of metacarpal and phalangeal fractures – a systematic review of 682 patients

Rémy Liechti¹, Armin Pallaver¹, Fabrizio Fiumedinisi¹, Bryan Van de Wall¹, Frank Beeres¹, Thomas Giesen¹, Urs Hug¹

¹ Cantonal Hospital of Lucerne, Switzerland

A-0679 Antegrade intramedullary nailing in comminuted, open metacarpal bone fracture

Soo Min Cha¹ Hyun Dae Shin¹ Seung Hoo Lee¹ Jae Hoon Yang²

¹ Chungnam National University School of Medicine, Daejeon, South Korea ² Centum Hospital, Daejeon, South Korea

A-0088 Intramedullary Screw Fixation of Metacarpal Fractures: An Anatomic Analysis for Optimal Screw Choice

MICHAEL OKOLI, ASIF ILYAS, CHRISTOPHER JONES

The Rothman Institute at Thomas Jefferson University Philadelphia, PA, USA

A-0150 High-energy, focussed shock wave therapy (ESWT) for delayed bone healing or non-union of forearm and hand

Marion Mühldorfer-Fodor, Eva Liedl, Jörg van Schoonhoven, Karl Josef Prommersberger

Klinik für Handchirurgie des Rhön-Klinikum Campus Bad Neustadt, Germany

A-0641 Gunshot injuries of the hand: fractures of the metacarpal bones with defects along the diaphysis and their treatment in a specialized center

Daragan R.¹, Tovstograi V.², Kondrashova I.¹

«City Clinical Hospital»¹, «Dnipro Railway Clinical Hospital»² Dnipro, Ukraine

A-0383 Indication extent for posttraumatic mutilated hand reconstruction by microsurgical toe transfer

Stamate T.¹, Mazilu G.¹, Atănăsoae I.¹, Stamate Mariana², Hrișcă T.¹, Topa I.¹

¹ University of Medicine and Pharmacy “Gr.T.Popa” , Iasi, Romania ² Laboratory of Neurophysiology, Neurosurgery Hospital, , Iasi, Romania

A-0503 Pedicled partial FDS muscle flap for coverage of Median nerve in the distal forearm

Kebrle Radek^{1,2} Martin Czinner^{1,2,3} Tomas Hellmuth²

¹ Klinika Dr. Pírka Mlada Boleslav ² UPCHR Vysoke nad Jizerou ³ Nemocnice Liberec

A-0428 Use of the Keystone Design Perforator Island Flap for Reconstruction of Upper Limb Defects

Nikolovska Bisera, Georgieva Gordana, Srbov Blagoja, Jovanovska Katerina, Pejкова Sofija

University Clinic for Plastic and Reconstructive Surgery, Skopje, North Macedonia

A-0619 Reconstruction of finger defects with free mini-flaps

Olesea Catarau^{1,2}, Maxim Melenciuc^{1,2}, Anatolie Calistru¹

¹ Institute of Emergency Medicine, Chisinau, Republic of Moldova ² SUMPh Nicolae Testemitanu, Chisinau, Republic of Moldova

Tendon / Pulley

Free papers 16

Friday, 18 June 2021 | 14:00 - 15:00 CEST (GMT+2) | Channel 2

Chair: Zaf Naqui

A-0245 Biomechanical evaluation comparing Pulvertaft weave and Side-to-Side tenorrhaphy using porcine tendons

Soha Sajid, Emily Day, Jan Herman Kuiper, Rohit Singh, Simon Pickard
Robert Jones and Agnes Hunt Orthopaedic Hospital, Oswestry, SY10 7AG

A-0128 Biomechanical analysis of a single-sided locking side-to-side suture technique for tendon transfers

Jaimy Koopman¹, Caroline Hundepool¹, Liron Duraku¹, Mick Kreulen², Michiel Zuidam¹
¹ Department of Plastic, Reconstructive Surgery and Hand Surgery, Erasmus Medical Centre, Rotterdam, The Netherlands ² Department of Hand Surgery, Rode Kruis Ziekenhuis, Beverwijk, The Netherlands

A-0238 A systematic review of outcome measurement in studies of adult hand flexor tendon injury

Abigail V Shaw¹, David GW Holmes², Matthew D Gardiner^{3,4}, Jeremy N Rodrigues^{1,4}, Jennifer CE Lane⁴, Justin CR Wormald⁴
¹ Department of Plastic & Reconstructive Surgery, Stoke Mandeville Hospital, Aylesbury, UK; ² Department of Trauma & Orthopaedic Surgery, Leighton Hospital, Crewe, UK; ³ Department of Plastic & Reconstructive Surgery, Wexham Park Hospital, Slough, UK; ⁴ Nuffield Department of Orthopaedics, Rheumatology and Musculoskeletal Science (NDORMS), University of Oxford, Oxford, UK

A-0070 Alternative for two-stage tendoplasty in treatment of chronic tendon flexor digitorum profundus injury in no-man's land

Aleksandr Zenchenko
Gomel Regional Clinical Hospital (Gomel, Belarus)

A-0044 Evaluation of Re-adhesion and Flexion Contracture After Flexor Tenolysis

Kaoru Tada¹, Masashi Matsuta¹, Atsuro Murai¹, Yuta Nakamura¹, Hiroyuki Tsuchiya¹
¹ Department of Orthopaedic Surgery, Graduate School of Medical Science, Kanazawa University

A-0236 SORL-reverse procedure: a dynamic tenodesis to restore distal interphalangeal joint flexion in chronic flexor digitorum profundus lesions. A cadaveric study

Andrea Poggetti Nucci Anna Maria Biondi Marco Pfanner Sandra
Hand and Reconstructive Microsurgery Unit, AOU Careggi-CTO, Florence, Italy

A-0107 Flexor pulley reconstruction – clinical results for chronic cases: 5-years follow-up

Simon Oeckenpöhler, Valerie Nottberg, Johanna Ueberberg, Britta Wieskötter, Martin Langer
University Hospital Münster - Department for Trauma-, Hand- and Reconstructive Surgery, Münster, Germany

A-0566 Passive mobilisation with place-and-hold versus active motion therapy after flexor tendon repair – a randomised trial

Sara Chevalley, Maria Tenfält, Martina Åhlén, Joakim Strömberg
Department of Hand Surgery, Sahlgrenska University Hospital, Gothenburg Sweden

A-0228 A new technic of mobilisation after the lesion of the extensor apparatus at the level of the medial band with surgery protocol

Jean-Claude Rouzaud, Jean-Luc Roux, Gero Meyer Zu Reckendorf, Suheyla Barthes, Bouali Amara, Frédéric Dusserre, Manuel Valverde, Jennifer Soret, Célia Boukari, Yves Allieu
Institut Montpelliérain de la Main, Clinique Saint-Roch, Montpellier, France

A-0020 Repair of ruptured extensor pollicis longus with running interlocking horizontal mattress suture technique

Satoshi Usami, Sanshiro Kawahara, Masashi Takemitsu, Kohei Inami.
Tokyo Hand Surgery ampersand Sports Medicine Institute, Takatsuki Orthopaedic Hospital, Tokyo, Japan.

Nerve experimental / Allograft

Free papers 17

Friday, 18 June 2021 | 14:00 - 15:00 CEST (GMT+2) | Channel 3

Chair: Esther Vögelin

A-0173 Alterations in Myelinisation of the Painful Nerves, Proximal to the Site of Injury

Elisabeth Maria Brakkee¹, Wim Van Hecke¹, Erick DeVinney², Henk Coert¹

¹ University Medical Center Utrecht, the Netherlands, ² AxoGen, Alachua, Florida, United States

A-0247 Enhancing Acellular Nerve Allografts with Mesenchymal Stem Cells and Surgical Angiogenesis Improves Immune Response and Revascularization

Meiwand Bedar, Tiam M. Saffari, Allen T. Bishop, Alexander Y. Shin

Department of Orthopedic Surgery, Division of Microvascular and Hand Surgery, Mayo Clinic, Rochester, MN, USA

A-0463 The effect of stem cells and local tacrolimus on neurite extension

Sara Saffari ^{1,2}, Tiam M. Saffari ^{1,2}, Katelyn Chan ^{3,4}, Gregory H. Borschel ³, Alexander Y. Shin ¹

¹ Division of Hand and Microvascular Surgery, Department of Orthopedic Surgery, Mayo Clinic, Rochester, MN, USA; ² Department of Plastic-, Reconstructive- and Hand Surgery, Radboud University, Nijmegen, the Netherlands; ³ Division of Plastic and Reconstructive Surgery, The Hospital for Sick Children, Toronto, Ontario, Canada; ⁴ Institute of Biomaterials and Biomedical Engineering, University of Toronto, Toronto, Ontario, Canada

A-0404 Surgical Angiogenesis Modifies the Cellular Environment of Decellularized Nerve Allografts in a Rat Sciatic Nerve Defect Model

Tiam Mana Saffari ^{1,2}, Femke Mathot, ^{1,2}, Allen T. Bishop ¹, Andre J. van Wijnen ^{1,3}, Alexander Y. Shin ¹

¹ Mayo Clinic, Department of Orthopedic Surgery, Minnesota, USA ² Radboud University, Nijmegen, the Netherlands ³ Mayo Clinic, Department of Biochemistry and Molecular Biology, Minnesota, USA

A-0400 Microcomputed analysis of nerve angioarchitecture after combined stem cell delivery and surgical angiogenesis to nerve allograft

Tiam Mana Saffari ^{1,2}, Femke Mathot ^{1,2}, Allen T. Bishop ¹, Alexander Y. Shin ¹

¹ Mayo Clinic, Minnesota, USA ² Radboud University, Nijmegen, The Netherlands

A-0069 Peripheral Nerve Regeneration with Enhanced Nerve Autograft using Adipose-derived Stem Cell Sheets

Atsuro Murai, Kaoru Tada, Mika Nakada, Masashi Matsuta, Yuta Nakamura, Hiroyuki Tsuchiya

Department of Orthopaedic Surgery, Graduate School of Medical Science Kanazawa University, Kanazawa, Ishikawa, Japan.

A-0045 Peripheral Nerve Regeneration Using an Adipose-Derived Stem Cell Sheet

Kaoru Tada ¹, Atsuro Murai ¹, Mika Nakada ¹, Masashi Matsuta ¹, Yuta Nakamura ¹, Katsuhiro Hayashi ¹, Hiroyuki Tsuchiya ¹

¹ Department of Orthopaedic Surgery, Graduate School of Medical Science, Kanazawa University

A-0524 Recovery of Sensory and Motor Function after Median Nerve Reconstruction with Processed Nerve Allograft

Bauck Safa ¹, Jason Nydick ², Brendan J MacKay ³, Wojciech Przylecki ⁴, Mihir J. Desai ⁵, Leon Nesti ⁶, Gregory Buncke ¹

¹ The Buncke Clinic, San Francisco, USA; ² Florida Orthopedic Institute, Tampa USA; ³ Texas Tech University Health Sciences Center, Lubbock, USA; ⁴ University of Kansas Medical Center, Kansas City, USA; ⁵ Vanderbilt University Medical Center, Nashville, USA; ⁶ Walter Reed National Military Medical Center, Bethesda, USA

A-0543 Median Nerve Injury in Wistar Rats Treated with GM1: Functional Evaluation

Oswaldo Mendes de Oliveira Filho (Oliveira Fiho, OM) ¹ Márcia dos Santos Rizzo (Rizzo, MS) ¹ Antônio César Almeida de Oliveira (de Oliveira, ACA) ¹ Gustavo Bispo dos Santos (dos Santos, GB) ² William Dias Belangero (Belangero, WD) ³

¹ Universidade Federal do Piauí (UFPI), Teresina, Brazil ² Universidade de São Paulo (USP), São Paulo, Brazil ³ Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil

A-0380 Avoiding nerve suture line tension using Jabaley epineurial splint technique

Teodor Stamate ¹, Mariana Stamate ², Ionuț Atănăsoae ¹, Ionuț Topa ¹

1. University of Medicine and Pharmacy "Grigore T.Popa" IASI, Romania 2. Laboratory of Neurophysiology – Neurosurgery Hospital, IASI, Romania

SL ligament TFCC

Free papers 18

Friday, 18 June 2021 | 14:00 - 15:00 CEST (GMT+2) | Channel 4

Chair: Fernando Corella

A-0665 Diagnostic accuracy of MRI and MR Arthrography in Scapholunate Interosseous Ligament Injury: A Systematic Review and Meta-Analysis

Philippe Sprangers, Stan Buckens, Stefan Hummelink, Brigitte van der Heijden
Radboudumc, Nijmegen, The Netherlands

A-0667 Arthroscopy Capsuloplasty and Temporary Screw augmentation in S-L tears grade IIIC & IV of the EWAS Classification. Medium term follow Up

Caloia Martín, Ronconi Sergio, Caloia Hugo, González Scotti Diego, Barrozo Germán, Serur María Emilia, García Puerta Stevent, Chamorro Gerónimo, Meritano Alejandro, Guevara Gonzalo.
Orthopaedic Department, Upper Extremity & Hand Surgery section. Austral University Hospital, Pilar, Buenos Aires, Argentina.

