

Berlin Germany

17–21 June 2019

**14th IFSSH
11th IFSHT
TRIENNIAL
CONGRESS**

Berlin



2019

COMBINED FESSH CONGRESS

Building Bridges – Together Hand in Hand



Programme



FESSH
Federation of
European Societies for
Surgery of the Hand



DGH
DEUTSCHE GESELLSCHAFT
FÜR HANDCHIRURGIE

DAH **TH**
Deutsche Arbeitsgemeinschaft für Handtherapie e.V.

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Free Congress WIFI
Network IFSSH-IFSHT2019
Password: medartis

Welcome Address



Prof. Jörg van Schoonhoven

The German Society for Hand Surgery has the honor and pleasure to host the 14th Triennial Congress of the IFSSH together with the 11th Triennial Congress of the IFSH from June 17th to 21st 2019 in Berlin. We invite you not only to actively participate in an extraordinary scientific meeting but to meet friends, connect with hand surgeons and learn about the different perspectives of hand surgery from all over the world as well. According to the mission of our congress "Building bridges – together hand in hand" we are delighted to welcome you as our guest in the outstanding city of Berlin!

Prof. Max Haerle

It is our aim to allow as many hand surgeons as possible the report of their scientific and clinical experience. At the same time we want to bring together all the various disciplines of hand surgery from all parts of the world. All main topics of hand surgery will be included into the scientific program. In addition to lectures of invited international experts there will be various workshops, instructional courses and new formats, like the "Educational Monday". Feel encouraged to send us your abstracts, share your experience with us and actively take part in this unique event. Be curious!

Prof. Andreas Eisenschank

With its extraordinary history – full of contrasts and significant changes - Berlin is one of the most fascinating cities in the world. But the German capital provides not only a great variety of cultural and entertainment options, but also all the necessary requirements for a successful meeting. The scientific and the accompanying social program will provide a great opportunity for inspiring exchange under colleagues as well as making new friends. Experience it for yourself!

Natascha Weihs, Beate Jung

It is a great privilege for the German Society of Hand Therapy to invite Hand Specialists from all over the world to come to Berlin for the next Triennial Congress of IFSSH and IFSH. Berlin is an example of two communities with different approaches and ways of living having successfully joined together to form a vibrant, forward-looking society that is open to new impulses and willing to meet new challenges. There could be no better place to join and intensify the cooperation between surgeons and therapists as well as the experience of therapists from different cultures and countries. We are certain that it will be an unforgettable event. See you in Berlin!

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Jörg van Schoonhoven

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DAHTh, Coordination)
Hanne Wendt (Support)
DAHTh, Subgroup Berlin
(Support)

Silent Auction Committee

Anne Wajon (President IFSHT)
Dagmar Fucik (DAHTh)
Monika Schäfer (DAHTh)

General Information

Date

17–21 June 2019

Venue

CityCube Berlin, Germany
www.citycube-berlin.com

Congress WIFI

Network IFSSH-IFSHT2019
Password: medartis

Congress Website

www.ifssh-ifsht2019.com

Opening hours

Monday	08:00–23:00
Tuesday	07:00–19:00
Wednesday	06:30–19:00
Thursday	06:30–19:00
Friday	06:30–17:30



Congress Programme

Please find the detailed programme on the Website as interactive Web-Programme or as PDF-file. Furthermore it is available in the Congress App. Please consider the instructions on the following pages.

IFSHT Silent Auction

Once more the IFSHT Silent Auction will be hosted in 2019. The goal is to generate funds which will be used to support speakers from countries with limited resources attend the Congress in London, 2022.

Not only is the IFSHT Silent Auction an opportunity for people to mingle and meet colleagues from other countries, but it allows us to appreciate the generosity of Congress participants who often donate unique and interesting items from their countries.

Item registration: From Monday to Wednesday on the Entrance Level

Silent Auction: On Thursday in the Exhibition during the Lunch Break (12:30–14:00)

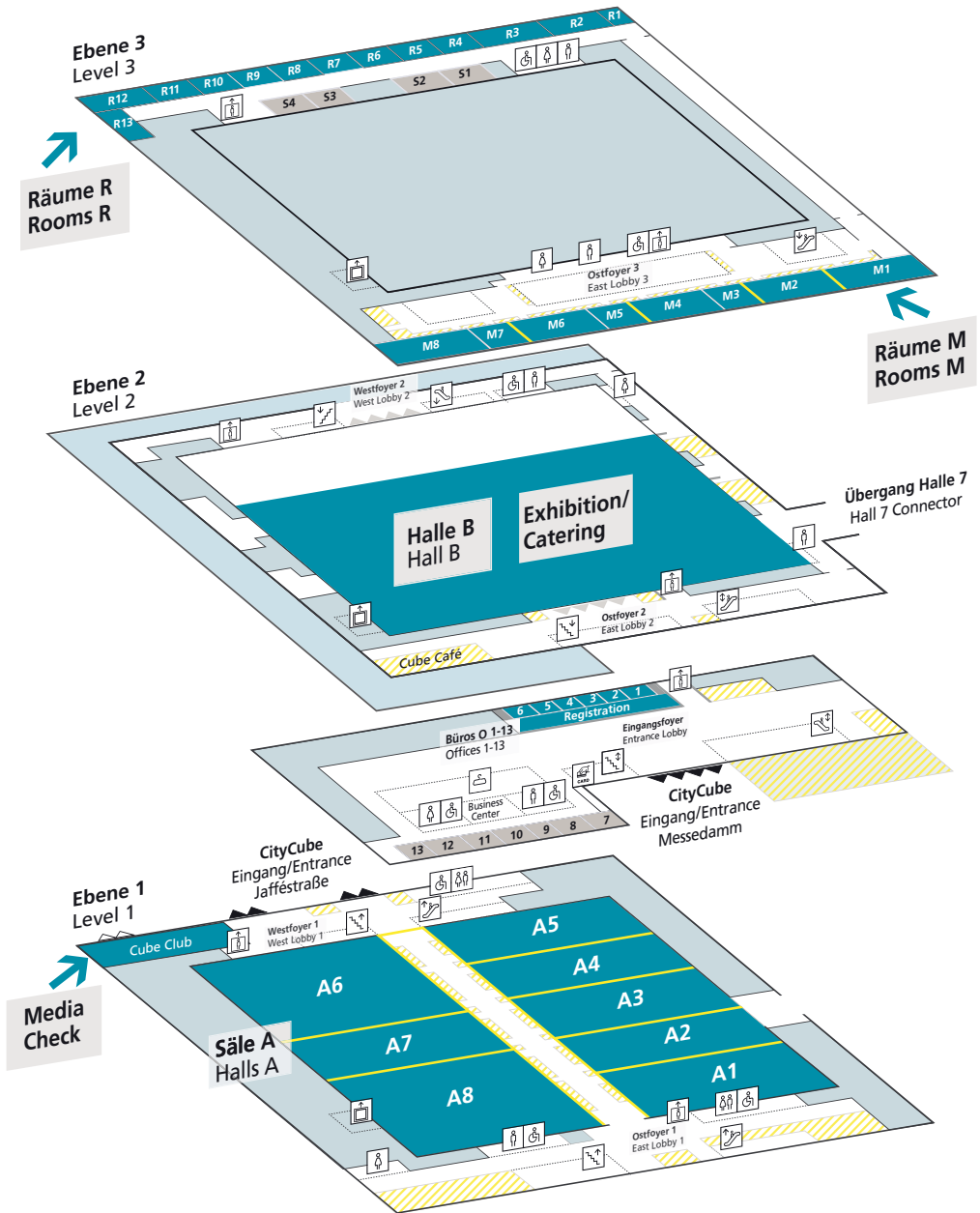


Follow us via @IfsshIfsht2019 and share your thoughts
with #IFSSH2019 #IFSHT2019



We are also on LinkedIn – let's connect!

Overview Congres Venue – CityCube



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-  Create your own schedule
-  Don't miss any lectures using the reminder function
-  Receive notifications of short-term program changes and stay up-to-date
-  Create and store notes about sessions and lectures
-  Use the integrated room and industry floor plans to get to your destination faster

DOWNLOAD

Get the Synopticcon Multi Congress APP

... for free in the stores of IOS and Android – simply scan the QR code with your smartphone.

After installing the app the desired congress can be downloaded from a list of available congresses.



Programme Information

1. Select Congresses
2. Scroll down the list and touch the event icon of 14th IFSSH and 11th IFSHT Triennial Congress to enter the site
3. Select Open Congress to bring up the conference programme by session
4. Leave the congress via „More“ icon

App – User Guide

Sorted by...



Navigate to your lecture

Touch one session to get the details of the talks and speakers.



Create your own schedule

Use the Favorites feature to create your own programme plan. You can add complete sessions or individual lectures, speakers and industry to your favorites. Do not miss a lecture and use the reminder function.



Your programme plan & favorites

You want more?

In the menu „More“ you will find more information about the congress, your personal notes, as well as the push notifications.



Plans

Here you will find all room and industry floor plans listed.

Push-Notifications

If you receive push notifications for the congress, you will find them here in an overview to read.



Notes

Store your own notes on sessions and lectures and edit them in the „More“ menu.



Congress Highlights

Monday

Educational Monday 8 sessions, 1.5 hours each, two rooms. Designed for the next generation of hand surgeons.

Opening Ceremony & Welcome Cocktail The best start into our Congress week!

Tuesday

Surgery and Therapy Combined Session I Tendon – past, present and future

Building Bridges Session Experience therapists from all continents.

Swanson Lecture „Challenges!?“ by Professor Dr. Steven Hovius

CSSH Pavilion The Chinese Society for Surgery of the Hand welcomes you in the Pavilion (Exhibitor) during the breaks.

Berlin Night A unique networking and party evening in the Kühlhaus.

Wednesday

Presidential Guest Lecture „Critical Issues for a World we want: What do we know? What shall we do? What may we hope?“ by Professor Dr. Klaus Leisinger

DGH Pavilion The German Society for Hand Surgery welcomes you in the Pavilion (Exhibitor) during the breaks.

Society Assemblies and Meetings IFSSH, IFSHT, FESSH, EFSHT, DGH, DAHTH

Thursday

IFSHT Silent Auction The goal is to generate funds which will be used to support speakers from countries with limited resources.

Surgery and Therapy Combined Session II Assessments in the upper extremity – Can assessments be used to build bridges between patients, professions and researchers?

FESSH Pavilion The Federation of European Societies for Surgery of the Hand welcomes you in the Pavilion (Exhibitor) during the breaks

Congress Dinner & Party – Ritz Carlton Hotel Dinner in two great locations in the Ritz Carlton Hotel and as culmination a big party in the festive Ballroom.

Friday

IFSSH Closing Ceremony Chance to win a complimentary ticket for the IFSSH Triennial Congress 2022 for all „Doctor-in-Training-Participants“ (winners have to be present during the Closing Ceremony)

IFSHT Closing Ceremony

Satellite and Society Meetings

Monday, 17 June 2019

	Room	Time
IFSSH ExCo Meeting	R2	09:00-11:30
IFSHT Pre ExCo Meeting	R4	09:00-17:00
EFSHT Council Meeting	R5	09:00-17:00
Press Conference	R3	11:00-12:00

Tuesday, 18 June 2019

	Room	Time
IFSHT Speakers Lunch	M8	12:30-14:00
Pioneers Lunch	Cube Café	12:30-14:00
Newborn Compartment Syndrome	M6+7	12:45-13:45
Consensus Group Assessment of Wrist	R4	18:00-19:00
DAHTh Regionalgruppenleiter-Treffen	R2	18:30-19:30

Wednesday, 19 June 2019

	Room	Time
FESSH Hand Trauma Centres Committee Meeting	M8	08:00-09:30
Handchirurgie Scan Herausgebersitzung	R4	10:30-11:30
HaMiPLa Herausgebersitzung	R4	11:30-12:30
Editorial Board and Authors' Meeting "Living Textbook of Hand Surgery"	R3	12:30-14:00
IFSHT Delegates Lunch Room	R12+R13	12:30-14:00
EFSHT Council Meeting	M6-7	13:30-19:00
IFSHT Council / Delegates Meeting with following Reception	M1-3	13:30-19:00
DAHTh General Assembly	A4	14:00-15:30
FESSH Delegates Assembly	A3	16:45-18:45
IFSSH Delegates Council Meeting	A4	16:45-18:45
DGH General Assembly	A2	16:45-18:45

Thursday, 20 June 2019

	Room	Time
Journal of Hand Surgery Meetings	R2	10:00-16:00
EWAS General Assembly	M8	12:30-14:00
Assembly Handchirurgie weltweit e.V.	R4	13:00-14:00

Friday, 21 June 2019

	Room	Time
IFSHT Post ExCo Meeting	R4	08:00-10:00
IFSSH ExCo Meeting	R4	12:30-14:30

Weekly Overview – Surgery

	Monday, 17 June	Tuesday, 18 June	Wednesday, 19 June		
6:30			Registration		
7:00			Concurrent Scientific Sessions		
7:30		Registration			
8:00	Registration	Concurrent Scientific Sessions			
8:30					
9:00	Educational Monday		Combined Session Flexor Tendon IFSSH & IFSHT		
9:30					
10:00	Coffee Break	Swanson Lecture	Coffee Break		
10:30		Coffee Break	Industry & Poster Exhibition	Concurrent Scientific Sessions	
11:00	Educational Monday	Concurrent Scientific Sessions			
11:30					
12:00	Lunch Break	Lunch Break / Industry Workshops			
12:30					
13:00	Educational Monday	Concurrent Scientific Sessions		Concurrent Scientific Session	
13:30					
14:00	Coffee Break	Coffee Break		Presidential Guest Lecture	
14:30					
15:00	Educational Monday	Concurrent Scientific Sessions		DGH General Assembly	FESSH Delegates Assembly
15:30					
16:00	Coffee Break	Coffee Break			
16:30					
17:00	Concurrent Scientific Sessions				
17:30					
18:00	Opening Ceremony				
18:30					
19:00	Welcome Cocktail				
19:30					
20:00					
20:30					
21:00		Berlin Night			
21:30					
22:00					
23:00					

■ Scientific Programme
 ■ Meeting
 ■ Highlight Session
 ■ Social Programme

		Thursday, 20 June			Friday, 21 June				
		Registration			Registration			6:30	
FESSH Sessions	Industry & Poster Exhibition	Concurrent Scientific Sessions		Silent Auction	Concurrent Scientific Sessions		Industry & Poster Exhibition	7:00	
								7:30	
								8:00	
		8:30							
		9:00							
		9:30							
		10:00							
		10:30							
FESSH Sessions		Concurrent Scientific Sessions			Concurrent Scientific Sessions			11:00	
11:30									
12:00									
	Lunch Break / Industry Workshops		Lunch Break		12:30				
					13:00				
	Combined Session Assessment IFSSH & IFSHT		Concurrent ScientificSession		13:30				
					14:00				
					14:30				
	Coffee Break				15:00				
					15:30				
	Concurrent Scientific Sessions		IFSSH Closing Ceremony		16:00				
					16:30				
					17:00				
IFSSH Delegates' Council Meeting					17:30				
					18:00				
					18:30				
					19:00				
					19:30				
	Congress Dinner & Party				20:00				
			20:30						
			21:00						
			21:30						
			22:00						
			23:00						