A-0568 Radiological and functional correlation following scapholunate and intercarpal ligamentoplasty "SLIC procedure" at minimum follow-up of 12 months

Florent METAIRIE¹, Ludovic ARDOUIN², Philippe BELLEMERE³, Yves BOUJU⁴, Etienne GAISNE⁵, Marc LEROY⁶
Institut de la main Nantes Atlantique, ST HERBLAIN, France

A-0355 Long-term follow-up of scapho-lunate reconstruction with the DRAW technique.

N Della Rosa, N Bertozzi, G Colzani, R Adani
Operative Unit of Hand Surgery and Microsurgery Azienda Ospedaliera Policlinico Modena (Italy)

A-0361 Comparison between dorsal capsuloplasty techniques for chronic injuries of the scapho-lunate ligament: Viegas vs Berger.

Della Rosa Norman., Lancellotti Enrico¹, Tosi Daniele, Adani Roberto
Operative Unit of Hand surgery and Microsurgery Azienda Ospedaliera Policlinico Modena (Italy)¹ Department of Orthopaedic Ospedale Santa Maria Nuova Reggio Emilia (Italy)

A-0291 Histological Analysis of the TFCC: An Examination on the Meniscus Homologue, Ulnar Collateral Ligament and Ligament Subcruentum

Toshiyasu Nakamura¹, David L. Nelson
¹ Department of Orthopaedic Surgery, International University of Health and Welfare, Tokyo, Japan; ² Private Practice, San Francisco, USA

A-0526 Management of Palmer Type 1B TFCC Tears: A Systematic Review of Cadaver Studies

Claire Elisabeth Arnolda Koeyvoets¹, Joris Sebastiaan Teunissen¹, Reinier Feitz (1,2,3), Steven Hovius (1,4), Elisabeth Hagert (6,7,8), Egberta Petronella Adriana van der Heijden (1,5)

1 Radboud university medical center, Department of Plastic and Reconstructive and Hand Surgery, PO Box 9101, 6500 HB Nijmegen, The Netherlands 2 PhD Candidate Radboud university medical center, Radboud Institute for Health Sciences, Department of Plastic, Reconstructive and Hand Surgery, Nijmegen, The Netherlands 3 Hand and Wrist Center, Xpert Clinics, Laarderhoogtweg 12, 1101 EA, Amsterdam, The Netherlands. 4 Hand and Wrist Center, Xpert Clinics, KP van der Mandelelaan 10, 3062MB, Rotterdam, The Netherlands. 5 Jeroen Bosch Hospital, Department of Plastic and Hand Surgery, Henri Dunantstraat 1, 5223 GZ 's Hertogenbosch, The Netherlands 6 Karolinska Institutet, Dept of Clinical Science and Education, Sodertorsjukhuset, Stockholm, Sweden 7 Arcademy, H.M Queen Sophia Hospital, Stockholm, Sweden 8 Musculoskeletal & Sports Injury Epidemiology Center. Department of Health promotion science. Sophiahemmet University, Stockholm, Sweden.

A-0373 All Arthroscopic TFCC Fovea Repair with Suture Anchor in Athletes

Juitien Shih
Armed Forces Taoyuan General Hospital, Taoyuan, Taiwan

A-0321 Arthroscopic isometric inside-out suture technique for TFCC foveal repair

Keiji Fujio, Saori Yamaguchi, Kentaro Seki, Kazuaki Tsuyuguchi, Yasuhiko Maki
Orthopaedic department of Osaka Maki Orthopaedic Hospital Osaka, Japan

A-0112 Preoperative Patient Reported Wrist Evaluation (PRWE) should guide the indication for open reinsertion of the Triangular Fibrocartilage Complex (TFCC) reinsertion

R Feitz^{1,2,3}, YE van Kooij¹, MJW van der Oest^{1,3,4}, JS Souer¹, SER Hovius^{1,2}, RW Selles^{3,4}, and the Hand-Wrist Study Group[‡]
¹Xpert Clinics, Hand and Wrist center, Laarderhoogtweg 12, 1101 EA, Amsterdam, The Netherlands ²Department of Plastic-, Reconstructive-, and Hand Surgery, Radboud University Medical Center, PO Box 9101, 6500 HB Nijmegen, the Netherlands ³Department of Plastic-, Reconstructive-, and Hand Surgery, Erasmus MC, PO Box 2040, 3000 CA Rotterdam, The Netherlands ⁴Department of Rehabilitation Medicine, Erasmus MC, PO Box 2040, 3000 CA, Rotterdam, The Netherlands [‡]Hand-Wrist Study Group collaborators: RAM Blomme, BJR Sluifjter, DJJC van der Avoort, A Kroeze, J Smit, J Debeij, ET Walbeehm, GM van Couwelaar, Guus M Vermeulen, JP de Schipper, JFM Temming, JH van Uchelen, HL de Boer, KP de Haas, K Harmsen, OT Zöphel, JS Souer, R Koch, TM Moojen, X Smit, R van Huis, PY Pennehouat, K Schoneveld, YE van Kooij, RM Wouters, P Zagt, FJ van Ewijk, JJ Veltkamp, A Fink, WA de Ridder, JT Porsius, J Tsehaie, R Poelstra, MC Janssen, PO Sun, VJMM Schrier, L Hoogendam, JS Teunissen, Jak Dekker, M Jansen-Landheer, M ter Stege.

Nerve / Pain /Basic

Free papers 19

Friday, 18 June 2021 | 14:00 - 15:00 CEST (GMT+2) | Channel 5

Chair: Lars Dahlin

A-0270 Microcirculation of Median Nerve in Carpal Tunnel Syndrome

Gokce Yildiran¹, Nusret Seher², Mustafa Sutcu³, Osman Akdag³, Alaaddin Nayman², Zekeriya Tosun³

¹ Konya City Hospital, Hand Surgery Clinic, Konya, Turkey ² Selcuk University Medical Faculty, Radiology Dep, Konya Turkey ³ Selcuk University Medical Faculty, Plastic, Reconstructive and Aesthetic Surgery Dep, Konya, Turkey

A-0159 MR imaging of peripheral nerves using targeted application of contrast agents: an experimental proof-of-concept study

Vlad Tereshenko^{1,2}, Irena Pashkunova-Martic^{3,4}, Krisztina Manzano-Szalai^{1,5}, Joachim Friske³, Konstantin D. Bergmeister^{1,2,6}, Christopher Festin^{1,2}, Martin Aman^{1,2,7}, Laura A. Hruby^{1,8}, Johanna Klepetko¹, Sarah Theiner⁴, Matthias H. M. Klose⁴, Bernhard Keppler⁴, Thomas Helbich³, Oskar C. Aszmann^{1,9*}

¹ Clinical Laboratory for Bionic Extremity Reconstruction, Division of Plastic & Reconstructive Surgery, Department of Surgery, Medical University of Vienna, Austria ² Center for Biomedical Research, Medical University of Vienna, Austria ³ Department of Biomedical Imaging and Image-guided Therapy, Division of Molecular and Structural Preclinical Imaging, Medical University of Vienna, Austria ⁴ Institute of Inorganic Chemistry, University of Vienna, Austria ⁵ Centre for Microbiology and Environmental Systems Science, University of Vienna, Austria ⁶ Karl Landsteiner University of Health Sciences, Department of Plastic, Aesthetic and Reconstructive Surgery, University Hospital St. Poelten, Krems, Austria ⁷ Department of Hand, Plastic and Reconstructive Surgery, Burn Center, University of Heidelberg, BG Trauma Hospital Ludwigshafen, Ludwigshafen, Germany ⁸ Department of Orthopedics and Trauma Surgery, Medical University of Vienna, Austria ⁹ Division of Plastic and Reconstructive Surgery, Medical University of Vienna, Austria

A-0613 Spontaneous autonomic reinnervation of neuromuscular junctions after surgical deafferentation: experimental animal model

Vlad Tereshenko¹, Joachim Ortmayr¹, Dominik Dotzauer¹, Udo Maierhofer¹, Konstantin D. Bergmeister^{1,2}, Christopher Festin¹, Matthias Luft¹, Gregor Längle¹, Roland Blumer³, Oskar C. Aszmann^{1,4}

¹ Clinical Laboratory for Bionic Extremity Reconstruction, Division of Plastic & Reconstructive Surgery, Department of Surgery, Medical University of Vienna, Austria; ² Karl Landsteiner University of Health Sciences, Department of Plastic, Aesthetic and Reconstructive Surgery, University Hospital St. Poelten, Krems, Austria; ³ Center for Anatomy and Cell Biology, Medical University of Vienna, Austria; ⁴ Division of Plastic and Reconstructive Surgery, Department of Surgery, Medical University of Vienna, Vienna, Austria

A-0172 Treatment Strategies for Injuries of the “Unforgiving” Radial Sensory Nerve

Elisabeth Maria Brakkee¹, Annemieke Stokvis², Erick DeVinney³, Ivica Ducic⁴, Henk Coert (1,2)

¹ University Medical Center Utrecht, The Netherlands, ² Erasmus MC, University Medical Center, Rotterdam, The Netherlands, ³ AxoGen, Alachua, Florida, United States, ⁴ Washington Nerve Institute, McLean, VA, United States

A-0469 Incidence of neuroma at a tertiary hand centre: a review of 418 amputations

Sunil Parthiban, James Halle-Smith, Ali Majeed Jawad, Mark Foster, Dominic Power

Department of Hands and Peripheral Nerve Surgery, Queen Elizabeth Hospital Birmingham, Birmingham, UK

A-0495 Morbidity and function loss after resection of malignant peripheral nerve sheath tumors

Enrico Martin^{1,2}, Courtney Pendleton³, Cornelis Verhoef², Robert J. Spinner³, J. Henk Coert¹, MONACO collaborators

¹ University Medical Center Utrecht, The Netherlands ² Erasmus Medical Center Rotterdam, The Netherlands ³ Mayo Clinic Rochester, MI, United States of America

A-0656 MODERN: a prospective multicenter study on outcome-monitoring of trunk nerve lesions of the upper extremity

Leila Harhaus¹, Martin Aman¹, Daniel Schwarz², Annette Stolle¹, Arne Böcker¹, Lukas Pindur³, Martin Bendszus², Ulrich Kneser¹

¹ Department of Hand-, Plastic and Reconstructive Surgery, Burn Center, Department of Hand- and Plastic Surgery of Heidelberg University, BG Trauma Center Ludwigshafen ² Department of Neuroradiology, University Hospital Heidelberg ³ Department of Plastic and Reconstructive Surgery, BG Trauma Center Frankfurt

A-0152 Acute and long-term costs of 268 peripheral nerve injuries in the upper extremity

Konstantin D. Bergmeister^{1,2,3}, Luisa Große-Hartlage¹, Simeon C. Daeschler¹, Patrick Rhodius¹, Arne Böcker¹, Marius Beyersdorff², Axel Olaf Kern⁴, Ulrich Kneser¹, Leila Harhaus¹

¹ Department of Hand, Plastic and Reconstructive Surgery, Burn Center, BG Trauma Center Ludwigshafen, Plastic and Hand Surgery, University of Heidelberg ² Clinical Laboratory for the Restoration of Extremity Function, Department of Surgery, Medical University of Vienna, Austria ³ Department of Plastic, Aesthetic and Reconstructive Surgery, University Hospital St. Poelten, Austria ⁴ Faculty of Social Work, Health, and Nursing, Hochschule Ravensburg-Weingarten, Weingarten, Germany

A-0272 Effect of tourniquet in atraumatic common hand surgery on perioperative pain and short-term patient reported outcomes: a

randomized controlled trial

Saskia de Roo¹, Wouter van Leeuwen¹, Brigitte van der Heijden^{1,2}

¹ Jeroen Bosch Hospital, 's-Hertogenbosch, The Netherlands; ² Radboud University Medical Center, Nijmegen, The Netherlands

Live surgery 4

Friday, 18 June 2021 | 15:00 - 17:30 CEST (GMT+2) | Channel 1

Live surgery demonstration from Rotterdam with the participation of the international FESSH surgical team

Table 1: Ulna (transverse osteotomy), SLAC/SNAC (implants)

Table 2: Ulna (oblique), SNAC/SNAC (partial fusion)

Complex trauma

Free papers 20

Friday, 18 June 2021 | 17:30 - 18:30 CEST (GMT+2) | Channel 1

Chair: Pierluigi Tos

A-0219 Protective effects of Paeoniflorin on the survival of random flaps.

Wenjie Li^{1,2} Dingsheng Lin²

A-0023 Rivastigmine induces angiogenesis by regulating HIF-1 α /VEGF pathway to promote the survival of random flaps in rats

Yingying Liu^{1,2}, Dingsheng Lin^{1,2,3}

¹ Department of Hand Surgery, The Second Affiliated Hospital and Yuying Children's Hospital of Wenzhou Medical University, Wenzhou, China; ² The Second School of Medicine, Wenzhou Medical University, Wenzhou, China; ³ Corresponding author at: Department of Hand Surgery, The Second Affiliated Hospital and Yuying Children's Hospital of Wenzhou Medical University, 109# Xue yuan xi lu, Wenzhou, China.

A-0606 Vein conduits used to improve the reliability of arterial suture repair by microsurgery. Randomised comparative study on rats.

Nicolas Bigorre¹, Alexandre Petit¹, Jérôme Jeudy¹, Yann Saint Cast¹, Jérôme Brunet¹, Henri Dominique Fournier²

¹ Centre de la Main, Angers, France; ² Laboratoire d'Anatomie - Faculté de Médecine, Angers, France

A-0138 Venous congestion complications after digital replantation treated with medicinal leeches

(1,2) Mihaela Pertea², Alina Mihaela Stan², Dmitrii Leontii², Diana Al khazaleh², Petru Ciobanu (1,2)

¹ "Grigore T. Popa" University of Medicine and Pharmacy Iasi, Romania, ² Clinic of Plastic Surgery and Reconstructive Microsurgery, "Sf. Spiridon" Emergency Hospital, Iasi, Romania

A-0268 Increase of Fat Graft Survival by Mesenchymal Stem Cell Recruiting Effect of Platelet Rich Plasma (PRP): in vivo and in vitro Study

Gokce Yildiran¹, Gulsemin Cicek², Z. Esin Celik³, Hulya Ozdemir⁴, Hasibe Artac⁴, Osman Akdag⁵, Selcuk Duman⁶, Mustafa Sutcu⁵, T. Murad Aktan⁶, Zekeriya Tosun⁵

¹ Konya City Hospital, Hand Surgery Clinic, Konya, Turkey ² Kanuni Sultan Süleyman Training and Research Hospital, Histology and Embriology, Istanbul, Turkey ³ Selcuk University Medical Faculty, Pathology Dep, Konya, Turkey ⁴ Selcuk University Medical Faculty, Pediatric Immunology and Allergy Dep, Konya, Turkey ⁵ Selcuk University Medical Faculty, Plastic, Reconstructive and Aesthetic Surgery, Konya, Turkey ⁶ Necmettin Erbakan University Medical Faculty, Histology and Embriology Dep, Konya, Turkey

A-0657 Paediatric composite fingertip grafts: 7-year experience from a tertiary plastic surgery unit and a proposed management algorithm

James Carter, Nick Arkoulis

Royal Hospital for Children, Glasgow, UK.

A-0681 Reconstructive operations of the thumb after traumatic deformities in children.

Galkina N.S¹, Tikhonenko T.I.², Golyana S.I.³

H. Turner National Medical Research Center for Children's Orthopedics and Trauma Surgery. Saint-Petersburg, Russia

WALANT / Trigger finger

Free papers 21

Friday, 18 June 2021 | 17:30 - 18:30 CEST (GMT+2) | Channel 2

Chair: Mireia Esplugas

A-0064 WALANT as a Safe, Reliable and Beneficial Modality for the Trainee Hand Surgeon - Analysis of a Consecutive Personal Patient Series

Sebastian Hediger^{1,2}, Dirk J. Schaefer¹, Andreas Gohritz¹

¹ Department of Plastic, Reconstructive, Aesthetic and Hand Surgery, University Hospital Basel, Basel, Switzerland ² Department of Hand- and Plastic Surgery, Spital Thurgau AG, Frauenfeld and Münsterlingen, Switzerland

A-0336 Trapezo-metacarpal arthroplasty (TMC) under Wide Awake Local Anesthesia with No Tourniquet (WALANT) versus Locoregional anesthesia with peripheral nerve blocks (LAPNV): result on peri and post-operative pain and early functional result, about 30 cases.

Lara Moscato¹, A. Laborde¹, P. Kouyoumdjian¹, R Coulomb¹, O. Mares¹.

¹ CHU de Nîmes, service de chirurgie orthopédique Pr Kouyoumdjian. Avenue du Pr Debré, 30000 Nîmes. France

A-0089 Wide Awake Local Anesthesia Surgery with Epinephrine is Safe: A Series of 4,287 Consecutive Hand & Upper Extremity Procedures

ASIF ILYAS, JOHN JENNINGS, LAUREN BANNER, JONAS MATZON

The Rothman Institute at Thomas Jefferson University Philadelphia, PA, USA

A-0262 What is the Infection Rate in Carpal Tunnel Syndrome and Trigger Finger Release Performed Under Wide Awake Anesthesia?

Ignacio Rellán¹, Pedro Bronenberg Victorica¹, Surya Kohan Fortuna Figueira¹, Gerardo Luis Gallucci¹, Agustin Guillermo Donndorff¹, Pablo De Carli¹, Ezequiel Ernesto Zaidenberg¹, Jorge Guillermo Boretto¹

¹Department of Orthopaedics, Hospital Italiano de Buenos Aires, Buenos Aires, Argentina Instituto de Ortopedia y Traumatología "Carlos E. Ottolenghi," Potosí 4215 (C1199ACK), Buenos Aires, Argentina

A-0123 Wide-Awake Hand Surgery Experience in 10 to 18 Years of Age

Zeynep Tuna¹, Egemen Ayhan²

¹ Department of Physiotherapy and Rehabilitation, Faculty of Health Sciences, Gazi University, Ankara, Turkey ² Department of Orthopaedics and Traumatology, Diskapi YB Training and Research Hospital, University of Health Sciences, Ankara, Turkey

A-0082 Out-of-sheath corticosteroid injections through the dorsal webspace for trigger finger and trigger thumb. A prospective case series.

Isidro Jiménez^{1,2}, José Medina^{1,2}, Alberto Marcos-García^{1,2}, Beatriz Romero¹, Gerardo L Garcés^{2,3}

¹ Hospital Universitario Insular de Gran Canaria, Las Palmas de Gran Canaria, Spain. ² Universidad de Las Palmas de Gran Canaria. Las Palmas de Gran Canaria, Spain. ³ Hospital Perpetuo Socorro. Las Palmas de Gran Canaria, Spain.

A-0436 Predicting preoperative pain levels of trigger finger patients scheduled for surgical release: a large cross-sectional study from the Hand and Wrist cohort

Daniek J. Bogerd (1,2), Christianne A. van Nieuwenhoven¹, Mark J. W. van der Oest (1-3), Ruud W. Selles (1,2), Harm P. Slijper (1-3), Jeroen M. Smit³, Robbert M. Wouters (1,2,4), The Hand-Wrist Study Group

¹ Department of Plastic, Reconstructive and Hand Surgery, Erasmus MC, Rotterdam, The Netherlands; ² Department of Rehabilitation Medicine, Erasmus MC, Rotterdam, The Netherlands; ³ Hand and Wrist Center, Xpert Clinic, The Netherlands; ⁴ Center for Hand Therapy, Handtherapie Nederland, Utrecht, The Netherlands

A-0651 Endoscopic Trigger Finger Release: Outcomes of a Novel Minimally Invasive Technique for the Treatment of Stenosing Tenosynovitis

Justin Mirza, Ather Mirza, Luke Zappia, Terence Thomas

Mirza Orthopedics, Smithtown, NY, USA

Nerve Transfers

Free papers 22

Friday, 18 June 2021 | 17:30 - 18:30 CEST (GMT+2) | Channel 3

Chair: Gürsel Leblebioğlu

A-0515 Distinctive analysis of axonal components in the radial and ulnar nerve branches innervating human forearm

Vlad Tereshenko¹, Olga Politikou¹, Dominik Dotzauer¹, Johanna Klepetko¹, Udo Maierhofer¹, Konstantin D. Bergmeister^{1,2}, Christopher Festin¹, Matthias Luft¹, Gregor Laengle¹, Roland Blumer³, Oskar C. Aszmann^{1,4}

¹ Clinical Laboratory for Bionic Extremity Reconstruction, Medical University of Vienna, Austria. ² Karl Landsteiner University of Health Sciences, Department of Plastic, Aesthetic and Reconstructive Surgery, University Hospital St. Poelten, Krems, Austria. ³ Center for Anatomy and Cell Biology, Medical University of Vienna, Austria. ⁴ Division of Plastic and Reconstructive Surgery, Department of Surgery, Medical University of Vienna, Austria.

A-0094 Anconeus nerv revised

Mauro Maniglio^{1,2,3} Ezequiel Zaidenberg^{2,4} Ezequiel Martinez⁴ Carlos Zaidenberg⁴

¹ CHUV University Hospital Lausanne, Switzerland ² HFR, University Hospital Fribourg, Switzerland ³ Hospital Italiano de Buenos Aires, Argentina ⁴ Anatomy Department, School of Medicine, University of Buenos Aires

A-0497 Novel nerve transfer to the sterno(cleido)mastoid muscle: an experimental animal model for proprioceptive reinnervation

Vlad Tereshenko¹, Dominik Dotzauer¹, Udo Maierhofer¹, Christopher Festin¹, Matthias Luft¹, Gregor Längle¹, Olga Politikou¹, Konstantin D. Bergmeister (1,2), Roland Blumer³, Oskar C. Aszmann (1,4)

¹ Clinical Laboratory for Bionic Extremity Reconstruction, Division of Plastic & Reconstructive Surgery, Department of Surgery, Medical University of Vienna, Austria; ² Karl Landsteiner University of Health Sciences, Department of Plastic, Aesthetic and Reconstructive Surgery, University Hospital St. Poelten, Krems, Austria; ³ Center for Anatomy and Cell Biology, Medical University of Vienna, Austria; ⁴ Division of Plastic and Reconstructive Surgery, Department of Surgery, Medical University of Vienna, Vienna, Austria

A-0195 Outcomes of Anterior Interosseous Nerve Transfer to Restore Intrinsic Muscle Function after High Ulnar Nerve Injury

Samuel George¹, Abdus Burahee¹, Andrew Sanders¹, Dominic Power¹

¹ Queen Elizabeth Hospital, Birmingham, UK.

A-0496 Double nerve transfer for reconstruction of pinch in high ulnar nerve palsy

Samuel Hodgson¹ Jacek Parylo¹ Tahseen Chaudhry²

¹ The Medical School, University of Birmingham, UK ² Department of peripheral nerve surgery, University Hospital Birmingham, UK

A-0182 A review of nerve transfers for ulnar nerve injuries

Samuel George¹, Dominic Power¹

¹ Queen Elizabeth Hospital, Birmingham, UK.

A-0158 Creation of a “Bio-Screen” through Multiple Nerve Transfers to a Single Target Muscle for High Fidelity Prosthetic Control

Matthias Luft^{1,2}, Konstantin D. Bergmeister^{1,2,4}, Johanna Klepetko^{1,2}, Vlad Tereshenko^{1,2}, Christopher Festin^{1,2}, Gregor Längle^{1,2}, Olga Politikou^{1,2}, Oskar C. Aszmann^{1,2,3}

¹ Clinical Laboratory for Bionic Extremity Reconstruction, Division of Plastic & Reconstructive Surgery, Department of Surgery, Medical University of Vienna, Austria; ² Center for Biomedical Research, Medical University of Vienna, Austria; ³ Division of Plastic and Reconstructive Surgery, Medical University of Vienna, Vienna, Austria; ⁴ Karl Landsteiner University of Health Sciences, Department of Plastic, Aesthetic and Reconstructive Surgery, University Hospital St. Poelten, Krems, Austria

A-0254 Treatment of Spastic Forelimb Hypertonia with Cognitive Muscle Reinnervation in Upper Motor Neuron Syndrome

Olga Politikou¹, Vlad Tereshenko¹, Matthias Luft¹, Christopher Festin¹, Gregor Längle¹, Silvia Muceli², Oskar Aszmann¹

¹ Clinical Laboratory for Bionic Extremity Reconstruction, Department of Surgery, Medical University of Vienna, Austria ² Electrical Engineering, Chalmers University of Technology, Sweden

Kienböck

Free papers 23

Friday, 18 June 2021 | 17:30 - 18:30 CEST (GMT+2) | Channel 4

Chair: Matthias Vanhees

A-0078 Is core decompression an effective treatment for Kienböck's disease in middle-aged patients?

Mauro Maniglio (1,2,3) Ezequiel Zaidenberg³ Thürig Gregoire² Emanuel Gautier² Jorge Boretto³ Pablo De Carli³

¹ CHUV University hospital Lausanne, Switzerland; ² HFR, University Hospital Fribourg, Switzerland; ³ Hospital Italiano de Buenos Aires, University hospital, Argentina

A-0093 Is there a correlation between the clinical and radiological outcome after radius core decompression for Kienböck's disease?

Mauro Maniglio,^{1,2,3} Ezequiel Zaidenberg,² Simon Roner,⁴ Emanuel Gautier,³ Gerardo Gallucci,² Pablo De Carli,²
¹ CHUV, University Hospital Lausanne, Switzerland ² Hospital Italiano de Buenos Aires, Argentina ³ HFR, University hospital Fribourg, Switzerland ⁴ KSGR, Kanton Hospital Chur, Switzerland

A-0163 Is sufficient treatment of Kienböck's disease possible using the osteochondral flap from the lateral femoral condyle?

Christian M Windhofer^{1,2}, Heinz K Bürger³, Alexander Gaggl⁴
¹ Trauma Department, Unfallkrankenhaus Salzburg, Austria ² Ludwig-Boltzmann-Institut for experimental and clinical traumatology, Vienna, Austria
³ Privat Hospital Maria Hilf, Klagenfurt, Austria. ⁴ General Hospital Salzburg, Department of maxillary surgery, Salzburg, Austria

A-0155 Improvement of lunare perfusion after radial closing wedge osteotomy in patients with Kienböck's disease

Jeong Hyun Lee, Yo-Han Lee, Kee Jeong Bae, Jihyeung Kim, Hyun Sik Gong, Young Ho Lee, Goo Hyun Baek,
Department of Orthopaedic Surgery, Seoul National University, College of Medicine, Seoul, South Korea

A-0561 Lunate fragmentation in Kienböck's disease – 29 cases.