Weekly Overview – Therapy

	Monday, 17 June	Tuesday, 18 June	Wednesday, 19 June
7:30		Registration	Registration
8:00	Registration	Combined Session Flexor Tendon IFSSH & IFSHT	Free Paper Session: Best research
8:30			
9:00	Educational Monday	Swanson Lecture	Coffee Break
9:30			
10:00	Coffee Break	Coffee Break	Concurrent Scientific Sessions
10:30			
11:00	Educational Monday	IFSHT Welcome Message Building Bridges Session	Lunch Break / Industry Workshops
11:30			
12:00			DAHTH General Assembly (MJV)
12:30	Lunch Break	Lunch Break / Industry Workshops	
13:00	Educational Monday	Concurrent Scientific Sessions	IFSHT Council / Delegates Meeting
13:30			
14:00	Coffee Break	Coffee Break	Workshop
14:30			
15:00	Educational Monday	Concurrent Scientific Sessions	
15:30			
16:00			
16:30			
17:00			
17:30			
18:00	Opening Ceremony		
18:30			
19:00	Welcome Cocktail	Berlin Night	
19:30			
20:00			
20:30			
21:00			
21:30			
22:00			
23:00			

		Thursday, 20 June		Friday, 21 June		
		Registration		Registration		7:30
	Industry & Poster Exhibition	Concurrent Scientific Sessions	Silent Auction	Concurrent Scientific Sessions	Industry & Poster Exhibition	8:00
						8:30
		Coffee Break		Coffee Break		9:00
		Concurrent Scientific Sessions		Innovation Session		9:30
						10:00
		Lunch Break / Industry Workshops		Lunch Break		10:30
						11:00
EFSHT Council Meeting		Combined Session Assessment IFSSH & IFSHT		IFSHT Closing Ceremony		11:30
						12:00
		Coffee Break				12:30
	Concurrent Scientific Sessions	13:00				
			13:30			
			14:00			
		14:30				
		15:00				
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		21:00				
		21:30				
		22:00				
		23:00				

14th Annual IFSSH / 11th Annual IFSHT 2019

a case based symposium on the role of processed nerve allograft for mixed, motor and sensory nerve repair

Thursday, June 20 • 12:45pm-13:45pm

Room A2

Lunch provided

Processed nerve allograft (Avance® Nerve Graft) has an established body of clinical evidence, including a multicenter study demonstrating 86% meaningful recovery in upper extremity nerve repair.¹ Panelists will review the clinical data and share their own experiences, techniques, and algorithms. The session will close with a dedicated question and answer period that will allow you to join the discussion.

Faculty

Kiran Anderson, MD, Gentofte Hospital, Hellerup, Denmark

Joaquim Casañas, MD, Teknon Medical Center, Barcelona, Spain

Ivan Ducic, MD, PhD, Axogen Medical Director & Washington Nerve Institute, Washington DC, USA

Jeffrey Greenberg, MD, MS, Indiana Hand To Shoulder Center, Indianapolis, USA

Visit Axogen at stand #4

Reference: 1. Cho, et al. Functional outcome following nerve repair in the upper extremity using processed nerve allograft. *J Hand Surg Am*. 2012 Nov;37(11):2340-9.

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Programme Monday, 17 June 2019

	A6-8	A1	A2
8:00			
8:30			
9:00		Nerve Surgery	All around the Scaphoid
9:30			
10:00			
10:30	Coffee Break		
11:00		Teaching Orthotic Fabrication	Operative Treatment of Distal Radius Fractures
11:30			
12:00			
12:30	Lunch Break		
13:30		Endoprosthetic Replacement of Wrist and Finger Joints	All around Fractures of the Fingers
14:00			
14:30			
15:00	Coffee Break		
15:30		Arthroscopic Operations of the Wrist	Ultrasound Diagnostics
16:00			
16:30			
17:00			
17:30			
18:00	Opening Ceremony		
18:30			
19:00			
19:30	Welcome Cocktail (CityCube)		

Educational Monday

Ready for a unique experience? Then join our Educational Monday on 17 June: 8 sessions, 1.5 hours each, two rooms. Choose your preferred subject, register now and add an extra day to your IFSSH & IFSHT Congress experience.

The Educational Monday is designed for the next generation of hand surgeons, but of course all other interested medical doctors are more than welcome, too!

You can expect a full day of practical knowledge transfer consisting of several workshops and presentations. The programme offers a highly educational but also innovative and state-of-the-art mixture of content.

Please find the programme details on the Website.

Session 1 – Room A1

09:00–10:30 Nerve surgery
Axogen Inc.

Session 2 – Room A2

All around the scaphoid
Acumed

10:30–11:00 Coffee Break

11:00–12:30 Teaching orthotic fabrication across the globe
Orfit Industries

Operative treatment of distal radius fractures – main principles
IBRA

12:30–13:30 Lunch Break

13:30–15:00 All around endoprosthetic replacement of the wrist and finger joints
Stryker GmbH & Co. KG / KLS Martin Group / BIRG

All around fractures of the fingers and metacarpals
Johnson & Johnson Medical Devices Companies / DePuy Synthes

15:00–15:30 Coffee Break

15:30–17:00 Arthroscopic operations of the wrist
KARL STORZ SE & Co. KG / EWAS

Ultrasound diagnostics in hand surgery
Canon Medical Systems GmbH



Scientific Programme – Tuesday, 18 June 2019

	A6-7	A1	A2	A3	A4	A5			
8:00	Combined IFSSH IFSHT Tendon								
8:30									
9:00									
9:30									
10:00	Swanson Lecture								
10:30	Coffee Break – Visit of Industry and ePoster Exhibition								
11:00	FESSH/IFSSH Instructional course	Dupuytren	Young Surgeons	DRUJ	Burns	Scaphoid Nonunion			
11:30									
12:00									
12:30	Lunch Break and Industry Workshops – Visit of Industry and ePoster Exhibition								
13:00									
13:30									
14:00	FESSH/IFSSH Instructional course	Dupuytren	Nerve	Microsurgery	Nerve Transfers	Women in Hand Surgery			
14:30									
15:00									
15:30									
16:00	Coffee Break – Visit of Industry and ePoster Exhibition								
16:30	FESSH/IFSSH Instructional course	Dupuytren	Congenital	Microsurgery	Burns	Humanitarian Aid			
17:00		Innovation							
17:30									
18:00									
18:30									
...									
21:00	Berlin Night (Kühlhaus)								

	A8	M1-3	M4-5	M6-7	M8		
						8:00	
						8:30	
						9:00	
						9:30	
						10:00	
Coffee Break – Visit of Industry and ePoster Exhibition						10:30	
	Keynote: Building bridges					11:00	
						11:30	
						12:00	
Lunch Break and Industry Workshops – Visit of Industry and ePoster Exhibition						12:30	
				Newborn Compartment Syndrome		13:00	
						13:30	
	Scaphoid Nonunion	Brain	Orthosis Workshop	Phalangeal Fractures		14:00	
						14:30	
							15:00
			... ISOFORCE			15:30	
Coffee Break – Visit of Industry and ePoster Exhibition						16:00	
	Scaphoid Fracture	Chronic Pain Management	Workshop ISOFORCE Outrigger	PIP Joint Stiffness		16:30	
							17:00
							17:30
						18:00	
						18:30	
						...	
Berlin Night (Kühlhaus)						21:00	

Please find the detailed Congress Programme in the App



or as PDF-file on the website



Scientific Programme – Tuesday

Tuesday, 18 June 2019

08:00–10:00 **HS11 Tendon – Joint Session IFSSH-IFSHT** A6-7

Chair: Gwendolyn van Strien (Netherlands), Zsolt Szabo (Hungary), Jörg van Schoonhoven (Germany)

Q&A

- | | | | | |
|------|-------|-----|--|-----|
| 4219 | 08:00 | 10' | History of tendon surgery and tendon rehabilitation
<i>Martin Franz Langer (Germany)</i> | 0' |
| 4220 | 08:10 | 10' | Tendon healing and suture biology – understanding surgery and rehabilitation for improving outcomes
<i>Jason Wong (United Kingdom)</i> | 0' |
| 4221 | 08:20 | 10' | What has changed in tendon surgery since the millennium?
<i>Jin Bo Tang (China)</i> | 0' |
| 4222 | 08:30 | 10' | How to learn and teach tendon sutures
<i>James Chang (United States of America)</i> | 0' |
| 9505 | 08:40 | 15' | Early active flexor tendon rehabilitation – a change of therapy based on evidence
<i>Gwendolyn van Strien (Netherlands)</i> | 0' |
| 9506 | 08:55 | 12' | Manchester Short Splint – do we still need to include the wrist in the postop splint?
<i>Zoe Clift (United Kingdom)</i> | 0' |
| 9507 | 09:07 | 12' | Relative Motion flexion Splint for zone 2 flexor tendon injuries
<i>Julianne Howell (United States of America)</i> | 0' |
| 9268 | 09:19 | 6' | Return to work after flexor tendon injury in Zone I, II and III: Early passive motion versus controlled active motion – a cross sectional study
<i>Tamara Hauri (Switzerland), A. Patomella, V. Beckmann-Fries, C. Meier, M. Calcagni</i> | 0' |
| 9058 | 09:25 | 6' | Can a mobile application improve adherence, self-efficacy and range of motion after flexor tendon repair? A randomized controlled multicenter trial.
<i>Jonas Svingen (Sweden), J. Rosengren, C. Thuresson, M. Arner</i> | 0' |
| 4223 | 09:31 | 0' | Panel Discussion: Tendon surgery around the world – status quo, challenges & chances | 29' |

10:00–10:30 **HS12 Swanson Lecture** A6-7

Chair: Daniel Nagle (United States of America), Andreas Eisenschenk (Germany), Brigitte van der Heijden (Netherlands)

Q&A

- | | | | | |
|------|-------|-----|---|----|
| 4224 | 10:00 | 30' | Challenges!
<i>Steven Hovius (Netherlands)</i> | 0' |
|------|-------|-----|---|----|

10:30–11:00 **Coffee Break**

Visit of Industry and ePoster Exhibition

Scientific Programme – Tuesday

Tuesday, 18 June 2019

11:00–12:30 IC11 Instructional Course I A6-7

Chair: *Francisco del Pinal (Spain), Hermann Krimmer (Germany), Sandra Pfanner (Italy)*

Q&A

4000	11:00	8'	Anatomy of the fracture <i>Gregory Bain (Australia)</i>	0'
4001	11:08	8'	Radiology of the fractured radius <i>Mark Ross (Australia)</i>	0'
4002	11:16	8'	Classification <i>Giillaume Herzberg (France)</i>	
4003	11:24	8'	The evidence <i>Tamara Rozental (United States of America)</i>	0'
	11:32	0'	Discussion	12'
4005	11:44	8'	Orthopedic treatment when <i>David Warwick (United Kingdom)</i>	0'
4006	11:52	8'	Is there a role for K-wires and Ex-Fix <i>Frederic Schuind (Belgium)</i>	0'
4007	12:00	8'	Volar locking plates. Basic concepts <i>Hermann Krimmer (Germany)</i>	0'
4008	12:08	8'	Intramedullary devices <i>Scott Wolfe (United States of America)</i>	0'
	12:16	0'	Discussion	14'

11:00–12:30 PS11 Panel: Dupuytren: Surgery in times of collagenase and PNF A1

Chair: *Martin Richter (Germany), Vincent Rod Hentz (United States of America), Caroline Leclercq (France)*

Q&A

4202	11:00	10'	When is collagenase better than PNF? <i>NN</i>	0'
4203	11:10	10'	When is PNF better than collagenase? <i>Paul Werker (Netherlands)</i>	0'
	11:20	0'	Discussion	15'
4205	11:35	10'	Recurrence: universal Criteria? <i>Nash Naam (United States of America)</i>	0'
4206	11:45	10'	Why has the Diathesis disappeared? <i>Caroline Leclercq (France)</i>	0'
4207	11:55	10'	Will we ever cure Dupuytren's Disease? <i>Duncan Angus McGrouther (Singapore)</i>	0'
4204	12:05	10'	Is there any Indication left for regional Fasciectomy? <i>David Warwick (United Kingdom)</i>	0'
	12:15	0'	Discussion	15'

Scientific Programme – Tuesday

Tuesday, 18 June 2019

11:00–12:30 **PS16 Young Surgeons – Future in Hand Surgery** **A2**

Chair: *James Chang (United States of America), Adrian Obladen (Germany), Elisabeth Haas (Germany)*

Q&A

- 4150 **11:00** 6' New concepts in reconstructive Handsurgery 2'
James Chang (United States of America)
- 1939 **11:08** 6' The Effect of Financial and Material Support on Research Quality in Upper
 Extremity Surgery: A Bibliometric Analysis of the Journal of Hand Surgery Over
 a 10-Year Period 2'
Lee Osterman (United States of America), M. Gaspar, P. Kane
- 1931 **11:16** 6' Distribution of hand surgical knowledge by an open access textbook 2'
Richarda Böttcher (Germany)
- 1190 **11:24** 6' An increasing burden of bureaucracy due to health insurances in Swiss
 hand surgery practice:a comparative study over 5 years 2'
Stefano Lucchina (Switzerland), C. Fusetti, M. Guidi
- 1796 **11:32** 6' Comparison of Hand Surgery Exposure in U.S. Plastic and Orthopaedic
 Residency Programs 2'
Steven Koehler (United States of America), N. Shah, K. Krucoff, S. Mithani
- 1511 **11:40** 6' FESSH Travel Fellow Award: continued training in hand surgery 2'
Belen Garcia-Medrano (Spain), A. Atzei, F. Polo Simon, P. Delgado Serrano
- 4156 **11:48** 6' Future in Handsurgery 2'
Philippe Liverneaux (France)
- 1133 **11:56** 6' Microsurgery training with smartphone 2'
Ali Cavit (Turkey), S. Capkin, T. Kaleli
- 1610 **12:04** 6' Training in Microsurgery 2'
*Konstantinos Tolis (Greece), S. Spyridonos, I. Triantafyllopoulos, A. Galanos,
 E. Fandridis, F. Giannoulis, P. Kanellos, I. Dontas*
- 1595 **12:12** 6' A Study of Impact of Prolonged Repetitive Training on Microsurgical Skills
 of Residents in a Laboratory Setting 2'
Wendy Teo (Singapore), A. Lahiri, A. Chong
- 21 **12:20** 6' The 100 Most Impactful Papers in Hand and Upper Extremity Surgery over
 the Last 25 Years: A Bibliometric Analysis 2'
Steven Koehler (United States of America), N. Shah, J. Newman, B. Diebo

11:00–12:00 **PS105 DRUJ Ulna Impaction** **A3**

Chair: *Goo H. Baek (South Korea), Michael Sauerbier (Germany), Mireia Esplugas (Spain)*