J.C.Botelheiro Hospital Lusíadas, Lisboa; Hospital de Sant'Ana, Parede, Portugal
Hospital Lusíadas, Lisbon, Portugal

A-0232 Proximal row carpectomy: with or without radial styloidectomy?

Geert van Rijt, Robin E. Delnoy, Elske E.D.J. Bonhof-Jansen, Tjeerd R. de Jong
Isala, Zwolle, The Netherlands

A-0376 Does the capitate anatomy affect on the load of radiocarpal joint after the proximal row carpectomy? Analyses of the capitate anatomy and finite element analyses

Hidemasa Yoneda¹, Katsuyuki Iwatsuki¹, Shigeru Kurimoto¹, Michiro Yamamoto¹, Masahiro Tatebe¹, Hitoshi Hirata
¹ Department of Hand Surgery, Nagoya University, Japan

Meet the Industry

Friday, 18 June 2021 | 18:30 - 19:00 CEST (GMT+2) | Channel 1

Nerve gap and reconstruction (incl allograft)

Nerve Round table 1

Friday, 18 June 2021 | 19:00 - 20:00 CEST (GMT+2) | Channel 1

Chair: Llars Dhalin, Bruno Battiston

A-0729 Nerve graft - how, when and expected results

Erik Walbeehm

A-0730 Tubulization - wick, when and why

Pierluigi Tos

A-0731 Allograft : indication and results

Bauback Safa

A-0732 Nerve transfers: when and why

Jean-Noel Goubier

A-0733 Management of painful neuroma

Ivica Ducic

How to manage ulnar sided wrist pain

Wrist Round table 1

Friday, 18 June 2021 | 19:00 - 20:00 CEST (GMT+2) | Channel 2

Chair: Alex Lluch, Carlos Heras-Palou, Jan-Ragnar Haugstvedt

Recurrent Dupuytren (> 3)

Complicated Cases Round table 1

Friday, 18 June 2021 | 19:00 - 20:30 CEST (GMT+2) | Channel 3

Chair: Paul Werker, Ilse de Greef

A-0762 What is recurrence? Various definitions

Paul Werker

A-0763 Treatment of recurrence after CCH: when to do what?

David Warwick

A-0764 Dermofasciectomy: when and how to do it?

Ilse de Greef

A-0765 Outcome after PIP arthrodesis for severe recurrent PIP Dupuytren contracture

Michelle Spiteri

Nerve transfers in OBP: indications, alternatives and results

Nerve Round table 2

Friday, 18 June 2021 | 20:00 - 21:00 CEST (GMT+2) | Channel 1

Chair: Francisco Soldado

A-0755 SAN-SSN

Kevin Little

A-0756 Oberlin

Jayme Bertelli

A-0757 Triceps to axillary

Amr El-Sayed

A-0758 Intercostals

Dan Zlotolow

A-0759 Contralateral C7

Gürsel Lelebicioglu

A-0760 SAN-infraspinatus / Triceps-Teres minor

Francisco Soldado

Myths and facts about wrist proprioception

Wrist Round table 2

Friday, 18 June 2021 | 20:00 - 21:00 CEST (GMT+2) | Channel 2

Chair: Alex Lluch, Carlos Heras-Palou

Recurrent/persistent CMC thumb pain after trapeziectomy

Complicated Cases Roundtable 2

Friday, 18 June 2021 | 20:30 - 22:00 CEST (GMT+2) | Channel 3

Chair: Filip Stockmans

Treatment of recurrent carpal and cubital tunnel

Nerve Round table 3

Friday, 18 June 2021 | 21:00 - 22:00 CEST (GMT+2) | Channel 1

Chair: Francisco del Pinal

A-0761 Recurrent carpal tunnel

Roberto Ardani

A-0726 Irritative carpal tunnel syndrome (ICTS)

Francisco del Pinal

A-0727 Recurrent ulnar tunnel Filippi

Mike Ruettermann

A-0728 Last resort options for failed cubital and carpal tunnel.

J Henk Coert

Is there any certainty in Kienböck's disease

Wrist Round table 3

Friday, 18 June 2021 | 21:00 - 22:00 CEST (GMT+2) | Channel 2

Chair: Alex Lluch, Carlos Heras-Palou, Greg Bain

Instructional Course 3

Saturday, 19 June 2021 | 08:00 - 09:00 CEST (GMT+2) | Channel 1

A-0718 Tendon surgery

Gwendolyn van Strien

A-0719 Nerve surgery

Ton Schreuders

A-0720 Hand therapy. Prevention and management of complications in bone and joint fractures

Gert-Jan Kroon, Elske Bonhof-Jansen

A-0721 It is not CRPS

Francisco del Pinal

A-0722 Management expectations/Factitious disorders

Randy Bindra

A-0723 Informed Consent/ how to prevent medicolegal issues

Randy Bindra

A-0724 Complications: what is does with the surgeon

David Warwick

A-0725 Complications: what is does with the patient

Terry Whipple

EWAS 1

Saturday, 19 June 2021 | 08:00 - 12:00 CEST (GMT+2) | Channel 2

Research and PROMS 1

Saturday, 19 June 2021 | 09:00 - 10:00 CEST (GMT+2) | Channel 1

Chair: Simon Farnebo, Ruud Selles

EWAS 2

Saturday, 19 June 2021 | 09:00 - 10:00 CEST (GMT+2) | Channel 2

Pediatric handsurgery - Congenital malformations and complication 1

Round table

Saturday, 19 June 2021 | 09:00 - 10:00 CEST (GMT+2) | Channel 3

Chair: Steven Hovius, Daniel Weber

Topics:

Syndactyly
Syndactyly, using artificial grafts
Apert syndrome
Radial Polydactyly
Triphalangeal Thumb
Hypoplastic thumb, Grade 2 and 3A
Pollicisation
Cleft Hand
Arthrogryposis
Symbrachydactyly
Macrodactyly
Longitudinal radial deficiency

Speakers:

Daniel Weber
Lorenzo Garagnani
Henk Giele
Christianne van Nieuwenhoven
Steven Hovius
Dean Boyce
Marybeth Ezaki
Stéphane Guero
Scot Oishi
Gill Smith
Andrea Jester
Rolf Habenicht

Hand trauma Prevention and prevention of complications

Trauma and Prevention Round table 1

Saturday, 19 June 2021 | 09:00 - 10:00 CEST (GMT+2) | Channel 4

Chair: Anna De Leo, Geert Buijze

A-0734 Possible ideas for a trauma prevention campaign in Europe

Anna De Leo

A-0735 Prevention of most common mistakes in hand trauma

Zoe Dailiana

A-0736 Prevention of complication in replantation surgery

Pierluigi Tos

Research and PROMS 2

Saturday, 19 June 2021 | 10:00 - 11:00 CEST (GMT+2) | Channel 1

Chair: Simon Farnebo, Ruud Selles

EWAS 3

Saturday, 19 June 2021 | 10:00 - 11:00 CEST (GMT+2) | Channel 2

Pediatric handsurgery - Congenital malformations and complication 2 Round table

Saturday, 19 June 2021 | 10:00 - 11:00 CEST (GMT+2) | Channel 3

Chair: Steven Hovius, Daniel Weber

Topics:

Syndactyly
Syndactyly, using artificial grafts
Apert syndrome
Radial Polydactyly
Triphalangeal Thumb
Hypoplastic thumb, Grade 2 and 3A
Pollicisation
Cleft Hand
Arthrogryposis
Symbrachydactyly
Macrodactyly
Longitudinal radial deficiency

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Daniel Weber
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Marybeth Ezaki
Stéphane Guero
Scot Oishi
Gill Smith
Andrea Jester
Rolf Habenicht

Prevention in most common trauma complications Trauma and Prevention Round table 2

Saturday, 19 June 2021 | 10:00 - 11:00 CEST (GMT+2) | Channel 4

Chair: Igor Gobulev, Pierluigi Tos

A-0737 How to prevent complications in distal radius ORIF

Marcos Sammartin Fernandez

A-0738 Prevention of complications in nail injuries

Christian Dumontier

A-0739 Flaps for the pulp of long fingers - the correct strategy

Roberto Adani

A-0740 How to avoid complication in zone II tendon repair

Maurizio Calcagni

A-0741 Avoid problems in hand infections

David Shewring

A-0742 Is there a way to reduce complications in terminalization of fingers?

Alessandro Crosio

Research and PROMS 3

Saturday, 19 June 2021 | 11:00 - 12:00 CEST (GMT+2) | Channel 1

Chair: Simon Farnebo, Ruud Selles

EWAS 4

Saturday, 19 June 2021 | 11:00 - 12:00 CEST (GMT+2) | Channel 2

**Pediatric handsurgery - Congenital malformations and complication 3
Round table**

Saturday, 19 June 2021 | 11:00 - 12:00 CEST (GMT+2) | Channel 3

Chair: Steven Hovius, Daniel Weber

Topics:

Syndactyly

Syndactyly, using artificial grafts

Apert syndrome

Radial Polydactyly

Triphalangeal Thumb

Hypoplastic thumb, Grade 2 and 3A

Pollicisation

Cleft Hand

Arthrogryposis

Symbrachydactyly

Macroductyly

Longitudinal radial deficiency

Speakers:

Daniel Weber

Lorenzo Garagnani

Henk Giele

Christianne van Nieuwenhoven

Steven Hovius

Dean Boyce

Marybeth Ezaki

Stéphane Guero

Scot Oishi

Gill Smith

Andrea Jester

Rolf Habenicht

Complex Regional Pain Syndrome

Trauma and Prevention Round table 3

Saturday, 19 June 2021 | 11:00 - 12:00 CEST (GMT+2) | Channel 4

Chair: Piotr Czarnecki

A-0743 A modern pharmacologic approach to CRPS with neridronate

Simona Odella , Massimo Varena

A-0744 Surgery for some "CRPS" patients - who, how, and when -
Francisco del Pinal

Wrist arthroplasty / COVID

Free papers 24

Saturday, 19 June 2021 | 12:30 - 13:30 CEST (GMT+2) | Channel 1

Chair: Juan José Hidalgo Diaz

A-0184 PROSTHETIC REPLACEMENT OF THE WRIST

sandra pfanner, giovanni munz, giulio lauri, prospero bigazzi
Hand Surgery and Reconstructive Microsurgery Unit - AOU Careggi Hospital, Florence ITALY

A-0214 Rearticulating total wrist arthrodesis to a total wrist arthroplasty. 11 patients followed 5 (3-13) years.

Ole Reigstad^{1,2}, Trygve Holm-Glad^{1,2}, Johanne Korslund^{1,2}, Siri Roness¹, Cathrine Myhre¹, Rasmus Thorkildsen^{1,2} and Magne Røkkum^{1,2}
¹Division of Orthopaedic Surgery, Oslo University Hospital, Oslo, Norway ²Institute of Clinical Medicine, University of Oslo, Oslo, Norway

A-0242 Universal 2 Total Wrist Arthroplasty for Rheumatoid Arthritis

David Veigl, Stanislav Popelka, Jan Pech
David Veigl

A-0647 Hand Trauma injury pattern during the Pandemic

Bafiq Nizar^{1,2} Tae Park¹ Qureish Vanat¹ Ohema Powell¹ Maximilian Gardner¹ Ellie Ctori¹ Ella Tumelty¹ Jill Webb¹ Rajive Jose¹ Samuel George¹ Mark Foster¹ Darren Chester¹ Dominic Power¹
¹ Birmingham Hand Centre, University Hospitals NHS Foundation Trust, United Kingdom ² St. John's Hospital, Livingston, United Kingdom

A-0512 Should we stop elective surgery during a pandemic ?

Bafiq Nizar^{1,2} Tae Park¹ Qureish Vanat¹ Ohema Powell¹ Maximilian Gardner¹ Ellie Ctori¹ Ella Tumelty¹ Jill Webb¹ Rajive Jose¹ Dominic Power¹
¹ Birmingham Hand Centre, University Hospitals NHS Foundation Trust, United Kingdom ² St. John's Hospital, Livingston, United Kingdom

A-0500 A Safe Protocol for Intra-articular Steroid Injections to the Hand During COVID-19 Pandemic

Sofia Eriksson, Iain Roy, Robert Manton, Patrick Goon, Frederik Schreuder
Lister Hospital, Stevenage, UK.

A-0644 Patient Reported Outcome Measure in Hand Trauma Surgery During a Pandemic

Bafiq Nizar^{1,2} Tae Park¹ Qureish Vanat¹ Ohema Powell¹ Maximilian Gardner¹ Ellie Ctori¹ Ella Tumelty¹ Jill Webb¹ Rajive Jose¹ Dominic Power¹
¹ Birmingham Hand Centre, University Hospitals NHS Foundation Trust, United Kingdom ² St. John's Hospital, Livingston, United Kingdom

A-0511 Patient-reported outcome measures in management of paediatric traumatic fingertip injuries using skin glue or sutures: a comparative study before and during COVID

Jia Choong¹, Colin Brewster¹, Aayushi Singal², Nikita Shah¹, Nicola Gallaher¹, Aisha Hussein², Ming Ing Chew², Yan Tsui², Ethel Ojo², Kezia Echlin¹, Andrea Jester¹
¹ Birmingham Children's Hospital, United Kingdom ² Aston Medical School, United Kingdom

A-0453 Post-Prone Plexopathy in COVID-19 Critical Care Patients: a regional hand and nerve surgery service's experience and recommendations at a major critical care centre

Ali M. Jawad, Jack Jeffrey, Emma Cahill, Caroline Miller, Joel O'Sullivan, Andrew Sanders, Abdus Burahee, Dominic Power
HaPPeN Research Group, Queen Elizabeth Hospital, Birmingham, United Kingdom

Carpal / arthroscopy

Free papers 25

Saturday, 19 June 2021 | 12:30 - 13:30 CEST (GMT+2) | Channel 2

Chair: Montse Ocampos

A-0582 Surgical treatment of chronic (misdiagnosed) perilunate fracture dislocations

Sergii Strafun, Oleksii Dolhopolov, Sergii Tymoshenko, Serhii Bezruchenko, Maryna Yarova
SI «Institute of traumatology and orthopedics of the NAMS of Ukraine», Kyiv, Ukraine

A-0399 Outcomes of a proprioceptive retraining program in patients with midcarpal instability; a cohort study of 194 patients

Mart Brands^{1,2}, Ruud Selles^{1,2}, Yara van Kooij^{1,2,4}, Reinier Feitz³, Harm Slijper³, Robbert Wouters^{1,2,4}
¹Department of Plastic, Reconstructive and Hand Surgery, Erasmus MC, Rotterdam, The Netherlands; ² Department of Rehabilitation Medicine, Erasmus MC, Rotterdam, The Netherlands; ³ Hand and Wrist Center, Xpert Clinic, Amsterdam, The Netherlands; ⁴ Center for Hand Therapy, Handtherapie Nederland, Utrecht, The Netherlands

A-0486 Differences in psychological factors between patients treated operatively and patients treated conservatively for carpal instability

W. Davids, B. Hesselting, G.A. Kraan, N.M.C. Mathijssen
Reinier de Graaf Hospital, Delft, The Netherlands

A-0671 ScaphoTrapezioTrapezoidal Joint Arthritis Arthroscopic Treatment with Tendon allograft Double Interposition

Rita Pereira Cavaca¹, Paulo Gil Ribeiro¹, Catarina Quintas¹, Paulo Costa¹, José Alexandre Marques¹
¹ Centro Hospitalar e Universitário de Coimbra, Orthopaedics Department, Portugal

A-0605 Clinical and biomechanical evaluation of STT arthrodesis

Artur Soczka¹, Marta Jokiel^(1,2), Piotr Czarnecki¹, Leszek Romanowski¹
¹. Traumatology, Orthopedics and Hand Surgery Department Poznan University of Medical Sciences, Poland ². Physiotherapy Clinic Poznan University of Medical Sciences, Poland

A-0381 How should we manage ligamentous injuries in Distal Radius Fractures

Margaret Woon Man FOK¹, Christian Xinshuo Fang¹, Tak Wing Lau¹, Boris Kwok Keung, Fung¹, Frankie Ka Li Leung¹
¹ Department of Orthopaedics and Traumatology, Queen Mary Hospital, The University of Hong Kong, Hong Kong

A-0520 Diagnostic arthroscopy in the surgical planning of wrist Osteo-arthritis

Jane C Messina¹, Riccardo Luchetti², Paolo Arrigoni¹, Alessandra Menon¹, Pietro Randelli¹
¹) First Orthopaedic Clinic, University of Milan, Gaetano Pini- CTO Orthopaedic Institute, Milan, Italy ²) Rimini Hand Centre, Rimini, Italy

A-0275 Arthroscopic synovectomy of the wrist in patients with rheumatoid arthritis: a systematic review and meta-analysis

Philip d'Ailly¹, Marjolein Mulders¹, Radjesh Bissoendial², Marc Kok², Henk Coert³, Niels Schep¹
¹ Department of Hand and Trauma Surgery, Maasstad Hospital, Rotterdam, the Netherlands; ² Department of Rheumatology, Maasstad Hospital, the Netherlands; ³ Department of Hand Surgery, University Medical Centre Utrecht, the Netherlands

Congenital thumb/radius

Free papers 26

Saturday, 19 June 2021 | 12:30 - 13:30 CEST (GMT+2) | Channel 3

Chair: Hebe Désirée Kvernmo

A-0288 A Systematic Review of Vascularized Toe and Non-Vascularized Toe Phalangeal Transfer for Reconstruction of Congenital Absence of Digits or Thumb

Abigail E Meyers, Bahar Bassiri Gharb, Antonio Rampazzo
Cleveland Clinic, Cleveland, OH, USA

A-0180 Reconstruction of severely hypoplastic thumb by non-vascularized metatarsal graft with abductor digiti minimi opponensplasty

Takehiko Takagi¹, Ruriko Iigaya¹, Atsuhito Seki¹, Shinichiro Takayama¹
¹ National Center for Child Health and Development, Tokyo, Japan

A-0557 Complications in congenital thumb hypoplasia treatment

Igor Shvedovchenko¹, Andrei Koltsov¹.

¹ Federal State Budgetary Institution «Federal Scientific Center of Rehabilitation of the Disabled named after G.A. Albrecht» of the Ministry of Labour and Social Protection of the Russian Federation, St.Petersburg, Russia

A-0251 The Morphology of Soft Tissue Abnormalities in Radial Longitudinal Deficiencies: Multiple Tissue Analysis in Experimentally Generated Malformations with the Chicken Model

Julia Dong Hwa Oh¹, Wee Leon Lam², Megan G. Davey¹

¹ The Roslin Institute, Edinburgh, UK ² Royal Hospital for Sick Children, Edinburgh, UK

A-0591 Assessment of ulnar elongation by distraction osteogenesis in radial longitudinal deficiency.

Michał Górecki, Piotr Czarnecki, Marcin Redman

Department of Traumatology, Orthopaedics and Hand Surgery, Poznań University of Medical Sciences,

A-0522 Primary surgery for radial polydactyly: long-term follow up

Lisa Ng¹, Susan Stevenson¹, Helen Stark¹, Jane Maraka¹, Brid Crowley¹

¹ Department of Plastic and Reconstructive Surgery, Royal Victoria Infirmary, Newcastle upon Tyne Hospitals NHS Foundation Trust, Newcastle upon Tyne, United Kingdom

A-0572 Elbow joint formation in children with congenital humeroradial synostosis.

Andrey Koltsov¹, Igor Shvedovchenko¹

Federal State Budgetary Institution «Federal Scientific Center of Rehabilitation of the Disabled named after G.A. Albrecht» of the Ministry of Labour and Social Protection of the Russian Federation Russian Federation, 195067, St.Petersburg, Bestuzhevskaya street, 50

A-0456 Adults with Arthrogyposis - Long Term Functional Follow Up

Shai Luria¹, Doaa Qais¹, Asaal Ismaeel¹, Ido Volk¹, Madi El Haj¹, Shirley Meir², Sharon Eylon²

¹ Faculty of Medicine, Hebrew University of Jerusalem, Israel; ² Orthopedic Department, Hadassah Medical Center, Israel ² Alyn Hospital, Pediatric and Adolescent Rehabilitation Center, Jerusalem, Israel

Infections

Free papers 27

Saturday, 19 June 2021 | 12:30 - 13:30 CEST (GMT+2) | Channel 4

Chair: Frederik Verstreken

A-0084 Antibiotic Prophylaxis in Clean Hand Surgery: Prospective Analysis of Major & Minor Complications

JUSTIN KISTLER, ASIF ILYAS

The Rothman Institute at Thomas Jefferson University Philadelphia, PA, USA

A-0297 A microbiological analysis of 210 cases of hand osteomyelitis

Dallan Dargan^{1,2} Matthew Wyman^{1,2} Dominic Ronan¹ Mark Heads³ Dave Partridge^{4,5} Jennifer Caddick¹ Victoria Giblin^{1,2}

¹ Sheffield Hand Centre, Sheffield Teaching Hospitals NHS Foundation Trust, UK ² Academic Medical Unit, University of Sheffield, UK ³ Sheffield Medical School, University of Sheffield, UK ⁴ Department of Microbiology, Sheffield Teaching Hospitals NHS Foundation Trust, UK ⁵ Florey Institute for Host-Pathogen Interactions, University of Sheffield, UK

A-0299 Hand osteomyelitis: a review of the literature over the last 30 years

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A-0117 Hand osteomyelitis in arterial calcification, diabetes mellitus and end stage renal failure: a comparison of 210 cases over 12 years

Matthew Wyman^{1,2}, Dallan Dargan^{1,2}, Jennifer Caddick¹, Victoria Giblin^{1,2}

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A-0540 The Utility of Prophylactic Antibiotics in Preventing Infection After Internal Fixation of Closed Fractures of the Hand

Guy Feldman¹, Hagay Orbach¹, Nimrod Rozen^{1,2}, Guy Rubin^{1,2}

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A-0465 Early bone biopsy and treatment failure rates in osteomyelitis of the hand: a study of 92 patient outcomes

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A-0276 Silver Ion Doped Hydroxyapatite Coated Titanium Pins Prevent Bacterial Colonization

Adnan Sevencan, Elif Kartal Doyuk, Nusret Kose

Eskisehir Osmangazi University, Eskisehir, Turkey

A-0398 Risk factors for complications following cat bite injuries of the hand

Isabella Fassola, Mojtaba Ghods

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Wrist Arthritis

Nation Competition 7

Saturday, 19 June 2021 | 13:30 - 14:15 CEST (GMT+2) | Channel 1

Chair: Max Haerle

Topic: Arthrodesis, Arthroplasty, Denervation, close with voting

SL dissociation

Nation Competition 8

Saturday, 19 June 2021 | 14:15 - 14:45 CEST (GMT+2) | Channel 1

Chair: Carlos Heras-Palou

Topic: Open approach, Arthroscopic approach, close with voting

Avascular proximal scaphoid pool

Nation Competition 9

Saturday, 19 June 2021 | 14:45 - 15:30 CEST (GMT+2) | Channel 1

Chair: Philippe Bellemere

Topic: graft, implant, salvage, close with voting

Closing ceremony

Saturday, 19 June 2021 | 15:30 - 15:45 CEST (GMT+2) | Channel 1

Poster Gallery

A-0160 Radiographic measurements of the normal distal radius: reliability of computer-aided CT versus physicians' radiograph interpretation

Nora Suojärvi, Nina Lindfors, Theresa Höglund, Robert Sippo, Eero Waris
Department of Hand Surgery, Helsinki University Hospital and University of Helsinki, Helsinki, Finland

A-0013 Improving hand trauma clerking using an electronic proforma: a full cycle clinical audit

Joshua Luck, Kate Spiteri, Annabelle Lim, Jamil Moledina, Roger Adlard
St George's Hospital, London, UK

A-0017 Unstable non-union of the scaphoid, does the DCSS may play a role?

Isidro Jiménez¹, Pedro J Delgado², José Medina³
¹ Hospital Universitario Insular de Gran Canaria, Las Palmas de Gran Canaria, Spain. ² Hospital Universitario HM Montepríncipe, Madrid, Spain. ³ Mutua de Accidentes de Canarias -MAC-. Las Palmas de Gran Canaria, Spain.

A-0018 Three-dimensional printed customised adjustable mallet finger splint: A cheap, effective and comfortable alternative.

Theodora Papavasiliou¹, Rushabh K Shah¹, Stelios Chatzimichail², Lauren Uppal¹, Jeffrey C.Y Chan¹
¹ Guy's and St Thomas' Hospitals, London, UK ; ² Imperial College, London, UK

A-0022 Nurse-led Steroid Injection Clinics: An Evaluation of Patient Perceptions and Financial Implications

Su Jeong¹, Kate Spiteri², Jamil Moledina²
¹ St George's University of London, UK; ² St George's University Hospitals NHS Foundation Trust, UK

A-0026 Predictive factors and clinical effects of diabetic hand: a prospective study with 1-year follow-up

Michiro Yamamoto¹, Yayoi Kato², Hitoshi Hirata¹, Jun Takeuchi²
¹ Nagoya University, Nagoya, Japan ² Sapporo Diabetes and Thyroid Clinic, Sapporo, Japan

A-0029 Management of coexisting Lipofibromatous Hamartoma on the median and ulnar nerve. Clinical case and literature review.

Ana Scott-Tennent De Rivas¹, Laura Prats Gispert^{1,2}, Amer Mustafa Gondolbeu^{1,2}, Pau Forcada Calvet^{1,2}, Marta Bonjorn Marti^{1,2},
¹ Hospital Universitari Arnau de Vilanova, Spain; ² Universitat de Lleida, Spain

A-0033 Clinical outcomes of thumb carpometacarpal joint arthroplasty with ligament reconstruction and tendon interposition and the transition of postoperative thumb metacarpal subsidence

Sho Kohyama¹, Toshikazu Tanaka², Kazuhiro Ikeda¹, Mio Kimura¹, Hiromi Mochizuki¹, Naoyuki Ochiai¹
¹ Kikkoman General Hospital, Department of Orthopaedic Surgery, Japan ² Kashiwa Hand Clinic, Japan

A-0036 The clinical results and surgical indication of volar rim plate fixation for distal radius fracture

Young Woo Kwon¹, Ji Hun Park¹, In Cheul Choi¹, Jong Woong Park¹
¹ Korea University College of Medicine, Seoul, South Korea

A-0037 Patient-reported outcomes one year after proximal interphalangeal joint arthroplasty for osteoarthritis

Notermans BJW¹, van der Oest MJW², de Boer HL³, Selles RW², the Hand-Wrist Study group*², van der Heijden EPA^{1,4}
¹ Radboudumc, Nijmegen, the Netherlands ² Erasmus MC, Rotterdam, the Netherlands ³ Xpert Clinic, the Netherlands ⁴ Jeroen Bosch Ziekenhuis, 's-Hertogenbosch, the Netherlands

A-0040 Undergraduate microsurgical training: a preliminary experience

Andrzej Żyłuk, Filip Flicinski, Konrad Czernikiewicz, Zbigniew Szlosser
Department of General and Hand Surgery, Pomeranian Medical University in Szczecin, Poland

A-0042 An assessment of usefulness of smartphone as a magnifying device for microsurgery training.