Q&A

- 1246 **11:00** 3' Interpretation of Ulnocarpal Stress Test in Different Forearm Rotation 1'
Hyunseok Seo (South Korea [ROK]), T. Kim, H. Kang, J.-Y. Lee
- 1258 **11:04** 6' Changes in Ulnar Variance after a Triangular Fibrocartilage Complex Tear 2'
Hyunseok Seo (South Korea [ROK]), H. Kang, T. Kim, J. Lee

Scientific Programme – Tuesday

Tuesday, 18 June 2019

276	11:12	6'	Arthroscopic wafer resection for ulnar impaction syndrome <i>Byungsung Kim (South Korea [ROK]), K. Yun, W. Cho</i>	2'
744	11:20	6'	Preliminary results after ulnar shortening osteotomy using a 'low-profile' locking plate with an ulnopalmar approach <i>Athanasios Terzis (Germany), F. Neubrech, J. Sebald, M. Sauerbier</i>	2'
1043	11:28	6'	Ulnar shortening osteotomy as treatment for ulnar impaction syndrome. An 8-year follow-up. <i>Pedro Jesús Jiménez Hidalgo (Spain), J. Oteo, P. Merino, C. Llarena Barroso</i>	2'
575	11:36	6'	Non-Union and Reoperation after Ulna Shortening Osteotomy <i>Svenna Verhies (United States of America), S. Özkan, K. Eberlin, N. Chen</i>	2'
565	11:44	6'	Does Degeneration of Triangular Fibrocartilage Complex Improve after Ulnar Shortening Osteotomy? <i>Che Ho Lee (South Korea [ROK]), J. Kim, H. Seok, K. Bae, H. Gong, Y. Lee, G. Baek</i>	2'
457	11:52	6'	Comparison of Clinical Outcomes after Ulnar Shortening Osteotomy for Ulnar Impaction Syndrome With or Without Arthroscopic Debridement <i>Young Hak Roh (South Korea [ROK]), S. Hong, H. Gong, G. Baek</i>	2'

12:00–12:30 PS138 Panel: DRUJ Shortening or Wafer? A3

Chair: Goo H. Baek (South Korea), Michael Sauerbier (Germany),
Mireia Esplugas (Spain)

Q&A

4199	12:00	10'	Arthroscopic Wafer Procedure <i>Michel Levadoux (France)</i>	0'
4200	12:10	10'	Ulna shortening <i>Frank Nienstedt (Italy)</i>	0'
4201	12:20	10'	Face to face	0'

11:00–12:30 PS18 Burns A4

Chair: Bert Reichert (Germany), Teodor Stamate (Romania),
Jong Woong Park (South Korea)

Q&A

4061	11:00	16'	Early surgical treatment offers best results <i>Bert Reichert (Germany)</i>	0'
4062	11:16	16'	Hands off the Hand Burn! How a delayed approach can help preserve tissue and improve long-term function <i>Ludwik Branski (United States of America)</i>	0'
4063	11:32	0'	Panel Discussion	10'
595	11:42	6'	Classification of Electrical burns injuries of the Upper Limb <i>Barbara Jemec (United Kingdom), T. Ahmed, S. Khondoker, A. Kalam</i>	2'
1568	11:50	6'	Burn depth determination by Hyperspectral Imaging <i>Dominik Promny (Germany), M. Billner, N. Hofmann, B. Reichert</i>	2'

Scientific Programme – Tuesday

Tuesday, 18 June 2019

- 874 11:58 6' Enzymatic Debridement for Hand Burns: Function and Quality of Life One Year After Trauma 2'
Tomke Cordts (Germany), B. Ziegler, Y. Diehm, S. Fischer, L. Harhaus, U. Kneser
- 1355 12:06 6' Split thickness skin graft from the instep region: no recommendation in pediatric palmar burn 2'
Evi M. Morandi (Austria), C. Tasch, E. Schwabegger, G. Djedovic, G. Pierer, E. Baur
- 808 12:14 6' The use of Dermal Regeneration Template (DRT) in the reconstruction of post-traumatic soft tissue defects of the dorsum aspect of the hand/and or fingers 2'
Hussein Choughri (France), E. Sawaya, A. Dahmam, P. Pelissier
- 1288 12:22 6' Utilization of a Dermal Substitute (Hyalomatrix) in Pediatric Upper Extremity Procedures 2'
Joshua Abzug (United States of America), R. Freed, A. Case, D. Hogarth

11:00–12:30 PS24 Scaphoid Nonunion 1 A5

Chair: Fraser Leversedge (United States of America), Arnold H Schuurman (Netherlands), Frederic Schuind (Belgium)

Q&A

- 1760 11:00 6' Pathways to Nonunion of a Scaphoid Fracture 2'
Stephanie Spence (United Kingdom), T. Davis, S. Scaphoid Non Union Group
- 1623 11:08 6' Is there a correlation between duration of scaphoid fracture non-union and degenerative changes of the wrist? 2'
Amin Kheiran (United Kingdom), J. Dias, D. Ngo, R. Bindra, C. Wildin, A. Ullah, B. Bhowal
- 113 11:16 6' Autologous Cancellous Bone Graft and Headless Compression Screw Fixation for Treatment of Scaphoid Waist Nonunion 2'
Chi Hoon Oh (South Korea [ROK]), S. Han, I. Hong, E. Baek, M. Kim
- 1714 11:24 6' The outcome of bone graft surgery for non-union of fractures of the scaphoid 2'
Michael Elvey (United Kingdom), T. Davis, B. Scaphoid Non-Union Group
- 1974 11:32 6' Comparing non-vascularized scaphoid reconstruction for scaphoid nonunion with or without an intraoperative, single shock wave therapy (ESWT) – preliminary results 2'
Marion Mühldorfer-Fodor (Germany), J. van Schoonhoven, K. Prommersberger
- 1144 11:40 6' Treatment of Unstable Scaphoid Nonunion Using Volar Locking plate 2'
Young Woo Kwon (South Korea [ROK]), J. Park, I. Choi, J. Park
- 185 11:48 6' Treatment of scaphoid non-unions by an anterior graft of the 1,2-intercompartmental suprapetrotic artery vascularized bone graft 2'
Camilo Chaves (France), G. Asmar, F. Billac, M. Falcone

Scientific Programme – Tuesday

Tuesday, 18 June 2019

- | | | | | |
|------|-------|----|---|----|
| 960 | 11:56 | 6' | Vascularized Thumb Metacarpal Periosteal Flap for Scaphoid Nonunion in Adolescents: An Anatomical Study and Prospective Cohort Study of 16 Patients
<i>Sergi Barrera Ochoa (Spain), G. Mendez-Sanchez, A. Rodriguez-Baeza, X. Mir-Bullo, J. Knörr, J. Bertelli, F. Soldado</i> | 2' |
| 525 | 12:04 | 6' | Treatment of Proximal Pole Scaphoid Nonunion with Capsular-Based Vascularized Distal Radius Graft
<i>Loukia Papatheodorou (United States of America), D. Sotereanos</i> | 2' |
| 992 | 12:12 | 6' | Midterm results of scaphoid reconstruction using a free vascularised osteochondral medial femoral condyle flap
<i>Karlheinz Kalb (Germany), A. Wiebel</i> | 2' |
| 1757 | 12:20 | 6' | Free vascularized osteocartilaginous and osteoperiosteal medial femoral condyle graft for recalcitrant scaphoid non-union – Clinical and radiological outcome
<i>Marco Keller (Austria), G. Schmidle, M. Gabl, R. Arora, T. Kastenberger</i> | 2' |

11:00–11:15 **HS17 IFSHT Opening** A8

Chair: Anne Wajon (Australia), Dorit Aaron (United States of America), Natascha Weihs (Germany), Beate Jung (Germany)

11:20–12:45 **PT11 Building Bridges** A8

Chair: Susan de Klerk (South Africa), Caroline W Stegink Jansen (United States of America)

- | | | | | |
|------|-------|----|---|----|
| | 11:20 | 0' | Introduction | 6' |
| 9400 | 11:26 | 6' | Service delivery and collaboration with China
<i>Cecilia Li (Hong Kong)</i> | 0' |
| 9401 | 11:32 | 6' | Education and service delivery
<i>Amol Sangekar (India)</i> | 0' |
| 9402 | 11:38 | 6' | Practice pattern: survey results from our member countries to provide as broad an overview of the European hand therapy situation
<i>Saara Raatikainen (Finland)</i> | 0' |
| 9403 | 11:44 | 6' | Hand Therapy Education and Service Examples (Columbia)
<i>Carolina Molano (Colombia)</i> | 0' |
| 9404 | 11:50 | 6' | Hand Therapy education and service delivery (South Africa)
<i>Susan de Klerk (South Africa)</i> | 0' |
| | 11:56 | 0' | Q&A | 6' |
| 9405 | 12:02 | 6' | Hand Therapy service delivery (Australia)
<i>Lara Griffiths (Australia)</i> | 0' |
| 9406 | 12:08 | 6' | Service delivery and access (Practice pattern)
<i>Caroline W Stegink Jansen (United States of America)</i> | 0' |
| 9407 | 12:14 | 6' | Hand Therapy Service Delivery and Education in Guatemala
<i>Marta Beatriz Pineda (Guatemala)</i> | 0' |

Q&A

Scientific Programme – Tuesday

Tuesday, 18 June 2019

9408	12:20	6'	Hand therapy service example (Ghana):Treatment of complex finger wound <i>Robert Sowa (Ghana)</i>	0'
9409	12:26	6'	'Teaching Hand Surgery in Developing Countries – Experience of the British Foundation of International Reconstructive Surgery and Training (BFIRST) <i>Wee Leon Lam (United Kingdom)</i>	0'
	12:32	0'	Q&A	6'
	12:38	0'	Closing	5'

12:30–14:00 Lunch Break and Industry Workshops

Visit of Industry and ePoster Exhibition

12:45–13:45 **PS149 Newborn Compartment Syndrome – Unrecognized? – Untreated?**

M6+7

Chair: *Marybeth Ezaki (United States of America), Wiebke Hülsemann (Germany)*

				Q&A
5035	12:45	5'	Introduction <i>Wiebke Hülsemann (Germany)</i>	0'
5036	12:50	5'	What do we know? Meta-Analysis of literature <i>Richarda Böttcher (Germany)</i>	0'
5037	12:55	5'	Early findings and development in the first year of life <i>Marybeth Ezaki (United States of America)</i>	0'
5038	13:00	5'	The sequelae – how to treat <i>Marybeth Ezaki (United States of America)</i>	0'
5039	13:05	10'	Results of the first survey <i>Wiebke Hülsemann (Germany)</i>	0'
5040	13:15	0'	Round table: Consequences of literature, clinical experience, and survey: developing a treatment algorithm together <i>Marybeth Ezaki (United States of America), Batia Yaffe (Israel), Wiebke Hülsemann (Germany), Andrea Jester (United Kingdom), Marianne Arner (Sweden), Richarda Böttcher (Germany)</i>	20'
5041	13:35	10'	The future: Shall we continue with the research? <i>Richarda Böttcher (Germany)</i>	0'

14:00–16:00 **IC12 Instructional Course II**

A6-7

Chair: *Jose Joaquin Diaz Lopez (Mexico), Yukio Abe (Japan), Pedro Jose Delgado Serrano (Spain)*

				Q&A
4010	14:00	8'	Spanning plates <i>Scott Edwards (United States of America)</i>	0'
4011	14:08	8'	Anterior rim fractures <i>Jorge Orbay (United States of America)</i>	0'
4012	14:16	8'	Dorsal rim fractures <i>Jesse B Jupiter (United States of America)</i>	0'

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4013	14:24	8'	Multiplating in severe articular fractures <i>Nicholas Pulos (United States of America)</i>	0'
	14:32	0'	Discussion	8'
4015	14:40	8'	Management of the open fracture and bone defect <i>Rames Mattar Jr. (Brazil)</i>	0'
4016	14:48	8'	Radio-carpal dislocation <i>Mark Henry (United States of America)</i>	0'
4017	14:56	8'	Common errors in plating <i>Robert Medoff (United States of America)</i>	0'
4018	15:04	8'	Fractures in the elderly <i>Rohit Arora (Austria)</i>	0'
	15:12	0'	Discussion	8'
4020	15:20	8'	Mini approaches <i>Gustavo Mantovani (Brazil)</i>	0'
4021	15:28	8'	Arthroscopic management <i>Yukio Abe (Japan)</i>	0'
4022	15:36	8'	Ulnar fracture <i>Francisco del Pinal (Spain)</i>	0'
4023	15:44	8'	DRUJ instability in DRF <i>Shohei Omokawa (Japan)</i>	0'
	15:52	0'	Discussion	8'

14:00–16:00 PS12 Dupuytren 1

A1

Chair: Gary Pess (United States of America), Nicola Felici (Italy),
Patricia Eadie (Ireland)

Q&A

480	14:00	6'	Collagenase dose related correction of flexion deformity in Dupuytren's contracture: A prospective randomized study <i>Nash Naam (United States of America), A. Massoud</i>	2'
508	14:08	6'	The evaluation of Dupuytren's contracture with ultrasonography for safety of Collagenase Clostridium Histolyticum injection <i>Issei Nagura (Japan), T. Kanatani, Y. Harada, A. Inui, Y. Mifune, R. Kuroda</i>	2'
1696	14:16	6'	Satisfaction with collagenase for Dupuytren contracture disease A patient related outcome analysis <i>Fernando Davila (Spain), D. Ferreno-Marquez, J. Ruiz-Zafra, D. Gil-Ruiz, H. Fahandezh-Saddi</i>	2'
79	14:24	6'	Advanced Techniques in Percutaneous Needle Fasciotomy and Collagenase – Going Beyond the MP Joint <i>Gary Pess (United States of America)</i>	2'
1950	14:32	6'	Is the use of whole vial of collagenase Clostridium histolyticum dissolved in 1.0 ml of solvent safe and effective? <i>Ales Fibir (Czech Republic)</i>	2'

- 900 14:40 6' Actualization results of our prospective study with collagenase clostridium histolyticum: serie of 100 cases, 5 years follow-up 2'
Monica Fernandez Alvarez (Spain), M. De la Red Gallego, M. Sanchez Crespo, J. Couceiro Otero, H. Ayala Gutierrez, O. Velez Garcia, F. Del Canto Alvarez
- 1129 14:48 6' A successful use of collagenase injection multiple fingers contractures in a child in the course of a generalized collagenopathy and Arnold Chiari Malformation Type I 2'
Kaja Gizewska-Kacprzak (Poland), I. Walaszek
- 289 14:56 6' Needle fasciotomy for Dupuytren's contracture- a prospective cohort study of 58 fingers with a median follow-up time of 6.5 years 2'
Anna Zachrisson (Sweden), A. Ibsen-Sörensen, J. Stromberg
- 354 15:04 6' Percutaneous needle fasciotomy in Dupuytren disease: A follow up of the direct outcomes considering recurrence and complications 2'
Holger C. Erne (Germany)
- 169 15:12 6' New Developments in the Minimal invasive Treatment of Severe Dupuytren's Recurrences 2'
Wolfgang Lenze (Germany), J. Pattke, C. Kremser
- 1429 15:20 6' Results on Dupuytren disease course from a five-year follow-up cohort study 2'
Dieuwke C. Broekstra (Netherlands), P. Werker, E. van den Heuvel
- 1306 15:28 6' Outcomes of Repeated Treatment in Dupuytren's Disease; a Comparison with Initial Treatment 2'
Nienke Mendelaar (Netherlands), R. Poelstra, C. van Nieuwenhoven, H. Slijper, R. Feitz, S. Hovius, R. Selles
- 1764 15:36 6' A new finger-preserving procedure as an alternative to amputation in recurrent severe Dupuytren's contracture of the small finger 2'
Isam Atroshi (Sweden), A. Eiriksdottir
- 2004 15:44 6' Evidence of microcirculatory effects of postoperative exercise therapy after partial fasciectomy in patients with Dupuytren's Disease using Hyperspectral Imaging 2'
Inga Langner (Germany), C. Sicher, S. von Podewils, T. Eydner, S. Kim, A. Eisenschenk, M. Juenger, G. Daeschlein
- 1464 15:52 6' Anatomy, frequency and distribution pattern of plantar fibromatosis (Ledderhose's disease) 2'
Martin Franz Langer (Germany), S. Oeckenpöhler, B. Wieskötter

14:00–15:00 PS128 Nerve Repair

A2

Chair: Joaquim Casanas (Spain), Peter C. Amadio (United States of America), Hans-Günther Machens (Germany)

Q&A

- 1130 14:00 6' Iatrogenic Injuries of Motor or Mixed Motor/Sensory Nerves 2'
Chye Yew Ng (United Kingdom), J. Singh, A. Fowler, F. Wu, S. Akhtar

Scientific Programme – Tuesday

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1241	14:08	6'	Recovery of Infraclavicular Brachial Plexus Injury after Anterior Shoulder Dislocation <i>Feiran Wu (United Kingdom), J. Singh, C. Ng</i>	2'
1547	14:16	6'	Excellent functional recovery of posterior interosseous nerve injury after periprosthetic radial fracture by using antebrachial cutaneous nerve graft <i>Jento Wang (Taiwan)</i>	2'
1789	14:24	6'	Radial Nerve Palsies Associated with Paediatric Supracondylar Humeral Fractures: A Caution in the Interpretation of Neurophysiological Studies <i>Emily Duggan (United Kingdom), R. Dolan, A. Moosa, H. Giele</i>	2'
695	14:32	6'	Peripheral nerve torsion <i>Jong Woo Kang (South Korea [ROK]), H. Sung, J. Baek, J. Park</i>	2'
838	14:40	6'	Brachial plexus injury associated with thoracic surgery <i>Takashi Shimoe (Japan), H. Iwasaki, S. Tsujimoto, H. Yamada</i>	2'
339	14:48	6'	Donor site morbidity after sural nerve graft harvesting <i>Kaoru Tada (Japan), T. Nakajima, M. Nakada, M. Matsuta, D. Yamauchi, K. Ikeda, H. Tsuchiya</i>	2'

15:00–16:00 PS81 Nerve: Thoracic Outlet Syndrome A2

Chair: Michel Merle (Luxembourg), Franz Lassner (Germany),
Henk Giele (United Kingdom)

Q&A

1963	15:00	6'	Pedicled dectopectoral adipofascial flap and lipofilling techniques for management of recurrent thoracic outlet syndrome <i>Aliabbas Moosa (United Kingdom), H. Giele, R. Dolan</i>	2'
1582	15:08	6'	Thoracic outlet and interscalene triangle variations – anatomic research <i>Luciano Poitevin (Argentina)</i>	2'
1918	15:16	6'	Neurogenic Thoracic Outlet Syndrome: Results from 52 surgically treated patients <i>Gerlinde Weigel (Austria), W. Girsch</i>	2'
1044	15:24	6'	Surgical Management of Thoracic Outlet Syndrome: A Single-Centre Review <i>Karen Slater (United Kingdom), A. Hart, D. Leonard</i>	2'
1393	15:32	8'	The Thoracic Outlet Syndrome – a new surgical approach <i>Franz Lassner (Germany), M. Becker</i>	4'
4060	15:44	12'	Invited lecture: Surgical Indication for Decompression of TOS <i>Pier Luigi Raimondi (Italy)</i>	4'

14:00–16:00 PS22 Microsurgery Distal Finger Reconstruction A3

Chair: Chih-Hung Lin (Taiwan), Panayotis Soucacos (Greece),
Phil Grieve (United Kingdom)

Q&A

1870	14:00	6'	Composite Graft and Temporary Dermo-dermal Fusion to the Palm – A Treatment Option of Fingertip Amputation in Children <i>Darja Sippel (Germany), M. Mann, F. Winkler, W. Hülsemann</i>	2'
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Scientific Programme – Tuesday

Tuesday, 18 June 2019

416	14:08	6'	Experience with the use of semi-occlusive dressing and splint caps for the management of fingertip amputation injuries <i>Hannah Ng (Singapore), A. Adham, C. Rebosura, V. Rajaratnam</i>	2'
903	14:16	6'	Reconstruction of a Nail Unit Using a Free Composite Flap Harvested from the Great Toe with Nerve Repair in 25 patients <i>Yadong Yu (China), X. Zhang, G. Zhang, X. Shao</i>	2'
417	14:24	6'	Outcomes and impact of fingertip amputation injuries in a local tertiary hospital in Singapore <i>Aaron Koh (Singapore), H. Ng, P. Tong, J. Sim, V. Rajaratnam</i>	2'
517	14:32	6'	Nailbed trauma: a review of 76 cases <i>Jefferson Braga Silva (Brazil), A. Gros, J. Zubaran, P. Piccinini</i>	2'
1808	14:40	6'	Advancement of Homodigital Neurovascular Island Flaps <i>Jin Xi Lim (Singapore), A. Chong, S. Sebastin</i>	2'
1098	14:48	6'	Treatment of dorsal defect finger with modified fibular free flap of great toe <i>Linglong Zhao (China), X. Yu, S. Xiang, W. Zheng, X. Shi</i>	2'
174	14:56	6'	Modified reconstruction of the defect of the distal thumb <i>Gaofeng Liang (China), Y. Teng, Y. Guo, J. Dong, Z. Jia, X. Quan</i>	2'
637	15:04	6'	Reconstruction of multiple adjacent large finger pulps with the modified sensate free proximal ulnar artery perforator flap <i>Jiadong Pan (China), X. Wang</i>	2'
121	15:12	6'	Comparison of clinical and functional outcomes of two type of homodigital neurovascular flaps for fingertip reconstruction: a six year follow up. <i>Rafaella Reginato (Chile), R. Aranguiz, C. Ravest, G. Duran</i>	2'
414	15:20	6'	Opinion of surgeons worldwide on management of fingertip injuries <i>Hannah Ng (Singapore), A. Adham, V. Rajaratnam</i>	2'
459	15:28	6'	Thumb and finger reconstruction using vascularized half-big toenail flap with minimum donor site morbidity <i>Koichi Kobayashi (Japan), K. Fukasawa, N. Masuyama, K. Nishimura</i>	2'
336	15:36	6'	Aesthetic reconstruction of thumb or finger partial pulp defect with free lateral great toe flap <i>Zhangjun Pan (China)</i>	2'
189	15:44	6'	Combination foot flaps for digit reconstruction : A prospective analysis of 37 cases <i>Guangliang Zhang (China), J. Ju, R. Hou</i>	2'
589	15:52	6'	Free flap transfers to repair the defects of fingers using the proper digital artery and volar digital veins <i>Chao Chen (China), L. Hao, Z. Wang</i>	2'

Scientific Programme – Tuesday

Tuesday, 18 June 2019

14:00–16:00 PT12 Nerve Transfers A4

Chair: Shrikant Chinchalkar (Canada), Monika Schäfer (Germany)

Q&A

- | | | | | |
|------|-------|-----|--|-----|
| 9410 | 14:00 | 30' | Nerve Transfers Versus Tendon Transfers – A Current Trend in Peripheral Nerve Injuries
<i>Wee Leon Lam (United Kingdom)</i> | 0' |
| 9411 | 14:30 | 20' | EMG-&-EMG Triggered Electrical Stimulation for muscle re-education following Nerve Transfers
<i>Shrikant Chinchalkar (Canada)</i> | 0' |
| 9412 | 14:50 | 20' | Dynamic Assist Splinting for Muscle retraining following Nerve Transfers
<i>Juliana Larocerie (Canada)</i> | 0' |
| 9413 | 15:10 | 20' | Tendon Transfers for Radial Nerve Palsy
<i>Claudia Lunow (Germany)</i> | 0' |
| 9512 | 15:30 | 15' | Therapeutic Management of Nerve Transfer in Spinal Cord Patients
<i>Juliana Larocerie (Canada)</i> | 0' |
| | 15:45 | 0' | Panel Discussion | 15' |

14:00–16:00 PS15 Women in Hand Surgery – Whats going on – in the past and the future? A5

Different presentations from all over the world, following a moderated panel with all speakers.

Chair: Eva-Maria Baur (Germany), Nicola Borisch (Germany), Isabella Maria Mehling (Germany), Sabine Schicke (Germany)

Q&A

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|------|-------|----|--|----|
| 5044 | 14:00 | 4' | Germany
<i>Eva-Maria Baur (Germany)</i> | 0' |
| 5045 | 14:04 | 4' | France
<i>Caroline Leclercq (France)</i> | 0' |
| 5046 | 14:08 | 4' | Argentina
<i>Violeta Levy (Argentina)</i> | 0' |
| 5047 | 14:12 | 4' | USA
<i>Ann Van Heest (United States of America)</i> | 0' |
| 5048 | 14:16 | 4' | China
<i>Jin Zhu (China)</i> | 0' |
| 5049 | 14:20 | 4' | Netherlands
<i>Miryam Obdeijn (Netherlands)</i> | 0' |
| 5050 | 14:24 | 4' | Spain
<i>Mireia Esplugas (Spain)</i> | 0' |
| 5051 | 14:28 | 4' | Iran
<i>Roshanak Moradi (Iran)</i> | 0' |
| 5052 | 14:32 | 4' | Indonesia
<i>Margareta Arianni (Indonesia)</i> | 0' |

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5053	14:36	4'	Hong Kong <i>Josephine Wing-Yuk Ip (Hong Kong)</i>	0'
5054	14:40	4'	Australia <i>Avanthi Mandaleson (Australia)</i>	0'
5055	14:44	4'	Sweden <i>Ann Nachemson (Sweden)</i>	0'
5058	14:48	4'	South Africa <i>Cynthia Satheka (South Africa)</i>	0'
5056	14:52	60'	Panel with all speakers	0'

14:00–14:30 **PS25 Scaphoid Nonunion 2** **A8**

Chair: Scott Wolfe (United States of America), Marco Ritt (Netherlands), Koji Moriya (Japan)

Q&A

500	14:00	6'	Salvage of the proximal scaphoid: A retrospective comparison of Medial Femoral Trochlear Osteocartilaginous graft and Costo-osteochondral graft with a minimum 2 year follow-up <i>John Galbraith (Australia), C. Keating, C. Powell, C. Bain, A. Berger, D. McCombe, E. Ek, S. Tham</i>	2'
1457	14:08	6'	Does Reconstruction of Proximal Pole Scaphoid Nonunions With Hamate Autograft Restore Carpal Kinematics ? <i>Marion Burnier (France), A. Hooke, B. Elhassan, S. Kakar</i>	2'
935	14:16	6'	Midterm outcome of costo-osteochondral graft reconstruction of proximal pole of scaphoid fractures <i>Wolfgang Heiss-Dunlop (New Zealand), A. Durrant, N. Zechmann-Müller</i>	2'
1701	14:24	6'	Medial femoral condyle to reconstruct the scaphoid: Did we improve in 8 years of experience? Comparison of our first and last 20 cases <i>Christian Kindler (Germany), M. Schoeneich, B. Lukas</i>	2'

14:30–15:15 **PS115 Scaphoid Nonunion by Arthroscopy** **A8**

Chair: Jeff Ecker (Australia), Steven Moran (United States of America), Jan-Ragnar Haugstvedt (Norway)

Q&A

1820	14:30	6'	The avascular proximal pole nonunion treatment with NVBG from radius, open or arthroscopically: a role for core decompression and biophysics. <i>Pier Paolo Borelli (Italy), A. Fagetti</i>	2'
1373	14:38	6'	3D printing assisted accurate arthroscopic treatment of scaphoid fracture and nonunion <i>Wendong Xu (China), H. Yin</i>	2'
770	14:46	6'	Scaphoid non-unions – should we treat it arthroscopically? <i>Fernando Cruz (Portugal), S. Silverio, L. Fernandes</i>	2'
1224	14:54	6'	Percutaneous neutralisation screw fixation with scaphoid arthroscopic bone grafting <i>Nicholas Smith (Australia)</i>	2'

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1643 15:02 6' Arthoscopic reconstruction of chronic unstable scaphoid nonunion 2'
Pedro Jose Delgado Serrano (Spain), B. Garcia-Medrano, F. Polo Simon, M. Aita, R. Kaempf

1455 15:10 6' Arthroscopically assisted bone grafting reduces time to healing of scaphoid non-unions compared to percutaneous screw fixation alone 2'
Robert Gvozdenovic (Denmark), S. Joerring, R. Wejnold Joergensen, C. Hjort Jensen

15:15–16:00 PS131 Panel: Scaphoid Nonunion A8

Chair: *Jeff Ecker (Australia), Steven Moran (United States of America), Jan-Ragnar Haugstvedt (Norway)*

Q&A

4095 15:15 6' Arthrosocpic bone grafting for scaphoid nonunion: tips and tricks 0'
Pak-cheong Ho (Hong Kong)

4096 15:21 6' Is bone grafting necessary in scaphoid fracture delayed and nonunion? Role of arthroscopy 0'
Jeff Ecker (Australia)

4097 15:27 6' Vascularized or non Vascularized grafts 0'
Steven Moran (United States of America)

4098 15:33 6' Free bone grafts as standard procedure? 0'
Steven Moran (United States of America)

15:39 0' Discussion 16'
Ulla Jörn Good (Switzerland)

14:00–16:00 PT33 Brain M1-3

Chair: *Greg Pitts (United States of America), Nicole Pluess-Gruenert (Switzerland)*

Q&A

9480 14:00 30' The basic science of neuroplasticity 0'
Enrique Smith-Forbes (United States of America)

9481 14:30 20' Influence of immobilisation on neuroplasticity and brain. Consequences for Hand Therapy 0'
Joerg Gruenert (Switzerland)

9482 14:50 30' The application of Neuroplasticity with the Treatment of upper extremity injuries 0'
Greg Pitts (United States of America)

9510 15:20 20' Neuroplasticity induced by training with modified visual feedback 0'
Christian Dohle (Germany)

15:40 0' Q&A 20'