Kamil Leśniewski, Konrad Czernikiewicz, Andrzej Żyłuk
Department of General and Hand Surgery, Pomeranian Medical University in Szczecin, Poland

A-0046 Ultrasound based measuring method of scapholunate dislocation during scaphoid shift test

Raffael Labèr, Lisa Reissner, Ladislav Nagy, Andreas Schweizer
Department of Orthopaedics, Balgrist University Hospital, Forchstrasse 340, 8008 Zürich, Switzerland

A-0047 Transthyretin amyloidosis with Bifid Median Nerve as a cause of Bilateral Carpal Tunnel Syndrome: Hand surgeons warning Case Report

Andreu Triguero Espinosa¹, Silvia Lopez Marné¹, Alfred Llop Corbacho¹, Jose Moranas Barrero¹, Joaquim Casañas Sintés¹, José Luis Agulló Ferrer¹

¹ Bellvitge University Hospital, Hospitalet de Llobregat, Spain.

A-0050 A standardised hand fracture fixation training framework for surgical residents using novel 3D printed ex-vivo hand models: our experience as a unit.

Theodora Papavasiliou¹, Stelios Chatzimichail², Jeffrey C.Y Chan¹, Charles J Bain¹, Lauren Uppal¹ ¹ Department of Plastic Surgery, Guys' and St' Thomas' Hospitals, Westminster Bridge Rd, Lambeth, London SE1 7EH ² Department of Surgery and Cancer, Imperial College London, White City Campus, 80 Wood Lane, London W12 0BZ

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A-0051 Radiological analysis of silastic finger joint arthroplasties comparing Swanson and NeuFlex (C) implants; implant rotation identified as a moderately common problem.

Panagiotis Sgardelis Grey Giddins

Royal United Hospital Bath United Kingdom

A-0053 Carpal kinematics after replacing the scaphoid by a patient specific prosthesis - a 4D CT analysis

Philipp Honigmann^{1,2,4} Mathias Haefeli^{3,4} Marieke de Roo^{4,5} Joris Oonk⁴ Gustav Strijkers⁴ Johannes Dobbe⁴ Strackee SD⁵ Streekstra GJ^{4,6}

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A-0054 3D modeling in Hand Surgery – a comparison of data quality from multi-sliced computed tomography (MSCT) and cone beam computed tomography (CBCT) using different software

Philipp Honigmann^{1,2,3} Neha Sharma^{4,5} Mathias Haefeli^{3,6} Philipp Brantner^{5,7} Florian Thieringer^{2,4,5}

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A-0055 In-hospital 3D printed scaphoid prosthesis using medical-grade Polyetheretherketone (PEEK) biomaterial

Philipp Honigmann^{1,2,3} Neha Sharma^{2,4} Ralf Schumacher⁵ Jasmine Rueegg⁵ Mathias Haefeli^{3,6} Florian Thieringer^{2,4}

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A-0059 Tourniquet use in hand surgery - is it time to re-inflate the evidence?

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A-0063 COMPARISON OF SURGICAL TECHNIQUES IN ACUTE TENDINOUS MALLET FINGER

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A-0065 Implementation of WALANT surgery in a tertiary hand trauma center

Diogo Andrade Guimarães, Luís Vieira, Luís Ribeiro, Nuno Maria, Pedro Martins, Maria Manuel Mouzinho
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A-0071 The effects of subtotal tendon suture site isolation: an experimental study in rat

Aleksandr Zenchenko¹, Yuliya Cherniakova²

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A-0073 The Quadriga revisited: a cadaveric study on the anatomy and biomechanics of the Flexor Digitorum Profundus.

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A-0074 The efficacy of superficial flexor sheath infiltration injections for trigger finger.

K. T. M. Oo¹ T. Helliwell²

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A-0076 Ulcerating stasis dermatitis of the forearm associated with arteriovenous graft and central vein stenosis

Diogo Andrade Guimarães; Luís Ribeiro; Luís Vieira; Rui Barata; Maria Manuel Mendes; Pedro Martins; Maria Manuel Mouzinho

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A-0077 Evaluation of the treatment of osteoporosis after distal radius fractures

Yuta Nakamura¹, Kaoru Tada¹, Masashi Matsuta¹, Atsuro Murai¹, Hiroyuki Tsuchiya¹, Naoki Osamura², Seigo Suganuma³

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A-0081 Safety and feasibility of the injection through the dorsal webspace in the treatment of trigger digits: anatomical study.

Isidro Jiménez^{1,2}, José Medina^{1,2}, Gerardo L Garcés^{2,3}

¹ Hospital Universitario Insular de Gran Canaria, Las Palmas de Gran Canaria, Spain. ² Universidad de Las Palmas de Gran Canaria. Las Palmas de Gran Canaria, Spain. ³ Hospital Perpetuo Socorro. Las Palmas de Gran Canaria, Spain.

A-0083 Antibiotic Prophylaxis in Clean Hand Surgery: A Prospective Analysis of Major & Minor Complications

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A-0087 Systematic Review of Total Wrist Arthroplasty in Non-inflammatory Wrist Arthritis

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A-0090 The Effects of Upper Extremity Elevation on Intra-Cast Pressure and Digital Perfusion in a Fiberglass Short Arm Cast Model

BRIANA FRAM, WILLIAM WANG, ASIF ILYAS

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A-0092 Elbow flexion contracture in obstetric brachial plexus injury: Severity and progression

Tim Hems

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A-0096 The shape symmetry of the lunare: implications for the design of 3D printed patient-specific implants

Nazlı Tümer¹, Olivier Hiemstra², Yvonne Schreurs², Gerald A. Kraan², Amir A. Zadpoor¹, Johan van der Stok²

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A-0097 Flexor carpi radialis brevis muscle: a case report

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A-0102 Does circumferential cast prevent fracture redisplacement of reduced distal radius fractures? A retrospective multicenter study.

A.C. Berger¹, B. Barvelink¹, M. Reijman¹, T. Gosens², G.A. Kraan³, M.R. De Vries⁴, M.J. Verhofstad⁵, K.W.W. Lansink⁶, P.F.W. Hannemann⁷, J.W. Colaris¹

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A-0106 The collagenase treatment in Dupuytren's disease: Can we avoid surgery?

Antonio Dudley, Raquel Maroto, Javier Otero, Sergio Marcos, Julian Del Rio

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A-0108 1 & 2 Column Fusion - solution for the SLAC or SNAC Wrist; case series of 42 consecutive patients

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A-0109 Arthroscopic bone grafting of the scaphoid nonunion - high union rate despite the high proximal pole incidence and the humpback deformity

Robert Gvozdenovic¹, Dejan Susic¹

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A-0118 Serum inflammatory markers in the diagnosis and monitoring of hand osteomyelitis: a retrospective review of 146 cases

Matthew Wyman^{1,2}, Dallan Dargan^{1,2}, Diana Kazazzi¹, Jennifer Caddick¹, Victoria Giblin^{1,2}

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A-0122 Combined nerve transfer and grafting for shoulder reconstruction after traumatic injury to the supraclavicular brachial plexus

Tim Hems

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A-0124 Diagnosis of neurogenic thoracic outlet syndrome based on the clinical status

Ji Sup Hwang, Yohan Lee, Kee Jeong Bae, Jihyeung Kim, Hyun Sik Gong, Young Ho Lee, Goo Hyun Baek

Seoul National University College of Medicine, Seoul National University Hospital, Korea

A-0127 PIP arthroplasty: Comparison of complications, reoperations and revisions after surface replacing and silicone interposition arthroplasty

Olivia Helder¹, Miriam Marks¹, Andreas Schweizer², Daniel B. Herren³, Stephan Schindele³

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A-0139 Multiple surgical techniques used in the reconstruction of massive tissue defects after electrocution. Case report

(1,2) Mihaela Perteza, ² Dmitrii Leontii, ² Diana Al khazaleh, ² Alina Mihaela Stan, (1,2) Petru Ciobanu

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A-0141 A novel surgical technique for transolecranon fracture-dislocation of the elbow with concomitant radial head fracture

Young Ho Lee¹, Goo Hyun Baek¹, Jihyeung Kim¹, Ji Sup Hwang¹, Jung Eun Lee²

¹ Seoul National University Hospital, Seoul, South Korea ² Gachon Gill Hospital, Gyeonggi-do, South Korea

A-0142 Outcome after simultaneous nerve transfer of spinal accessory and intercostal nerve for preganglionic total arm type injuries in brachial plexus: a preliminary report

Young Ho Lee¹, Goo Hyun Baek¹, Jihyeung Kim¹, Ji Sup Hwang¹, Jung Eun Lee²

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A-0144 Radiological study of Weilby arthroplasty collapse and clinical relationship

Miguel Angel Martínez de la Torre, Norma Trigo Bermúdez, Carlos Antón Fernández, Enric Cruz Olivé

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A-0148 Unleashing the Bradford experience in the management of upper limb dog bites: a retrospective review

Malik Fleet, Zakir Shariff, Zabihullah Abdul

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A-0151 Long-term results of Sauvé-Kapandji procedure

Lisa Reissner, Andreas, Schweizer, Lea Estermann, Ladislav Nagy

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A-0153 Adherence to Upper-Limb Digital Surgery Local Safety Standards in Plastic Surgical Patients

Frederick Wyatt

Newcastle University

A-0154 Wrist and upper limb postures when falling

Grey Giddins Hugo Giddins
Royal United Hospitals, Bath, UK

A-0157 Remote hand therapy amid the COVID-19 pandemic

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A-0161 Is the arthroscopic treatment of scaphoid nonunion a reliable procedure?

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A-0165 Seasonal Impact on Surgical Site Infections and Wound Healing Disturbance in Carpal Tunnel Surgery: A Retrospective Cohort Study

Wolfgang Raher^{1,2}, Matthias Holzbauer^{1,2}, Oskar Kwasny^{1,2}, Dominik Duscher¹, Stefan M Froschauer^{1,2}
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A-0166 Diagnostic accuracy of history taking, physical examination and imaging for phalangeal, metacarpal and carpal fractures: a systematic review update.

Patrick Krastman¹, Nina M. Mathijssen³, Sita M.A. Bierma-Zeinstra^{1,2}, Gerald Kraan³, Jos Runhaar¹
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A-0170 Computer-Aided Three-dimensional Measurement of Carpal Alignment: measurement techniques and normal ranges

Robert Sippo, Theresa Höglund, Eero Waris
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A-0175 Radiofrequency electrothermal damage at wrist arthroscopy

Grey Giddins David Shewring Nick Downing
Royal United Hospitals, Bath, UK University Hospital of Wales, Cardiff, Wales Nottingham University hospital, Nottingham, UK

A-0181 Analysis of an end neuroma 6 months after capping with a bioresorbable polycaprolactone cap (NEUROCAP®) in a human model.

Samuel George¹, Ute Pohl¹, Dominic Power¹
¹ Queen Elizabeth Hospital, Birmingham, UK

A-0183 Versatility of the Supinator to Posterior Interosseus Nerve (SPIN) transfer.

Samuel George¹, Dominic Power¹
¹ Queen Elizabeth Hospital, Birmingham, UK

A-0185 Dislocation of the ulna head: our experience and treatment's algorithm

sandra pfanner, anna rizzo, prospero bigazzi, marco biondi, andrea poggetti
Hand Surgery and reconstructive Microsuregry Unit - AOU Careggi Hospital , Florence ITALY

A-0188 Surgical and Protocolized management of distal radius nonunion.

Juan María Pardo García¹, Diego Alonso Tejero², Verónica Jimenez Díaz³, Lorena García Lamas⁴, Miguel Angel Porras Moreno⁵ and David Cecilia López⁶.
Hospital Universitario Doce de Octubre, Madrid (Spain).

A-0197 Combined surgical approach for corrective osteotomy of malunited fractures of the distal radius

Oleg M. Semenkin^{2,1}, Sergey N. Izmalkov¹, Alexander N. Bratiichuk¹
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A-0199 The association between trauma and paediatric trigger thumb deformity; experience from a single tertiary referral hospital

Nadia Salloum, Pauline McGee, Wee Lam

Royal Hospital for Sick Children, Edinburgh, UK

A-0200 Targeted Muscle Reinnervation: A Novel Approach to the Management of a Superficial Branch of Radial Nerve Neuroma

Ye Ru Chin, Samuel George, Dominic Power
Queen Elizabeth Hospital Birmingham, UK

A-0201 Complex coronal body fracture-dislocation, “pilon-type”, of the hamate: a rare injury pattern leading to axial carpometacarpal instability.