Scientific Programme – Tuesday

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14:00–15:30 **TWS11 Improving Thumb Stability: Fabrication of an Aquatube Splint (Hands On)** M4+5

Sarah Ewald (Switzerland)

15:30–16:00 **TWS12a ISOFORCE Outrigger (A new outrigger system for static progressive orthotic interventions) – Theoretical Part** M4+5

Ulla Jörn Good (Switzerland)

14:00–15:00 **PT34 Therapy for Phalangeal Fractures** M6+7

Chair: Linda Klein (United States of America), Ina Gundelwein (Germany)

Q&A

9484 14:00 13' Early active motion following proximal phalangeal fractures 0'
Lynne Feehan (Canada)

9485 14:13 13' Optimizing outcomes following proximal phalangeal fracture fixation 0'
Lauren Miller (Australia)

9483 14:26 13' PIP intra articular fractures, including non invasive traction technique 0'
Sarah Bradley (United Kingdom)

9166 14:39 9' Adhesion barrier gel in plate fixation of phalanges – A pilot study 0'
Jenny Rosengren (Sweden), J. von Kieseritzky, M. Arner

14:48 0' Q&A 8'

16:00–16:30 **Coffee Break**

Visit of Industry and ePoster Exhibition

16:30–18:30 **IC13 Instructional Course III** A6-7

Chair: Ravi Gupta (India), Diego Fernandez (Switzerland), Marc Garcia-Elias (Spain)

Q&A

4025 16:30 8' Extraarticular malunion 0'
Karl-Josef Prommersberger (Germany)

4026 16:38 8' Intraarticular malunion 0'
Francisco del Pinal (Spain)

4027 16:46 8' Newer technologies in malunions 0'
Ladislav Nagy (Switzerland)

4028 16:54 8' Distal Radius in children and growth disturbances 0'
Joshua Abzug (United States of America)

17:02 0' Discussion 10'

4030 17:12 8' Chronic S-L injury open 0'
Marc Garcia-Elias (Spain)

4031 17:20 8' Arthroscopic S-L repair 0'
Max Haerle (Germany), Christophe Mathoulin (France)

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4032	17:28	8'	LT management <i>Lee Osterman (United States of America)</i>	0'
4033	17:36	8'	Arthroscopic management of Perilunate dislocation and Fx dislocation <i>Min Jong Park (South Korea [ROK])</i>	0'
	17:44	0'	Discussion	10'
4035	17:54	8'	Radiocarpal pain and stiffness <i>Christoph Pezzei (Austria)</i>	0'
4036	18:02	8'	Ulnar pain and pronosupination losses <i>Riccardo Luchetti (Italy), Andrea Atzei (Italy)</i>	0'
4037	18:10	8'	Chronic DRUJ instability <i>Pak-cheong Ho (Hong Kong)</i>	0'
	18:18	0'	Discussion	12'

16:30–17:30 PS104 Dupuytren 2 A1

Chair: *Esther Vögelin (Switzerland), Franco Bassetto (Italy), Joseph Imbriglia (United States of America)*

Q&A

1825	16:30	6'	Open palm vs closed technique for treatment of multiple digit involvement with Dupuytren's contracture: A prospective randomized study. <i>Nash Naam (United States of America), A. Massoud</i>	2'
1891	16:38	6'	Severe Dupuytren's Contracture treated by the McCash Technique (open palm) and Full Thickness Skin Grafts to the Involved Fingers: Results and Complications. <i>J. Imbriglia, Glenn Buterbaugh (United States of America), W. Hagberg</i>	2'
914	16:46	6'	External fixator with distractor for treatment of the retraction in flexion of fingers <i>Kleber Oliveira Barboza (Brazil)</i>	2'
436	16:54	6'	A new non-invasive device in the treatment of severe finger contractures <i>Andreas Felix Klenner (Germany), K. Klenner</i>	2'
434	17:02	6'	Dupuytren's contracture: Long term results after treatment with excision of the contracted palmar fascia <i>Ioannis Antoniou (Greece), E. Athanaselis, N. Stefanou, I. Maniotis, Z. Dailiana, K. Malizos, S. Varitimidis</i>	2'
342	17:10	6'	Randomized controlled trial of limited fasciectomy with injection of lipoaspirate adipose graft in the treatment of Dupuytren's disease <i>M. Tommasini Carrara de Sambuy (Brazil), H. Nakamoto, M. Sandalo Trevelin Pimentel, R. Bolliger Neto, M. Pinto Rodrigues, M. Rosa de Rezende, T. Hsiang Wei, M. Arranz Abreu, R. Mattar Jr.</i>	2'
1127	17:18	6'	Fatgrafting in dupuytren disease <i>Cesare Tiengo (Italy), D. Faccio, R. Sonda, E. Dalla Venezia, A. Monticelli, F. Bassetto</i>	2'

Scientific Programme – Tuesday

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17:30–18:30 PS21 Panel: Innovation – Hand Prosthetics A1

Chair: Kai Megerle (Germany), Oskar Aszmann (Austria),
Ghazi Rayan (United States of America)

Q&A

- 4118 17:30 10' Invited lecture
Oskar Aszmann (Austria) 2'
- 193 17:42 6' study of muscle redistribution technique in signal recognition of intelligent bionic hand 2'
Yong Yang (China), Q. Wang, L. Sun, S. Chen, W. Tian
- 493 17:50 6' Allogenic upper extremity transplantations – opportunities and limitations 2'
Nicco Krezdorn (Germany), P. Vogt
- 1930 17:58 6' Osseointegrated thumb prosthesis as an alternative for microsurgical thumb reconstruction 2'
Johannes Mayer (Austria), S. Salminger, O. Aszmann, A. Sturma
- 1670 18:06 6' Myo electricity and 3D printing: a resource for revolutionary hand prosthetics 2'
Franco Bassetto (Italy), C. Tiengo, M. Atzori, M. Cognolato, D. Faccio, N. Petrone, C. Marchesini, S. Marangon, H. Müller
- 1689 18:14 3' Effects of hand amputation surgery procedures on sEMG activity to control robotic hand prostheses 1'
Cesare Tiengo (Italy), F. Bassetto, M. Atzori, A. Gijssberts, B. Caputo, M. Cognolato, D. Faccio, P. Brugger, H. Müller, G. Saetta
- 1688 18:18 3' Effects of hand amputation surgery procedures on phantom limb sensation 1'
Franco Bassetto (Italy), C. Tiengo, P. Brugger, M. Atzori, M. Cognolato, D. Faccio, M. Coppola, B. Caputo, H. Müller, G. Saetta
- 1908 18:22 6' Innovations in man-machine interface for control and feedback of bionic prostheses 2'
Martin Aman (Austria), M. Sporer, C. Festin, C. Hofer, M. Russold, O. Aszmann

16:30–17:30 PS13 Congenital – Radial Club Hand: Longterm Results after different Treatment Concepts A2

Chair: Charles Goldfarb (United States of America), Michael Tonkin (Australia)

Q&A

- 4074 16:30 3' Introduction 0'
Wiebke Hülsemann (Germany)
- 1863 16:33 5' Radial Dysplasia: Intrinsic soft tissue changes and their effect on disease progression 0'
George Murphy (United Kingdom), B. Sivakumar, G. Smith, M. Logan
- 4009 16:38 6' Results after radialization versus distraction + radialization 0'
Max Mann (Germany)
- 5033 16:44 7' Results after distraction prior to radialization or centralization 0'
Paul Smith (United Kingdom)

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4014	16:51	9'	Outcome after isolated soft tissue procedure <i>Scott Oishi (United States of America)</i>	0'
4024	17:00	10'	Results after joint reconstruction by free MTP-transfer <i>Pasi Paavilainen (Finland)</i>	0'
5034	17:10	5'	Free fibula grafts for radius reconstruction <i>Henk Giele (United Kingdom)</i>	0'
4229	17:15	0'	Discussion <i>Charles Goldfarb (United States of America)</i>	10'
4038	17:25	5'	Conclusion <i>Charles Goldfarb (United States of America)</i>	0'

17:30–18:30 **PS94 Congenital – Scoring and Syndactyly** A2

Chair: *Daniel Weber (Switzerland), Michael Tonkin (Australia),
Goo Hyun Baek (South Korea)*

Q&A

451	17:30	6'	Social Deprivation and Congenital Hand Anomalies – An assessment using PROMIS <i>Charles Goldfarb (United States of America), L. Wall, D. Bae, S. Steinmann, J. Samora</i>	2'
452	17:38	6'	Convergent Validity of PODCI and PROMIS domains in Congenital Upper Limb Anomalies <i>Charles Goldfarb (United States of America), L. Wall, D. Bae, C. Vuillermin, P. Miller</i>	2'
1691	17:46	6'	Cosmetic appearance of congenital upper extremity anomalies <i>Noora Nietosvaara (Finland), A. Sommarhem, J. Puhakka, R. Tan, J. Schalamon, Y. Nietosvaara</i>	2'
897	17:54	6'	ZASH: The Zurich appearance score for hands. A validated instrument to assess appearance of hands with and without malformations. Preliminary results <i>Daniel Weber (Switzerland), R. Koss, H. Werner</i>	2'
624	18:02	6'	New simple technique for syndactyly separation <i>Yrjana Nietosvaara (Finland), P. Grahm, A. Sommarhem</i>	2'
425	18:10	6'	Outcomes of Syndactyly Reconstruction using Hyaluronic Acid Matrix <i>Charles Goldfarb (United States of America), K. Velickiv, L. Wall</i>	2'
1012	18:18	3'	Treatment of artificial dermal template to release congenital syndactyly without skin graft <i>Jianghai Chen (China), F. Ai, K. Wang, Y. Zhang</i>	1'
1020	18:22	3'	Application of vascular grafting in syndactyly release of Poland syndrome <i>Xiaofang Shen (China)</i>	1'

16:30–17:45 **PS57 Microsurgery Replantation** A3

Chair: *Sait Ada (Turkey), Chih-Hung Lin (Taiwan), R. S. Shanmuganathan (India)*

Q&A

- 1672 **16:30** 6' Long Term Results of First Major Upper Extemity Replantations In Turkey: A Replantation Under Direct Vision of 42 Years versus Another With Microsurgery of 37 Years 2'
Turker Özkan (Turkey), A. Kara
- 638 **16:38** 6' Frozen thumb replantation: cases report 2'
Liwen Hao (China), C. Chen, Z. Wang
- 1178 **16:46** 6' Significance of tissue savage and sensory recovery in avulsed finger replantation 2'
Bin Sun (China), W. Sun, B. Wang
- 1201 **16:54** 6' Tamai zone I and II replantation functional and cosmetical results versus conservative treatment: retrospective analysis 2'
Pierfrancesco Pugliese (Italy), P. Pangrazi, A. Campodonico, A. Marchesini, F. De Francesco, L. Senesi, M. Riccio
- 1298 **17:02** 6' Frozen Amputated fingers – Replantation and Other treatments 2'
Zdenek Dvorak (Czech Republic), T. Kubek, P. Novak, I. Stupka, J. Vesely
- 1577 **17:10** 6' Comparison of surviving rates of digital replantation after more than 10 hours of delay versus immediate replantation 2'
Chao Chen (China), L. Hao, Z. Wang
- 817 **17:18** 6' Replantations in Norway 2010-2017' 2'
Johanne Korslund (Norway), O. Reigstad, R. Thorkildsen, M. Rokkum
- 443 **17:26** 6' Three-year (2014-2016) activity report of the Replantation Service for hand amputations in a Mid-European country 2'
Andrzej Zyluk (Poland), J. Jablecki, A. Chrapusta, L. Romanowski, T. Mazurek
- 1303 **17:34** 6' Early Amputation vs Limb Salvage: Characterization of Procedural Management for Limb Threatening Upper Extremity Injuries in Hospital Days 1 to 30 2'
Ritsaart Westenberg (United States of America), C. Langhammer, F. Nawijn, K. Eberlin, N. Chen

17:45–18:30 **PS146 Replantation Surgery: are there any limits?** A3

Round table – which are my limits / timing, size, tissue banking, multiple level, degloving, crush

Chair: *Pierluigi Tos (Italy), Chih-Hung Lin (Taiwan), Riccardo Giunta (Germany)*

Q&A

- 4211 **17:45** 8' Which are my limits? 0'
Bruno Battiston (Italy)
- 4212 **17:53** 8' Which are my limits? 0'
S. Raja Sabapathy (India)

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4213	18:01	8'	Which are my limits? <i>Chih-Hung Lin (Taiwan)</i>	0'
4215	18:09	8'	Which are my limits? <i>Pedro Cavadas (Spain)</i>	0'
4214	18:17	8'	Which are my limits? <i>Zengtao Wang (China)</i>	0'
	18:17	0'	Panel Discussion	8'

16:30–18:30 PT29 Burns A4

Chair: Cecilia Li (Hong Kong), Hanne Wendt (Germany) Q&A

9486	16:30	10'	Evaluation of an ICF based rehabilitation concept of thermal injury: Focus on lesion of the hand <i>Mareike Strupat (Germany)</i>	0'
9487	16:40	15'	Virtual reality in burn care <i>Joachim Suß (Germany)</i>	0'
9488	16:55	15'	Elastometry in the Evaluation of the Burned Hand – An Analysis of Interrater Reliability <i>Felix Klimitz (Germany)</i>	0'
9489	17:10	15'	Management of paediatric burned hands <i>Cecilia Li (Hong Kong)</i>	0'
9490	17:25	15'	Splinting the burned hand: an update <i>Kent, Jui-Kun Chang (Taiwan)</i>	0'
9326	17:40	15'	A systematic review for effectiveness of hand therapy in adults of burns <i>Akihito Yoshida (Japan), M. Yamamoto, K. Iwatsuki, S. Kurimoto, H. Hirata</i>	0'
	17:55	0'	Panel Discussion	15'

16:30–17:30 PS17 Humanitarian Aid A5

Chair: Stefan Krieger (Germany), James Chang (United States of America), Ankur Pandya (United Kingdom) Q&A

4225	16:30	6'	The role of surgery in humanitarian aid <i>Stefan Krieger (Germany)</i>	2'
4226	16:38	6'	Anesthetic challenges in humanitarian surgery <i>Hans Gerber (Germany)</i>	2'
220	16:46	6'	Hand surgery under limited Conditions – Sense or Nonsense ? <i>André Borsche (Germany)</i>	2'
110	16:54	6'	Can we make a difference? The impact of handsurgery in chronic humanitarian conflicts and violent crisis <i>Stefan Krieger (Germany)</i>	2'

Scientific Programme – Tuesday

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- 750 17:02 6' A sustainable model for teaching the management of upper limb conditions in Low and Middle Income Countries – experience from the British Foundation of International Reconstructive Surgery and Training (BFIRST) 2'
Barbara Jemec (United Kingdom), W. Lam, M. Fell, B. Sivakumar, A. Yam, A. Flemming, S. Kay, V. Rajaratnam
- 795 17:10 6' Hand surgery in a field hospital in COX's bazar, Bangladesh 2'
Shalimar Abdullah (Malaysia), L. Kesu Belani, A. Adham Ahmad, M. Osman
- 137 17:18 6' Reconstruction of Low-Hand Syndrome with Tendon Transfer in Patients Injured in Syrian Civil War 2'
Murat Ucak (Turkey)
- 1588 17:26 6' Hand burns in Austere environment 2'
Yousef Alloun (Syrian Arab Republic)
- 4227 17:34 5' Summary first part and introduction second part 0'
Stefan Krieger (Germany)