Juan María Pardo García ¹, Miguel Angel Porras Moreno ², Gia Rodriguez Valero ³, Natalia Ruiz Mico ⁴
Hospital General de Villalba, Collado Villalba, Madrid (SP)

A-0203 3D guide design for the management of undisplaced scaphoid waist fractures. First experience in Chile.

Carlos Federico Morales Hackett ¹, Carolina Chavez Gatica ², Cristian Navarro Bravo ², Diego Cortes Carvajal ²
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A-0207 Outcomes of surgery for giant cell tumors of the tendon sheath within the hand.

Andrzej Zyluk
Department of General and Hand Surgery, Pomeranian Medical University in Szczecin, Poland

A-0209 Patients with a distal radius fracture who necessitate specialist referral and those who develop persistent pain after fracture healing

Rebecca Martin ¹ Emma Reay ¹
¹ James Cook University Hospital Middlesbrough United Kingdom

A-0211 Intra operative ultra sound study in peripheral nerve reconstruction: does a correlation between histology and ultrasonography exist?

Alessandro Crosio ¹, Francesco Maria Locatelli ², Federico Palumbo ³, Alessandra Fin ¹, Simona Odella ¹, Antonina Parafioriti ⁴, Pierluigi Tos ¹
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A-0212 Treatment of Cup Loosening in Ball and Socket Prosthesis using a massive Iliac Crest graft to reconstruct the Trapezium: Technique and first results

Vansh Kapila ¹, Bert Vanmierlo ², Chul Ki Goorens ³, Kjell Van Royen ⁴, Jean Goubau ⁵
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A-0213 How useful are inflammatory markers in hand infections?

Amenah Galo ,Maria Houlihan, Darren Chester (senior Author)
Queen Elizabeth Hospital Birmingham, United Kingdom.

A-0217 Splint therapy for carpal tunnel syndrome

Ryosuke Ikeguchi, Takashi Noguchi, Maki Ando, Koichi Yoshimoto, Bungo Otsuki, Shuichi Matsuda
Kyoto University, Kyoto, Japan

A-0223 Common Peroneal Nerve (CPN) Dynamic Decompression, Anatomical Landmarks and Surgical Outcomes

Madi El Haj, Ayman Khoury, Shawar Munther, Ido Volk, Sofia Vorobeitchik, Shai Luria
Hadassah Hebrew University Medical Center Jerusalem, Israel

A-0224 High Radial Nerve Injury – Nerve Transfer vs Nerve Decompression. The Role of Intraoperative Electrical Diagnostic studies on Decision Making

Madi El-Haj, Sofia Vorobeitchik, Ido Volk, Munther Shawar, Ayman Khoury, Shai Luria
Hadassah Hebrew University Medical Center Jerusalem, Israel

A-0225 Obliteration of the Scalene Triangle on Sagittal MRI is Correlated with Intraoperative Compressive Findings of the Brachial Plexus and Subclavian Artery in Patients With Neurogenic Thoracic Outlet Syndrome (NTOS)

Madi El-Haj, Ori Wald, Amit Korah, Ido Volk, Sofia Vorobeitchik, Nurith Hiller, Shai Luria
Hadassah Hebrew University Medical Center Jerusalem, Israel

A-0229 Percutaneous ultrasound guided section of the lacertus fibrosus for median nerve entrapment at the elbow

Thomas APARD¹, Olivier MARES², Paul MICHELIN³

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A-0231 Congenital Boutoniere deformity of thumb secondary to attenuation of the Extensor Pollicis Brevis tendon. A case report.

Antonio Dudley, Sergio Marcos, Claudio Peix, Raquel Maroto, Jens Cardenas

Hospital Universitario de la Princesa., Madrid, Spain

A-0234 Arthroplasty of the proximal interphalangeal joint with the Tactys® prosthesis: clinical and radiographic results with a mean follow-up of 5 years

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A-0235 Spontaneous tendon rupture of both extensor tendons of the index finger secondary to osteophytosis of a snac (Scaphoid Non Union Advanced Collaps) wrist

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A-0237 Rare finding of traumatic anterior luxation of the thumb carpometacarpal joint

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A-0243 Total brachial plexus lesion reconstruction with contralateral c7 transfer.

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A-0248 Skeletal Fixation in mutilated hand. Can intramedullary headless screw fixation be considered an alternative to K-wire fixation for definitive treatment in hand and finger replantation?

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A-0253 3000 years of brachial plexus lesions history

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A-0255 The steep learning curve in percutaneous A1 pulley release

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A-0256 The Association between Socioeconomic Deprivation and Congenital Differences of the Hand

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A-0257 Outcome predictors after surgery for non traumatic ulnar neuropathy at the elbow

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A-0260 What is The Association Between Surgeons Expertise and Complications in Lateral MIPO Technique for the Treatment of Diaphyseal Humerus Fractures?

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A-0264 Neglected and complicated mallet finger: comparison of treatment results with regenerative technologies

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A-0269 Isolated post-traumatic ulnar translocation of the carpus

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A-0277 Distal radius fracture: non-invasive surgical treatment over the plate

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A-0279 Thrombosis of persistent median artery as a cause of carpal tunnel syndrome

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A-0281 Outcome of nerve transfers in patients with cervical spinal cord injury – the Oswestry experience over the past 4 years

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A-0282 Microsurgical Anastomosis Rating Scale (MARS10): A novel scoring system for microsurgical training

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A-0283 The relationship between hand PROM improvement and health utility following surgery for Dupuytren's disease in the Netherlands and UK Hand Registry

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A-0285 ANATOMICAL VARIATIONS OF EXTENSOR POLLICIS BREVIS TENDONS IN D'QUERVAIN'S DISEASE. CASE REPORT AND REVIEW OF LITERATURE

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A-0296 The effect of reformatting axis of computed tomography scans on the measurement of deformities in scaphoid waist nonunion

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A-0302 The effectiveness and safety of bioabsorbable magnesium screw and K-wire within surgical treatment for Upper extremity fracture

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A-0303 Introduce robotic technology in neurological hand rehabilitation (a review article)

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A-0304 Denervation of the proximal interphalangeal joint, results from 54 cases in 42 patients.

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A-0305 Fingers' defects coverage with digital artery perforator flaps

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A-0308 The course of the radial nerve at the humeral shaft: an anatomic study using 3D reconstruction

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A-0310 How to reduce the failure rate of perforator based propeller flap? Modify the flap design.

Jikang Park, Jaehyun Jeon
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A-0311 Radial collateral artery perforator-based propeller flap for elbow soft tissue reconstruction

Jikang Park, Jaehyun Jeon
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A-0316 Improving Hand Therapy: Application of a hand therapy robot to intensify therapy

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A-0325 Development and evaluation of a new smartphone application for the (primary) management of hand emergencies: practical, safe and effective?

Nicolas Bigorre, Adrien Linder, Jérôme Brunet, Jérôme Jeudy, Fabrice Rabarin, Bruno Cesari, Yann Saint-Cast, Guy Raimbeau, Alexandre Petit
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A-0328 Is Smith's fracture of distal radius a fracture of necessity?

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A-0330 Syndactylies - A review of associated malformations

1 - Miguel Matias; Pedro Pires, Catarina Ladeira, Regina Duarte; 2 - Miguel Matias, Juliana Sousa, Maria Manuel Mouzinho
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A-0337 Efficacy of superficial transposition of ulnar nerve using flexor fascial sling

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A-0339 In-hospital production of 3D-printed devices for hand- and wrist-rehabilitation

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A-0341 Lacertus fibrosus: release with percutaneous technic under ultrasound

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A-0342 Associated ligament lesions in intra articular distal radius fractures: arthroscopy classification

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A-0346 capitellum reconstruction with osteochondral flap from the distal femur. a clinical case.

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A-0348 Minimally invasive volar plate osteosynthesis (MIPO) with pronator quadratus sparing versus conventional volar approach with pronator quadratus repair for distal radius fractures

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A-0353 Scaphoid fracture with SL ligament involvement: instability or laxity? Role of arthroscopy and pinning

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A-0359 Zone II Flexor Tendon Repair by Modified FDS repair Technique followed by Place and active holding: a case series

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A-0360 Treatment of chronic Osteomyelitis with vascularized bone flaps in one-stage-procedure

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A-0362 Arthroscopic suture tape augmentation of dorsal intercarpal ligament in scapholunate instability

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A-0363 risk factor for developing complex regional pain syndrome type I

Nadyeh Ahrari, Ali Dianat, Fereydoun Layeghi

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A-0364 Complications and patient reported outcomes following trapeziectomy with a Weilby sling: a prospective cohort study

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A-0370 Long-term clinical results of 33 thumb replantations

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A-0372 Psychometric Properties and Cross-Cultural Adaptation of the Patient-Rated Tennis Elbow Evaluation (PRTEE); A Systematic Review and Meta-analysis

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A-0374 A Systematic Review of Self-Reported Outcome Measures Assessing Disability Following Hand and Upper Extremity Conditions in Persian Population

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A-0377 Novel scoring techniques for the Patient Evaluation Measure PROM may deliver rare interval-level measurement in hand trauma

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A-0385 A cross sectional study of radiographic anatomy of wrist in Southern Chinese population as compare with Caucasians

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A-0386 Could an unresolved personal injury claim affect outcomes of hand therapy and hand surgery?

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A-0391 Simultaneous surgical wrist approach in layered compression syndrome of ulnar nerve for concomitant median-ulnar nerve compression

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A-0393 Long-term impact of trapeziectomy on the wrist joint: blinded assessment of radiological osteoarthritis in operated and non-operated wrists

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A-0395 Indirect Utility Assessment for Hand Conditions: Mapping the Patient Evaluation Measure onto the EQ-5D

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A-0396 TREATMENT OF FRACTURE DISLOCATION OF THE PROXIMAL INTERPHALANGEAL JOINT OF THE HAND WITH DYNAMIC EXTERNAL FIXATOR

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A-0408 Wrist arthrodesis to improve hand position and function in patients with upper limb spasticity – a point of technique

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A-0410 Is there a difference in the outcome of CMC I resection and treatment with prosthesis after 12 months?

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A-0411 Management of upper extremity injuries during COVID-19

Gordana Georgieva, Bisera Nikolovska, Blagoja Srbov, Tomislav Jovanoski, Igor Peev, Sofija Pejкова

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A-0415 The Efficacy of Skyline and Carpal Shoot Through Views for Detecting Dorsal Screw Penetration During Volar Plating

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A-0416 "Quadrant Flap" for Fingertip Reconstruction in Macrodactyly: Technique and Case Report

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A-0419 Myiasis Infestation after hand elective surgery: Report of a Case

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A-0422 Endoprosthesis of elbow joint for tumors of the bone

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A-0423 Combined Effect of Surgical Angiogenesis and Stem Cell Seeding of Acellular Nerve Allografts on Return of Motor Function in a Rat Sciatic Nerve Defect Model

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A-0424 Results of total elbow arthroplasty in case of its tumor lesions

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A-0429 Enzymatic Debridement of Hand Burns

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A-0433 Trapeziectomy for trapeziometacarpal osteoarthritis: systematic review of outcomes and complications at minimum 5-year follow-up

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A-0437 Extremely rare neuritis ossificans of the ulnar nerve at the cubital tunnel: a case report

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A-0438 Reconstruction of segmental large forearm defects with Free Vascularized fibular graft. Clinical results.

Maria Ladogianni, Panagiotis Kanellos, Ioannis Kotsalis, Saradis Spyridonos

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A-0442 Surgical repair and immediate active rehabilitation protocol for distal triceps ruptures

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A-0444 Outcome of multi-fragmentary head and neck fractures of index and middle finger metacarpals

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A-0449 Complications in flexor tendon injuries in zones I to III: a retrospective case series analysis

Tamara Hauri ¹, Bernadette Tobler-Ammann ¹, Maurizio Calcagni ², Vera Beckmann-Fries ², Alexandre Kämpfen ³, Sebastian Hediger ³, Lorena Schrepfer ³, Esther Vögelin ¹

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A-0451 Hamatometacarpal fracture-dislocation: does delayed treatment yield poor results? A retrospective study

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A-0455 Is nerve repair still needed if a digital nerve is injured? A systematic review

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A-0457 Rapid Implementation of Virtual Consultations During the COVID-19 Pandemic: An International Survey of Hand Surgeons and Therapists and Implications for Future Practice

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A-0460 Chronic Pain after Surgically Managed Distal Radius Fracture is Associated with Pain Catastrophizing, Depressive Symptoms, and Fear of Movement

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A-0461 Our initial experience of NovoSorb Biodegradable Temporising Matrix for reconstruction of complex soft tissue defects in the hand

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A-0462 Restoration of shoulder flexion/elevation with free functional gracilis transfer for partial paralysis of deltoid muscle after proximal humerus fracture fixation: a case series of eight patients.