17:30–18:30 PS120 Panel: Challenges and Pitfalls in organizing Humanitarian Aid

A5

Chair: Stefan Krieger (Germany), James Chang (United States of America), Ankur Pandya (United Kingdom)

Q&A

- 4004 17:30 8' Doctors Without Borders / Ärzte ohne Grenzen 0'
Haydar Alwash (Germany)
- 4019 17:38 8' Missions England / UK 0'
Ankur Pandya (United Kingdom)
- 4034 17:46 8' Interplast (Europe) 0'
André Borsche (Germany)
- 4043 17:54 8' ReSurge USA 0'
James Chang (United States of America)
- 18:02 0' Discussion 25'

16:30–17:45 PS26 Scaphoid Fracture

A8

Chair: Frederik Verstreken (Belgium), Rene Jorquera (Chile), Frederic Schuind (Belgium)

Q&A

- 1438 16:30 6' Is MRI better than CT in the diagnosis of occult wrist fractures? 2'
Sue Fullilove (United Kingdom), A. Sahu, T. Luff, T. Ninan, C. Gozzard, P. Suresh
- 1079 16:38 6' Scaphoid Skyline View (SSV): A Useful Method to Detect Intra-articular Screws at the Proximal Pole of the Scaphoid During Retrograde Fixation 2'
Juan Manuel Breyer (Chile), A. Perez, P. Vergara, P. Ruiz
- 505 16:46 6' Three-Dimensional Computed Tomography Analysis of Acute Scaphoid Fracture Patterns 2'
Anne Eva Bulstra (Australia), A. Turow, M. Oldhoff, B. Hayat, J. Doornberg, G. Bain

Scientific Programme – Tuesday

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319	16:54	6'	A nationwide registry study on the epidemiology of scaphoid fractures in Sweden. <i>Elin Sward (Sweden), T. Schriever, M. Andersson Franko, M. Wilcke</i>	2'
995	17:02	6'	Displaced scaphoid type B2 waist fractures stabilized by one or two headless compression screws <i>Thomas Beer (Austria), S. Quadlbauer, C. Pezzei, J. Jurkowitsch, T. Keuchel, T. Hausner, M. Leixnering</i>	2'
232	17:10	6'	Percutaneous stabilization of scaphoid fractures with headless compression screw fixation <i>Sabrina Holzer (Austria), G. Halát, B. Maier, G. Thalhammer, I. Krusche-Mandl</i>	2'
345	17:18	6'	A new way to screw the scaphoid? <i>Matthew DeWolf (United States of America), L. Warhold, A. Hartov</i>	2'
1361	17:26	6'	Closed screw fixation versus open reduction and bone grafting in delayed union scaphoid fractures <i>Saskia Kamphuis (Switzerland), J. Sproedt</i>	2'
1111	17:34	6'	A new minimally invasive technique of the bone marrow concentrate injections improves hand function and reduces pain in the selected scaphoid nonunions <i>Kaja Gizewska-Kacprzak (Poland), I. Walaszek, A. Bohatyrewicz</i>	2'

17:45–18:30 PS116 Panel: Scaphoid Fractures: can we avoid Complications? A8

Chair: *Daniel B. Herren (Switzerland), Bo Liu (China), Radek Kebrle (Czech Republic)*

				Q&A
4092	17:45	10'	Complications in Osteosynthesis of scaphoid fractures <i>Radek Kebrle (Czech Republic)</i>	0'
1060	17:55	6'	Computer navigated reduction of scaphoid non-unions and displaced scaphoid fractures- a cadaveric study <i>Michael Chu-kay Mak (Hong Kong), P. Ho, E. Chui</i>	2'
259	18:03	6'	Robot-Assisted of Volar Percutaneous Scaphoid Screw Placement: initial clinical experience <i>Yang Guo (China)</i>	2'
4093	18:11	10'	Are we allowed to screw stable waist fractures? <i>Frederik Verstreken (Belgium)</i>	0'
	18:21	0'	Discussion	9'

16:30–18:00 PT14 Chronic Pain Management in the Upper Limb M1-3

Chair: *Dershnee Devan (South Africa), Christine Popp (Germany)*

				Q&A
9418	16:30	25'	Pain Neuroscience for chronic pain in the upper extremity <i>Aviva Wolff (United States of America)</i>	5'
9419	17:00	35'	An update on the Management of CRPS <i>Candy McCabe (United Kingdom)</i>	5'

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9142	17:40	10'	The Relationship between Pain, Pain Catastrophizing Scale and DASH scores in Hand Therapy <i>Shinya Nishimura (Japan), Y. Ito, R. Uesato, K. Miura, E. Tsuda</i>	5'
16:30–18:30	TWS12b		ISOFORCE Outrigger (A new outrigger system for static progressive orthotic interventions) – Hands-On	M4+5
			<i>Ulla Jörn Good (Switzerland)</i>	
16:30–18:30	PT13		PIP Joint Stiffness: An International Perspective for Optimal Outcomes	M6+7
			<i>Chair: Karen S Schultz (United States of America), Carolyn Schönherr (Germany)</i>	
				Q&A
9414	16:30	20'	PIP Anatomy and kinesiology <i>Shrikant Chinchalkar (Canada)</i>	0'
9415	16:50	35'	Innovative orthoses for restoring ROM <i>Vicenç Punsola Izard (Spain)</i>	0'
9416	17:25	20'	Creative exercise and activity for the PIP <i>Ricardo Banda (Chile)</i>	0'
9417	17:45	35'	Manual therapy approaches for soft tissue and joint alignment <i>Karen S Schultz (United States of America)</i>	0'
	18:20	0'	Q&A	10'

Scientific Programme – Wednesday, 19 June 2019

	A6-7	A1	A2	A3	A4	A5	
7:00	Radius Fracture	Diagnostic value	Fractures and Dislocations Hand	HaMiPla Best Papers	Nerve	Wide awake	
7:30							
8:00	Radius Fracture	Diagnostic value	Fractures and Dislocations Hand	SLAC & SNAC	Nerve	Wide awake	
8:30							
9:00							
9:30							
10:00	Coffee Break – Visit of Industry and ePoster Exhibition						
10:30	Radius Fracture	Innovation	Fractures and Dislocations Hand	Nerve	Surgery and Therapy for Congenital Differences	Rheumatoid	
11:00							
11:30							
12:00							
12:30	Lunch Break and Industry Workshops – Visit of Industry and ePoster Exhibition						
13:00							
13:30							
14:00	Arthroscopy Radius Fracture	Innovation	Fractures and Dislocations Hand	Nerve	DAHTh General Assembly (MJV)	Infection	
14:30							
15:00							
15:30							
16:00	Presidential Guest Lecture						
16:30							
17:00			DGH General Assembly	FESSH Delegates Assembly	IFSSH Delegates Council Meeting		
17:30							
18:00							
18:30							
19:00							

Scientific Programme – Wednesday, 19 June 2019

	A8	M1-3	M4-5	M6-7	M8				
					FESSH Sessions	7:00			
						7:30			
	Free Paper Session I					8:00			
						8:30			
						9:00			
						9:30			
Coffee Break – Visit of Industry and ePoster Exhibition						10:00			
	SLAC & SNAC		Neoprensplints for joint Contracture	Traumatic upper Extremity Amputations	FESSH Sessions	10:30			
						11:00			
			Flexor Tendon Repair	Minimally in-vasive Treatment		11:30			
						12:00			
Lunch Break and Industry Workshops – Visit of Industry and ePoster Exhibition						12:30			
									13:00
									13:30
	SLAC & SNAC and Arthroscopy	IFSHT Council / Delegates Meeting with following Reception				14:00			
						14:30			
						15:00			
						15:30			
				Splinting the Athletes Hand	EFSHT Council Meeting		16:00		
								16:30	
								17:00	
								17:30	
					18:00				

Please find the detailed Congress Programme in the App



or as PDF-file on the website



07:00–08:00 PS27 Radius Fracture Short Papers

A6-7

Chair: *Maria Wilcke (Sweden), Luc van Overstraeten (Belgium),
Mohssen Hakimi (Germany)*

Q&A

- 872 07:00 3' Measurement of the distance between a line extending along the volar aspect of the radial shaft and the lunate rotation center on lateral view X-ray of the wrist 1'
Souichi Ohta (Japan), R. Ikeguchi, H. Yurie, H. Takeuchi, S. Mitsuzawa, S. Matsuda
- 446 07:04 3' Percutaneous K-wires vs palmar-locking-plate fixation for distal radial fractures: a comparison of the outcomes of two methods used according to the accepted guidelines. 1'
Andrzej Zyluk (Poland), P. Janowski, Z. Szlosser
- 170 07:08 3' The vitamin D receptor expression in skeletal muscle of women with distal radius fracture 1'
Kahyun Kim (South Korea [ROK]), H. Gong, G. Baek
- 1509 07:12 3' Outcome assessment of closed distal radius fracture and ulnar styloid fracture treatment with volar plate and screw fixation 1'
Luis Mata Ribeiro (Portugal), M. Botton, M. da Costa
- 1011 07:16 3' Fragment-Specific Fixation versus Volar Locking Plates in non-reducible or redisplaced distal radius fractures. A long-term follow-up of a prospective and randomized study in 50 patients 1'
Marcus Landgren (Sweden), K. Borgstrand, M. Larsson, M. Geijer, A. Abramo, M. Tägil
- 797 07:20 3' Do post-operative radiographs change the management following internal fixation of distal radius fractures? 1'
Stefanie Wieschollek (Australia), B. Gilpin, J. McKenzie, P. Hak, M. Robinson, G. Couzens, M. Ross
- 1576 07:24 3' Distal Radius Nonunion: Subjective Hand Functional Impairment and Mid term Results after Radial Consolidation 1'
Pablo De Carli (Argentina), N. Atala, L. Tripodi, J. Boretto, G. Gallucci, A. Donndorff, E. Zaidenberg
- 1592 07:28 3' Unidirectional porous beta-tricalcium phosphate: a new bone filling substitute for treatment of distal radius fracture in the elderly population 1'
Keiichi Muramatsu (Japan), R. Iwanaga
- 1004 07:32 3' Volar locking plate fixation for distal radius fractures assisted by intraoperative computed tomographic navigation 1'
Akira Kawabata (Japan), Y. Morimoto, Y. Sogabe, K. Takamatsu
- 645 07:36 3' Mechanics of a smith's fracture. -Caused by falling on the palm of the hand with wrist dorsal flexion- 1'
Yusuke Matsuura (Japan), T. Rokkaku, K. Kuniyoshi

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- 1824 07:40 3' How can we avoid complications following ORIF of Distal Radius Fractures with a palmar locking plate? 1'
Lukas Horling (Austria), R. Arora, K. Simon, T. Kastenberger, G. Schmidle, M. Gabl
- 1513 07:44 3' Surgically treated Closed Distal Radius Fractures in adult working patients – Outcome analysis in occupational vs nonoccupational injuries 1'
Luis Mata Ribeiro (Portugal), M. Botton, M. da Costa
- 892 07:48 3' Early Outcome of AO type C2 & C3 Distal Radius Fractures Treated with Single Broad Dorsal Plate Fixation. A Case Series. 1'
Siew Khei Liew (Malaysia), I. Abdul Samad, F. Mohamed Saaid, M. Arumugam
- 1777 07:52 3' Should I stay or should I go – how safe is the routine removal of volar locking plates after healed fractures of the distal radius? 1'
Senat Krasnici (Germany), K. Krüger, W. Ertel, I. Fassola

08:00–10:00 PS28 Radius Fracture 1

A6-7

Chair: Wolfgang Hintringer (Austria), Michael O'Sullivan (Ireland), Rodrigo Rivera (Chile)

Q&A

- 927 08:00 6' Flexor Pollicis Longus Tendon Rupture after Volar Plate Fixation of Distal Radius Fracture. 2'
Daiki Yamamoto (Japan), K. Tada
- 1579 08:08 6' Complications in patients with fractures of the distal radius 2'
Merida Victoria Choquin Sales (Guatemala), E. Pinilla, C. Moreno-Serrano, J. Bermudez, R. De Bedout
- 985 08:16 6' Complications after distal radius fractures stabilized by volar locking plate in 392 patients 2'
Stefan Quadlbauer (Austria), C. Pezzei, J. Jurkowitsch, S. Schättin, R. Rosenauer, T. Beer, T. Hausner, M. Leixnering, A. Pichler
- 1798 08:24 6' Anteromedial release for post-traumatic flexion pronation contracture of the wrist. 2'
Inma Puig de la Bellacasa (Spain), M. Garcia-Elias, D. Ananos Flores, R. Jamieson
- 1651 08:32 6' Post-traumatic deformities around wrist: two-stage treatment 2'
Alexander Zolotov (Russian Federation)
- 283 08:40 6' The soong criteria and the risk of flexor tendon rupture post volar plate application. What is the associated risk of the loss of the normal volar tilt 2'
Jesse B Jupiter (United States of America)
- 577 08:48 6' A comparison of hand function in Colles and Scaphoid casts using a technologically updated Jebsen Hand Function test 2'
Anuhya Vusirikala (United Kingdom), D. Williams, H. Koo, J. Godwin, L. Costalago, G. Erdos, J. Esposito, A. Davy

- 982 08:56 6' Active Wrist Mobilization after operatively treated distal radius fractures by volar locking plate – a prospective randomized trial 2'
Stefan Quadlbauer (Austria), C. Pezzej, J. Jurkowsch, T. Keuchel, B. Kolmayr, E. Spielvogel, T. Beer, T. Hausner, M. Leixnering
- 1272 09:04 6' Worse outcome (DASH) at 12 months in 128 patients with combined radius-ulna metaphyseal fracture than radius fracture alone. A register study of 3666 patients. Need for Evidence Based Treatment Guidelines? 2'
Linnea Arvidsson (Sweden), E. Österhed, M. Landgren, A. Abramo, M. Tägil
- 1637 09:12 6' Association between radiological results and functional long-term (6.8 years) outcome in conservatively treated AO Type-C distal radius fractures 2'
Leena Raudasoja (Finland), S. Aspinen, H. Vastamäki
- 1858 09:20 6' A systematic review of the quality of distal radius systematic reviews: Methodology and reporting assessment 2'
Vinicius Ynoe Moraes (Brazil), J. Raduan-Neto, M. Fernandes, A. Okamura, J. Belloti
- 1751 09:28 6' Pain as the main predictor of the one-year outcome in distal radius fractures 2'
Magnus Tägil (Sweden), S. Zakrisson Andersson, A. Abramo, M. Landgren
- 1204 09:36 6' Outcomes of Supplemental Bridge Plate Fixation of Highly Comminuted Distal Radius Fractures Treated by Open Reduction Internal Fixation 2'
Libby Anderson (New Zealand), K. Smith
- 905 09:44 6' Do national randomised controlled trials change international clinical practice? 2'
Rosie Mc Colgan (Ireland), D. Dalton, A. Cassar-Gheiti, M. O' Sullivan

07:00–08:00 PS31 Diagnostic Value – Short Papers

A1

Chair: Bernd von Maydell (Germany), Fernando Cruz (Portugal),
Christian Perrotto (Argentina)

Q&A

- 298 07:00 3' What are the ultrasound features of the trigger finger that may guide management? 1'
Xue Ling Chuang (Singapore), Z. Lim, D. McGrouther
- 998 07:04 3' Establishing National Diagnostic Reference Levels for Mini C-arm Use, St John's Hospital Livingston 1'
Philippa Rust (United Kingdom), M. McCann
- 1207 07:08 3' The reliability of tomosynthesis for Heberden's node 1'
Masashi Matsuta (Japan), K. Tada, T. Nakajima, M. Nakada, H. Tsuchiya
- 1226 07:12 3' The role of nerve conduction studies in diagnosing and staging of the carpal tunnel syndrome 1'
Amina Shammatt (Romania), V. Gyebnar, M. Mastacaneanu, I. Popa, V. Romanescu
- 1087 07:16 3' Do we need electrophysiological measurements for the diagnostics of carpal tunnel syndrome 1'
Balazs Lenkei (Hungary), A. Lakatos, Z. Szabo

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- 635 07:20 3' Severity diagnosis of carpal tunnel syndrome using sagittal view of MRI 1'
Mao Yamada (Japan), M. Amako, R. Fujimaki, M. Isaji, S. Kondo, H. Arino, K. Chiba
- 1501 07:24 3' Ultrasound in carpal tunnel syndrome – the inlet and outlet ratio 1'
Stefanie Hirsiger (Switzerland), E. Vögelin
- 907 07:28 3' Sonoelastography in carpal tunnel syndrome diagnosis: A Systematic Review of diagnostic value 1'
Che-Hsiung Lee (Taiwan), Y. Lin
- 1477 07:32 3' Validity of the „Scratch Collapse Test“ for the Diagnosis of the Carpal Tunnel Syndrome. 1'
Belen Garcia-Medrano (Spain), C. Simon Perez, M. Ocampos Hernandez, M. Corella Montoya, M. Martin-Ferrero, P. Delgado Serrano, F. Corella Montoya
- 236 07:36 3' Collateral ligament injuries of the metacarpophalangeal joint in long fingers. Results of a series of 20 patients. Presentation of a new clinical test. 1'
Gero Meyer zu Reckendorf (France), M. Kientzi, J. Rouzard
- 1528 07:40 3' Is skyline view accurate for detecting protruded screw in volar plate fixation of distal radius fracture? : Compared with intraoperative mobile-mini CT 1'
Hyunkyuu Yu (South Korea [ROK]), K. Lim, B. Kwon, H. Kang
- 818 07:44 3' Echogenicity of palmar Dupuytren nodules is not a predictor of disease progression in terms of increase in nodule size 1'
Sanne Molenkamp (Netherlands), D. Broekstra, P. Werker
- 820 07:48 3' The reliability of sonographic measurement of early palmar Dupuytren nodules 1'
Sanne Molenkamp (Netherlands), R. van Straalen, P. Werker, D. Broekstra
- 1756 07:52 3' The musicians' hand – A survey focusing on the challenges in diagnostics and therapy 1'
Sabrina Holzer (Austria), B. Riebl, M. Bertsch, G. Thalhammer, I. Krusche-Mandl

08:00–09:15 PS32 Diagnostic Value

A1

Chair: *Luria Shai (Israel), Peter Mailänder (Germany), Eduardo Zancolli III (Argentina)*

Q&A

- 449 08:00 6' Sonographic diagnosis of closed pediatric finger injuries 2'
Marcell Varga (Hungary), L. Tóth, S. Pinter
- 1841 08:08 6' Correlation between ultrasound image and surgery in De Quervain's tenosynovitis 2'
Hugo Campo (Colombia), A. Sandoval Daza, A. Lombana
- 1034 08:16 6' An ultrasonic diagnostic method by multiple plane scanning and side-to-side comparing for unilateral peripheral nerve entrapment disease. 2'
Xueyuan Li (China), M. Yu

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- 72 08:24 6' The 2nd Metacarpal Cortical Index as a Simple Screening Tool for Osteopenia 2'
Bhavika Patel (United Kingdom), A. Aqil, R. Jeffers, D. Dickson
- 490 08:32 6' The utility of the mangled extremity severity score (MESS) for decision-making in treating mangled upper extremities? A meta-analysis 2'
Hidemasa Yoneda (Japan), H. Hirata
- 696 08:40 6' Active von Frey filament test: new technique for evaluation of hand tactile sensation measuring in continuous variable units 2'
Li Seo (South Korea [ROK]), H. Lee, J. Lee, J. Kim, Y. Choi, I. Jeon, D. Oh, S. Lee
- 1385 08:48 6' Patient radiation exposure in fluoroscopically guided injections 2'
Michelle Spiteri (United Kingdom), S. McGurk
- 184 08:56 6' Traumatic Brachial Plexus palsy: How Accurate is the Pre-operative Diagnosis? 2'
Yan Chen (China), P. Murray, M. Wood

09:15–10:00 PS117 Panel: Imaging in Hand Surgery A1

Chair: Sebastian Kluge (Switzerland), Falko von Stillfried (Germany), Janos Rupnik (Hungary)

Q&A

- 1692 09:15 8' The Cone Beam Computed Tomography: An alternative imaging modality for the hand surgery 0'
Horst Zajonc (Germany), N. Leibig, J. Thiele, J. Neubauer, S. Goerke, B. Stark
- 4088 09:23 8' Cine MRI for TFCC 0'
Toshiyasu Nakamura (Japan)
- 4089 09:31 8' Ultrasound as a Diagnostic Tool for peripheral Nerve Lesions 0'
- 4090 09:39 8' New Trends in diagnostic Ultrasound in Hand Surgery 0'
Sebastian Kluge (Switzerland)
- 09:47 0' Discussion 13'

07:00–08:00 PS72 Fractures and Dislocations Hand Short Papers A2

Chair: Elisabeth Haas (Germany), Adrian Obladen (Germany), Elisabete Ribeiro (Portugal)

Q&A

- 1411 07:00 3' Treatment of closed unstable proximal phalangeal fractures in the long fingers with a reusable and inexpensive external fixation system 1'
Sasa Hlede (Slovenia), O. Stanic Gruden, M. Oblak, K. Margic
- 1434 07:04 3' Modified thumb CMCJ stabilisation, accounting for contemporary biomechanical evidence: a case report applying systematic review findings 1'
Jeremy Rodrigues (United Kingdom), J. Wormald, L. Geoghegan, R. Zarb Adami, P. Bhardwaj
- 655 07:08 3' A new „chameleon“ device for external fixation for the hand 1'
Giovanna Petrella (Italy), E. Di Giovine, N. Della Rosa, G. Colzani, R. Adani

Scientific Programme – Wednesday

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- 380 07:12 3' Delayed surgery for bony mallet finger – a retrospective comparative study 1'
Masato Okazaki (Japan), K. Tazaki
- 1932 07:16 3' Collateral ligament injuries of metacarpophalangeal joints in athletes 1'
Jane C Messina (Italy), R. Sartore, P. Arrigoni, F. Torretta
- 1428 07:20 3' Early stimulation of bone consolidation in patients with pathological phalanges fracture: the role of biophysics stimulation 1'
Pierfrancesco Pugliese (Italy), F. De Francesco, P. Pangrazi, L. Senesi, A. Campodonico, M. Riccio
- 912 07:24 3' Fifth finger comminuted spiral fracture in horse riders related to rein hold technique 1'
Eduardo Pereira (Brazil), L. Filippini Lorimier Fernandes, L. Pereira
- 1362 07:28 3' Outcome of modified hemihammate arthroplasty in patients presenting after six weeks of injury 1'
Mohammed Tahir Ansari (India)
- 1666 07:32 3' Long-term Outcomes of Surgically Treated Metacarpal Fractures Using Bioabsorbable Plates. 1'
Kenji Kosugi (Japan), Y. Zenke, T. Oshige, K. Menuki, Y. Yamanaka, T. Tajima, A. Sakai
- 1744 07:36 3' Secondary dislocation after osteosynthesis of first metacarpal fractures – A retrospective analysis 1'
Esther Vögelin (Switzerland), S. Langen, C. Surke, S. Hirsiger
- 699 07:40 3' Intraosseous tension-band wiring for displaced Bennett's fracture 1'
Daniele De Spirito (Switzerland)
- 1171 07:44 3' Tips under the Skin: a Simple but Great Modification of Extension Block Pinning for Mallet Fractures 1'
Seung-Han Shin (South Korea [ROK]), Y. Lee, J. Kang, W. Kang, Y. Chung
- 192 07:48 3' Comparison among plate fixation, K-wire pinning, and conservative treatment for distal metacarpal fractures 1'
Yuki Fujihara (Japan), H. Ota, K. Watanabe
- 49 07:52 3' Comparison of radiological outcomes of closed reduction and percutaneous pinning through or not through the proximal first metacarpal in treatment of Bennett fractures 1'
Shuguo Xing (China), T. Mao, G. Wang, J. Tang

08:00–10:00 PS73 Fractures and Dislocations Hand 1

A2

Chair: David Shewring (United Kingdom), Alejandro Sandoval Daza (Colombia), Pankaj Ahire (India)

Q&A

- 4117 08:00 16' Mallet fractures and avulsion fractures of tendons and ligaments 0'
Pankaj Ahire (India)
- 180 08:16 6' Treatment of mallet fractures with a transverse two-hole mini plate 2'
Ge Xiong (China)

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- 1236 08:24 6' Supplemental Method for Reduction of Irreducible Mallet Finger Fractures by the Two Extension Block Technique: The Dorsal Counterforce Technique 2'
Young Ho Lee (South Korea [ROK]), S. Lee, Y. Lee, Y. Kim, C. Lee, Y. Chae, Q. Li, G. Baek
- 486 08:32 6' Factors related poor outcomes in the extension block pinning of mallet fractures 2'
Takeyasu Toyama (Japan), Y. Hamada, E. Horii, Y. Minamikawa, T. Saito
- 1669 08:40 6' New method for operative treatment of bony mallet fractures without transfixation of the distal interphalangeal joint – a biomechanical study 2'
Peter Schwendinger (Austria), L. Horling, R. Arora, W. Schmölz, R. Hörmann
- 1898 08:48 6' Preliminary experience with the litos/ dynamic finger distractor for proximal interphalangeal joint fracture dislocations 2'
Hannes Granberg (Sweden), A. Ibsen-Sørensen, P. Axelsson
- 1703 08:56 6' Volar fracture subluxation of PIP joint: A rare injury with a novel technique for treatment 2'
Ahmed Naeem Atiyya (Egypt), R. Soliman, I. Koriem, H. Abd El Hamid, M. Elbishbishi
- 235 09:04 6' Open reduction and internal fixation for dorsal fracture dislocation of the proximal interphalangeal joint: a series of 35 cases 2'
Masayoshi Ikeda (Japan), Y. Kobayashi, I. Saito, A. Shimizu, T. Ishii, D. Nakajima, M. Watanabe
- 764 09:12 6' The Stener-like lesion of the radial collateral ligament of the thumb. an anatomic study. 2'
Rafael Jakubietz (Germany), F. Gilbert, S. Bernuth, M. Jakubietz, R. Meffert
- 1022 09:20 6' The role of Magnetic Resonance Imaging (MRI) and Ultrasound (US) in the diagnosis of the thumb Stener lesion 2'
Juan Manuel Breyer (Chile), D. Junqueras, N. Zilleruelo, A. Bifani, F. Saxton, S. Undurraga, R. Ide, R. Gonzalez
- 1952 09:28 6' Definitive Management of Open Fractures of the Hand and Wrist in an Outpatient Setting: Is Urgent Debridement Necessary? 2'
Lee Osterman (United States of America), M. Gaspar, D. Black, P. Kane
- 572 09:36 6' Haptic assisted and VR-based training for minimally invasive K-wire drilling 2'
Johannes Maier (Germany), J. Perret, M. Simon, S. Schmitt-Rüth, T. Wittenberg, C. Palm, M. Huber
- 547 09:44 6' Hand injuries in sports – A retrospective analysis of 286 cases 2'
Viola Stögner (Germany), N. Krezdorn, P. Vogt

07:00–08:00 ME35 HaMiPla Best Paper Session

A3

Chair: Karl-Josef Prommersberger (Germany),
Riccardo Giunta (Germany)

Q&A

- 5028 07:00 8' The revenue from finger replantation and revision amputation: Is it cost-covering? 2'
Maxi Sacher (Germany)

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- 5029 07:10 8' Midterm results after sole percutaneous treatment for central impression fractures of the base of the middle phalanx. 2'
Hendrik Schöll (Germany)
- 5030 07:20 8' The malunited distal radius fracture – extra-articular correction without bone graft. 2'
Thomas Pillukat (Germany)
- 5031 07:30 8' Preferred treatment options of German hand surgeons in Dupuytren disease. 2'
Bert Reichert (Germany)
- 5032 07:40 8' Concerning the wrist-to-forearm-ratio of the median nerve ultrasound is not a suitable method for assessing the success of a carpal tunnel release. 2'
Eva-Maria Baur (Germany)

08:00–09:20 PS48 SLAC & SNAC TWF and Prothesis A3

Chair: *Martin Lautenbach (Germany), Michel Ernest H. Boeckstens (Denmark), Amit Gupta (United States of America)*

Q&A

- 321 08:00 6' Factors Associated with Conversion to Wrist Fusion after Proximal Row Carpectomy or Four Corner Arthrodesis 2'
Jan Jonas van Hernen (United States of America), J. Lans, N. Chen
- 778 08:08 6' Radiocarpal wrist arthrodesis with cannulated screws, case report 2'
Fidel Cayon (Ecuador), G. Alegria
- 1812 08:16 6' Total Wrist Arthroplasty in Rheumatoid and Posttraumatic Arthritis: Highly different survival rates 2'
Martin Chochole (Austria)
- 1871 08:24 6' Early results of first patients with Motec wrist arthroplasty in Latin America 2'
Lorena Parra (Chile), F. Pizarro, G. Droppelmann, A. Verdugo, C. Greene
- 114 08:32 6' Wrist replacment of keramik implantates 2'
Timofey Alexandrov (Russian Federation), V. Prohorenko, S. Chorniy, K. Simonova
- 142 08:40 6' Clinical Outcomes With the Amandys® Wrist Implant: Results of Seven Patients 2'
Mark Ross (Australia), G. Couzens, B. Hope
- 1397 08:48 6' Total wrist replacement: Metal on peek Articulation outcomes 2'
Senthoooran Raja (United Kingdom), F. Hill Cooper, R. Estfan, G. Packer
- 179 08:56 6' Pyrocarbon Interposition Arthroplasty (Amandys #CHR:reg#) for the Wrist: A Prospective Case Series 2'
Rahel Meier (Switzerland), C. Surke, D. Bignion, E. Vögelin
- 1899 09:04 6' Revision-Arthrodesis after Failed Total Wrist Arthroplasty 2'
Martin Lautenbach (Germany), A. Tenbrock
- 1560 09:12 6' Pyrocarbon Hemi- Wrist arthroplasty: 16 cases; Mean follow up two years. 2'
Allan Ibsen-Sörensen (Sweden), P. Axelsson