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A-0468 The treatment results of distal radius fractures treated with an implant of own idea, DRONes hybrid nail plate - preliminary report

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A-0471 The Effect of Nerve Surgery on Opioid and Medication Use in Patients with Chronic Pain due to Nerve Injuries

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A-0472 Outcome of distal interphalangeal joint arthrodesis

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A-0473 Optimization of hand trauma care at a Major Trauma Centre (MTC) in the UK during the COVID-19 pandemic and implications for future clinical practice

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A-0475 Improving patient outcomes by minimally invasive surgical techniques

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A-0476 Geissler classification: poor interobserver variability and not the most important tool to recommend surgery

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A-0478 Lost fingers: The declining number of replantations in Germany

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A-0481 Corrective osteotomy of the distal radius in the growing skeleton

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A-0483 Ray reconstruction by bone graft and silicone implant after traumatic massive bone loss of P1 or P2

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A-0484 Management of post-axial Type B polydactyly during COVID-19

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A-0485 Percutaneous Arthrolysis as a therapeutic alternative to proximal interphalangeal stiffness in fingers

Marta Marti-Puente, Anna Escolà-Benet, Gian Carlo Fallone-Lapi, Marc Valls-Mellado, Joaquim Rodríguez-Miralles.

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A-0487 Arthroscopic Pisiform Excision in pisotriquetral osteoarthritis

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A-0490 A rare case of radial shaft osteomyelitis caused by Klebsiella pneumoniae

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A-0492 A Bayesian approach for diagnostic accuracy of malignant peripheral nerve sheath tumors: a systematic review and meta-analysis

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A-0493 Infrared thermography's applications in Hand Surgery

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A-0498 Ray reconstruction using autologous bone graft and silicone implant after traumatic massive bone loss of P1 or P2.

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A-0501 Free osteocutaneous flaps from the toes for the reconstruction of osteomyelitic composite defects in the hand

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A-0509 Reducing tension in primary nerve repair; an animal and computer model to measure tension and its distribution along the nerve

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A-0514 Adapting to the Covid-19 Pandemic in a Major UK Hand Unit - Redesigning a Trauma Service and Extending WALANT Surgery

Cameron Clarke, Mohamed Abdelrazek, Michael Gallagher, Ricardo Tejero, Lauren Uppal

Guy's and St Thomas' NHS Foundation Trust

A-0516 Botulinum Toxin for preoperative evaluation in the treatment of upper limb spasticity in children and adults

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A-0519 Management of phalanx non-unions: our experience

André Chambel, Miguel Botton

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A-0521 Nerve transfers in upper motor neuron syndrome: topographic anatomy.

Olga Politikou¹, Leopold Harnoncourt¹, Fabian Fritsch¹, Matthias Luft¹, Vlad Tereschenko¹, Christopher Festin¹, Lena Hirtler², Oskar C. Aszmann¹

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A-0523 Re-neurolysis and infiltration of autologous lipoaspirate around the median nerve in secondary recurrent carpal tunnel syndrome.

Olivier F.E. Gostelie¹, Pepijn Sun², Geraldine L. Nanninga², Sjoerd B. Paulusma², Joris A. van Dongen³, Jean Bart Jaquet⁴, J Henk Coert³

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A-0527 Percutaneous radiofrequency ablation of the posterior and anterior interosseous nerves for chronic wrist pain: a novel technique

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A-0529 Kinematic analysis of scapholunate interosseous ligament reconstruction techniques

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A-0531 Comparative Kinematic analysis among scapholunate ligament reconstruction techniques using internal brace

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A-0534 Factors affecting the final outcomes after reconstruction of the median and ulnar nerve at the level of the forearm: Analysis of 41 patients.

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A-0536 Outcomes of Thoracic Outlet Decompressions – a 10-year Review in A Single Centre

Jing SS, Yasmeen S, O'Sullivan J, Chaudhry T, Madura T, Power D, Tan S

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A-0537 Dorsal plating and autologous bone graft for volar unstable fracture-dislocation of the PIP joint

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A-0538 Use of a cross-finger flap for the treatment of fingertip amputation

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A-0545 The significance of the bacterial agent in pyogenic flexor tenosynovitis – a retrospective case study of 102 patients

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A-0546 The biomechanical strength of the side-to-side lengthening tenodesis in spasticity surgery

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A-0554 Congenital contracture of the ulnar digits and its differential diagnosis with Volkmann's contracture

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A-0555 Chitosan tubes enriched with fresh skeletal muscle fibers: efficacy in acute and delayed peripheral nerve repair

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A-0556 Clinical results of arthroscopic treatment of peripheral TFCC tear

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A-0562 Which tendon plasty has the best outcome? A comparison of four tendon plasty techniques in a large cohort of patients with symptomatic trapeziometacarpal osteoarthritis.

Lisa Hoogendam ^{1,2,3}, Thijs Bink ¹, Jurriaan de Lange ¹, Ruud W. Selles ^{1,2}, Joost W. Colaris ⁴, J. Michiel Zuidam ¹, Steven E.R. Hovius ^{3,5}, Hand-Wrist Study Group, Brigitte van der Heijden ^{5,6}

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A-0564 Comparison Of Outcomes Between Absorbable Versus Non-Absorbable Sutures For Skin Closure In Patients Undergoing Trigger Finger Release

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A-0565 Forearm rotation improves after a corrective osteotomy in patients with a symptomatic distal radius malunion

E.M. van Es ¹, M. Dijkhof ¹, J.S. Souer ², F.J. van Ewijk ³, L. Hoogendam ⁴, H.P. Slijper ², R.W. Selles ^{4,5}, Hand-Wrist Study Group, J.W. Colaris ¹

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A-0573 Description and evaluation of the reproducibility of two new monitoring indexes for ball & socket type trapezio-metacarpal prostheses

Axel VAN VLIET ¹ Benjamin HADDAD ² Simon RATTIER ³ Samuel ZRIBI ⁴ Emmanuel DAVID ⁵

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A-0575 Random dorso-radial flap for the first web space of the hand

Margit Singer, Mónica Francés Monasterio, José Miguel Casarrubios Barrera, Javier Fernández-Palacios

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A-0576 Complications after distal radius fractures stabilized by volar locking plate with a minimum follow-up of 1 year

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A-0579 Proximal pole nonunion of the scaphoid treated by solely Extracorporeal Shockwave therapy (ESWT)

Christoph Pezzei ¹, Stefan Quadlbauer ^{1,2,3}, Thomas Beer ¹, Rudolf Rosenauer ^{1,2,3}, Josef Jurkowitsch ¹, T. Hausner ^{1,2,3}, M. Leixnering ¹

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A-0584 PREVENTING SMAC WRIST: CORRECTIVE OSTEOTOMY OF THE SCAPHOID

Eudaldo Gallo Del Valle, Alfonso Prada Cañizares, Miguel Ángel Porras Moreno, Enrique Peces, Félix Tomé Bermejo

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A-0586 Treatment of fracture-dislocations of proximal interphalangeal joint applying dynamic mini external fixator: clinical and radiographic results

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A-0592 Time to improvement after corticosteroid injection for trigger finger.

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A-0593 The influence of shoulder arthrodesis on the function of the upper limb in adult patients after a brachial plexus injury – a systematic review of the literature.

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A-0595 The treatment of Dupuytren's disease in a specialized department

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A-0597 Index PIP arthroplasty associated to thumb delta phalanx osteotomy to restore pulp to pulp pinch in Apert's hands

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A-0600 Management of acrometastasis in hand, our experience in 9 cases

Valverde D, Sala A, Pardo A, Dominguez E

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A-0602 Reconstruction of forearm large skeletal defects by free vascularized fibular graft

Panagiotis Konstantinou, Charalampos Pitsilos, Triantafyllos Katsimentzas, Charalampos Pavlopoulos, Pericles Papadopoulos, Konstantinos Ditsios

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A-0603 Results of surgical treatment in 15 cases of simultaneous olecranon and radial head fractures.

Konstantinos Chitas, Vasilis Balamotis, Triantafyllos Katsimentzas, Panagiotis Konstantinou, Pericles Papadopoulos, Konstantinos Ditsios

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A-0610 Factors associate with disability and pain intensity in patients with CRPS

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A-0614 Early result of the MOTEC® implant in post-traumatic osteoarthritis of the wrist

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A-0615 Immunofluorescence analysis of sensory nerve endings in the ligaments and capsule of the human elbow joint

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A-0617 Versatility of free vascularized bone grafts in hand reconstruction

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A-0620 Reconstruction of a phalangeal composite defect using a vascularized osteochondral graft from the ulnar base of Vth metacarpal

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A-0624 Epidemiology of upper extremity nerve injuries in Finland between 1998 to 2016.

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A-0626 Morphological risk factors for scaphoid fracture after fall onto outstretched hand

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A-0629 The impact of COVID pandemic on rates of deliberate self-harm in a tertiary hand unit.

P Tan, CT Brewster, R Jose

Birmingham University Hospital

A-0630 WRIST TRAUMA SEQUELAE: A DISCURSIVE LITERATURE REVIEW

Simona Odella, Francesco Locatelli, Alessandra Fin, Jacopo Flore, Elia Creta, Alessandro Crosio, Pierluigi Tos

ASST PINI CTO MILANO ITALIArComplex Operative Unit Hand surgery and reconstructive Microsurgery

A-0632 How arthroscopy has modified distal radius fractures treatment in our practice

Simon Odella, Alessandro Crosio, Jacopo Flore, Ugo Dacatra, Pierluigi Tos

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A-0634 BIOMECHANICAL ANALISYS OF JESS CONSTRUCTS ON METACARPAL BONE FRACTURES AND CLINICAL RESULTS

Simona Odella, Alessandro Crosio, Elia Creta, Federica Olivero, Matilde Cacianti, Pierluigi Tosrn

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A-0635 Persistent median artery - Evidence Based Anatomy

Bernard Solewski^{1,2}, Maciej Lis^{1,2}, Jakub R. Pękala^{1,2}, Karolina Brzegowy^{1,2}, Sigurd S. Lauritzen^{1,2}, Mateusz Hołda², Jerzy Walocha^{1,2}, Krzysztof A. Tomaszewski^{1,3,4}, Przemysław A. Pękala^{1,2,4}, Mateusz Koziej^{1,2}

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A-0639 Ball-and-Socket replacement for thumb carpometacarpal osteoarthritis: A comparison between the single and dual mobility design

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A-0640 Symptom Duration Affects Central Sensitization and Kinesiophobia in Patients with Thoracic Outlet Syndrome

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A-0642 Effects of Trunk Compensatory Movements on Modified Mallet Score in Children with Obstetric Brachial Plexus Palsy

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A-0643 The reconstruction of the thumb nailed in malignant skin tumors, using a dorsular flap.

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A-0645 Surgical treatment of neuroma in the upper extremity – patient characteristics, outcome of surgery and association with sleep ability, and limitations to perform work and daily activities

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A-0646 Management of Distal Radius Osteomyelitis with Vascularized Free Fibula

Marco Guidi, Inga Besmens, Florian Früh, Esin Rothenfluh, Maurizio Calcagni.

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A-0648 Surgery of Schwannoma in the upper extremity - consistency between preoperative magnetic resonance imaging (MRI) and pathoanatomical diagnosis (PAD)

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A-0650 Scaphoid non-union humpback deformity correction using 3D planning and patient-specific guides: a prospective case series of 10 patients

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A-0652 Ligament, nerve and DCSS sparing dorsal capsulotomy of the wrist

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A-0653 Clinical Outcomes of Lunocapitate Arthrodesis: A Retrospective Study

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A-0655 Ulnar Sided Wrist Pain: A Diagnostic Evaluation Guide from 30+ Years of Experience

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A-0659 ANALYSIS OF PREDISPOSING FACTORS TO THUMB CMC JOINT OSTEO-ARTHRITIS: WHAT ABOUT JOINT CONGRUENCY?

Jane C Messina, Mattia Radici, Andrea Zagarella, Alessandra Menon, Paolo Arrigoni, Mauro Gallazzi, Pietro S Randelli

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A-0662 Thumb height measurement for (implant) arthroplasties for CMC thumb joint osteoarthritis

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A-0663 Ulnar blood supply, descriptive anatomical study

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A-0664 Arthroscopic repair of the ulnar collateral ligament of the thumb: our experience

Caloia Martin, Ronconi Sergio, Caloia Hugo, González Scotti Diego, Barrozo German, Chamorro Gerónimo, Meritano Alejandro, Guevara Gonzalo.

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A-0669 Thumb restoring using a monolithic metacarpal anchored titanium 3D printed prosthesis

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A-0672 Closed hand fractures management: tertiary trauma centre experience

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A-0678 Volar Locking Plate Fixation for Distal Radius Fractures Distal to the Watershed Line with an Intact Volar Lunate Facet

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A-0680 Microsurgical vascularized free fibula as an optimal method for closing extensive bone defects in children

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A-0683 Joint survival analysis and clinical outcome of total joint arthroplasties with the Isis implant in males patients only.

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A-0684 Joint survival analysis and clinical outcome of total joint arthroplasties with the Isis implant in patients with scaphotrapeziotrapezoid osteoarthritis.

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A-0688 Readability of Persian Oxford Elbow Score Using Health Literacy Questionnaire

Amir R. Kachooei, 2. Maryam Emadzadeh, 3. Pedram Borhani 4. Niloufar Vaziri 5. Seyed Reza Habibzadeh Shojaei 6. Hosein Bavar 7. Denise Eygendaal 8. Babak Shojaie

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A-0693 The impact of COVID-19 pandemic in the nature of hand trauma

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A-0695 REVERSE HOMODIGITAL FLAPS FOR THUMB AND FINGERS SOFT TISSUE DEFECTS RECONSTRUCTION

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