Scientific Programme – Wednesday

09:20–10:00 **PS143 Panel: SLAC & SNAC TWF and Prosthesis** **A3**

Chair: Martin Lautenbach (Germany), Michel Ernest H. Boeckstens (Denmark), Amit Gupta (United States of America)

Q&A

- 4169 **09:20** 8' Wrist Arthroplasty a standard Procedure for Wrist OA?
Amit Gupta (United States of America) 0'
- 987 **09:28** 8' High reoperation rate in 13 total wrist arthroplasties after 4 years
Ole Reigstad (Norway), T. Holm-Glad, B. Bolstad, S. Roness, J. Korslund, R. Thorkildsen, M. Rokkum 0'
- 980 **09:36** 8' Long-term results after total wrist fusion using the AO-plate
Careen Knie-Heinemann (Germany), J. van Schoonhoven 0'
- 09:44** 0' Panel Discussion 16'

07:00–08:00 **PS39 Nerve Short Papers: Carpal Tunnel Syndrome – Technique** **A4**

Chair: Elias Volkmer (Germany), Simonetta Odella (Italy), Ruban Sivanoli (Malaysia)

Q&A

- 119 **07:00** 3' Incision directly above versus Distal incision in Open Carpal Tunnel Release. Does the incision, which is avoided directly above the flexor retinaculum, lead to faster relief of the carpal pain? – A prospective randomized controlled trial -
Hiromichi Yasuoka (Japan) 1'
- 222 **07:04** 3' Endoscopic carpal tunnel release with or without a suture. Is there a difference?
Iwein Piepers (Belgium), J. Goubau, F. Bonte, B. Vanmierlo 1'
- 460 **07:08** 3' Comparison of ultrasound-guided versus blind corticosteroid injection for carpal tunnel syndrome: a prospective randomized trial
Young Hak Roh (South Korea [ROK]), S. Hong, H. Gong, G. Baek 1'
- 1186 **07:12** 3' Endoscopic anatomy in carpal tunnel surgery.
Amirouche Dahmam (France), J. Roux, G. Meyer zu Reckendorf 1'
- 1884 **07:16** 3' The Endoscopic Carpal Tunnel Release in 175 Patients: Learning Curve, Complications and 1.5 Year Review
Alexander Schütz (Germany), K. Haas, D. Löhnert 1'
- 1803 **07:20** 3' Clinical outcomes in revision carpal tunnel decompression using the AxoGuard nerve protector
RaviKanth Mallina (United Kingdom), P. Jordaan, D. Power 1'
- 77 **07:24** 3' The Hypothenar Fat Pad Flap Surgery for End Stage Carpal Tunnel Syndrome
Tom Lattre (Belgium), S. Brammer, S. Parmentier, C. van Holder 1'
- 783 **07:28** 3' Surgery and Rehabilitation Following Revision Open Carpal Tunnel Release with Hypothenar Fat-pad Flap
Thomas Maxwell (Australia), W. Walsh, M. Ross 1'

Scientific Programme – Wednesday

1514	07:32	3'	Do we need an opioid for the pain control after carpal tunnel release? a randomized controlled study	1'
			<i>Chang-Hun Lee (South Korea [ROK]), W. Choi, S. Kim, J. Kim, K. Lee</i>	
1765	07:36	3'	Is night pain the most disturbing symptom for patients with carpal tunnel syndrome?	1'
			<i>Beata Bajdik (Hungary), B. Lenkei, A. Lakatos</i>	
632	07:40	3'	How trapeziometacarpal arthritis and scaphotrapeziotrapezoidal arthritis affect the postoperative recovery of carpal tunnel syndrome.	1'
			<i>Kaori Sugiura (Japan), T. Omura, M. Miyagi, T. Sawada, R. Okabayashi, T. Ogawa, H. Ogiwara, Y. Matsuyama</i>	
390	07:44	3'	Outpatient neuromodulation may avert the need for surgery in patients with painful cutaneous neuromas	1'
			<i>Abhishek Kumar Das (United Kingdom), C. Ng</i>	
08:00–09:00 PS40 Nerve Short Papers: CTS – Diagnosis and Indication				A4
Chair: <i>Holger C. Erne (Germany), Kalin Angelov (Bulgaria), Jorge Vergara (Chile)</i>				Q&A
1200	08:00	3'	Use of ultrasonography in carpal tunnel syndrome diagnosis	1'
			<i>M. Perteu, S. Ursu, Oxana-Madalina Grosu (Romania)</i>	
734	08:04	3'	Intraoperative NCS During Open Carpal Tunnel Release: A Pilot Study	1'
			<i>Dominick Congiusta (United States of America), M. Yeranorian, D. Abdelshahed, S. Brito, P. Yonclas, M. Vosbikian, I. Ahmed</i>	
144	08:08	3'	Predictors of outcome in untreated carpal tunnel syndrome: results of a longitudinal cohort study	1'
			<i>Christina Jerosch-Herold (United Kingdom), J. Houghton, E. Wilson, J. Blake, L. Shepstone</i>	
1995	08:12	3'	Effectiveness of ultrasonography and nerve conduction studies in the diagnosing of carpal tunnel syndrome: clinical trial on accuracy	1'
			<i>Benedito Felipe Rabay Pimentel (Brazil), F. Faloppa, M. Tamaoki, J. Belloti</i>	
1907	08:16	3'	Diagnosis und therapy of isolated flexor pollicis longus fascicle lesions	1'
			<i>Johannes Mayer (Austria), A. Gohritz, S. Salminger, G. Bodner, J. Friden, O. Aszmann</i>	
1888	08:20	3'	Does timing of carpal tunnel release influence the results?	1'
			<i>Zoltan Nemeth (Hungary), B. Lenkei, A. Lakatos, Z. Szabo</i>	
1954	08:24	3'	Concomitant Ipsilateral Endoscopic Carpal and Cubital Tunnel Release: A Single-Center Review of 103 Consecutive Cases	1'
			<i>Lee Osterman (United States of America), M. Gaspar, S. Smith, M. Osterman, P. Kane</i>	
111	08:28	3'	Diagnostic Significance of Median Nerve Strain and Applied Pressure Measurement after Carpal Tunnel Release	1'
			<i>Yuichi Yoshii (Japan), S. Teramura, H. Yuine, T. Ishii</i>	

Scientific Programme – Wednesday

- 439 08:32 3' An analysis of the course of carpal tunnel syndrome before operation 1'
Andrzej Zyluk (Poland), P. Puchalski
- 491 08:36 3' Recurrent and persistent carpal tunnel syndrome: predicting clinical outcome 1'
of revision surgery
Pepijn Sun (Netherlands), R. Selles, M. Jansen, H. Slijper, D. Ulrich, E. Walbeehm
- 122 08:40 3' Evaluation of altered little finger sensation in patients with carpal tunnel 1'
syndrome treated with median nerve surgical release
Larissa Miyashiro Yamashita (Brazil), C. Fernandes, L. Miyamoto Meirelles, F. Faloppa, J. Baptista Gomes dos Santos
- 1882 08:44 3' Long Term Functional Results of Camitz opponensplasty in Severe Carpal 1'
Tunnel Syndrome with Severe Thenar Atrophy
Nash Naam (United States of America), A. Massoud
- 466 08:48 3' Nerve transfers for non traumatic diseases in children 1'
Jörg Bahm (Germany)

09:00–10:00 PS82 Nerve Short Papers: Anatomy, Epidemiology A4

Chair: *Peter Murray (United States of America), Sharifah Roohi (Maylasia), Leila Harhaus (Germany)*

Q&A

- 1584 09:00 3' 1015 peripheral nerve injuries of the upper extremity – Epidemiology and 1'
Cost analysis
Leila Harhaus (Germany), K. Bergmeister, P. Rhodius, L. Große-Hartlage, M. Beyersdorff, A. Böcker, U. Kneser
- 1118 09:04 3' Incidence of peripheral nerve trauma in England between 2006-2016 – 1'
time to increase resources for peripheral nerve trauma of the hands
and upper limb?
Jacky Chen (United Kingdom), R. Murphy, A. Reid
- 1969 09:08 3' CoNNECT: 6 month follow up data for a randomised controlled trial in 1'
digital nerve repair
Sunil Parthiban (United Kingdom), D. Power, M. Foster, S. Beale, D. Ghall, B. Nizar
- 557 09:12 3' Is Carpal Tunnel Syndrome (CTS) two different diseases? A Joint Analysis 1'
of 2 Longitudinal Cohort Studies from USA and England Totalling
935,000 Cases
Jennifer Lane (United Kingdom), R. Craig, G. Lalchandani, D. Prieto-Alhambra, J. Green, P. Rahgozar, I. Immerman, D. Furniss
- 657 09:16 3' Return to employment after carpal tunnel release (REACTS): a prospective 1'
cohort study
Lisa Newington (United Kingdom), D. Warwick, T. Salika, J. Adams, K. Walker-Bone
- 947 09:20 3' Smoking as risk factor for carpal tunnel syndrome: a birth cohort study 1'
Sina Hulkkonen (Finland), J. Auvinen, J. Miettunen, J. Karppinen, J. Ryhänen

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- 881 09:24 3' Socioeconomic Factors predicting Outcome after Open Carpal Tunnel Release
Malin Zimmerman (Sweden), E. Nyman, L. Dahlin 1'
- 149 09:28 3' Radiographic characteristics of wrists in idiopathic carpal tunnel syndrome patients.
Kazuhiro Ikeda (Japan), Y. Yoshii, T. Ishii 1'
- 428 09:32 3' Anatomic Study of the Endoscopic Carpal Tunnel release
Jorge Quintero-Perez (United States of America), E. Galvis 1'
- 1763 09:36 3' carpal tunnel and median nerve volumes changes before and after carpal tunnel surgery (Comparison of endoscopic and mini open technique)
Nazmi Bulent Alp (Turkey) 1'
- 1412 09:40 3' Nerve Diameter of the Hand: A Cadaveric Study
Ritsaart Westenberg (United States of America), R. Ortiz, C. Langhammer, W. Knaus, N. Chen, K. Eberlin 1'
- 18 09:44 3' Neural Perforasomes of the Upper Extremity
Steven Koehler (United States of America), D. Ruch, S. Mithani 1'
- 1620 09:48 3' Dynamic Carpal Tunnel. Association of the incursion of the lumbrical muscles in the carpal tunnel as an etiological factor
Ramon de Bedout (Colombia) 1'
- 422 09:52 3' Accessory Palmaris Longus causing carpal tunnel syndrome
Ian Dhanaraj (Singapore), J. Yuan, H. Ng, V. Rajaratnam 1'
- 806 09:56 3' Can cross sectional area of median nerve predict the prognosis of local steroid injection for carpal tunnel syndrome?
Hyun Il Lee (South Korea [ROK]) 1'

07:00–08:00 PS95 Wide Awake Short Papers

A5

Chair: Donald Lalonde (Canada), Samuel Ribak (Brazil),
Horst Zajonc (Germany)

Q&A

- 1122 07:00 3' Wide Awake surgery, team work between surgeon, anesthetist and patient.
Filipa Santos Silva (Portugal), P. Wircker, O. Cardoso, J. Maia 1'
- 1193 07:04 3' Maximum utility and certain safety for WALANT Technique in Hand Surgery
Oxana-Madalina Grosu (Romania), S. Lunca, M. Pertea 1'
- 1609 07:08 3' Wide awake local anaesthesia no tourniquet technique (WALANT) for hand surgery: an observational study for patient agreement
Olivier Mares (France), P. Kouyoumdjian, P. Cuvillon, H. Dietrich, R. Coulomb 1'
- 1652 07:12 3' Efficiency, setup, impact and distribution of the procedures in a wide-awake surgical theater built within the department ward: a review of surgical procedures in a year period
Shuguo Xing (China), T. Mao, G. Wang, J. Tang 1'
- 509 07:16 3' Late primary FDP tendon repair under walant
Thomas Apard (France), V. Costil, E. Ayhan 1'

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- 952 07:20 3' WALANT in tendon transfers in the forearm and hand. Our experience
Constantinos Kritiotis (United Kingdom), L. Muir, Z. Naqui, A. Pearce 1'
- 514 07:24 3' Tendon transfer and wide awake: innovation and high functional result
Giovanna Petrella (Italy), R. Adani 1'
- 148 07:28 3' Radioscapholunate fusion under Wide Awake Surgery
Nur Azree Ferdaus Kamudin (Malaysia), A. Ahmad, S. Abdullah 1'
- 375 07:32 3' Wide Awake Local Anesthesia No Tourniquet (WALANT) versus General Anesthesia for Plating Distal Radius Fractures
Amir Adham Ahmad (Malaysia), M. Liew, A. Ahmad 1'
- 53 07:36 3' The WALANT approach to distal radius ORIF
Constantinos Kritiotis (United Kingdom), Z. Naqui, L. Muir, A. Pearce 1'
- 34 07:40 3' Wide-awake surgical operations performed over a 25-month period in Tianjin: Analysis of applications and technical extension
Jianhua Xu (China), K. Gong, H. Zhan, J. Zhang, Q. Zhou, L. Han, Y. Lu, L. Yin, Z. Yin, B. Zhang 1'
- 1310 07:44 3' WALANT Carpal Tunnel Release: Technical Considerations and Pain Outcomes
Julia Ruston (United Kingdom), D. Nikkhah, R. Pearl, J. Blair 1'
- 1069 07:48 3' WALANT or Bier Block? A Prospective Cohort Study for Patients' Perspective on Anesthesia Type for Carpal Tunnel Surgery
Egemen Ayhan (Turkey), F. Akaslan 1'
- 1889 07:52 3' Surgical treatment of proximal nerve entrapment at the elbow by release of the lacertus fibrosus release with ultra soundguided surgery and WALANT
Gilles Candelier (France), Y. Favennec, T. Aparad 1'
- 1859 07:56 3' Ulnar nerve decompression or transposition under wide-awake local anesthesia without tourniquet management of cubital tunnel syndrome
Shuguo Xing (China), T. Mao, G. Wang 1'

08:00–09:20 PS96 Wide Awake

A5

Chair: *Alistair Phillips (United Kingdom), Jeff Ecker (Australia)*

Q&A

- 1668 08:00 6' Wide-Awake Local Anesthesia No Tourniquet (WALANT) Versus Local or Intravenous Regional Anesthesia with Tourniquet In Elective Hand Surgeries: A Systematic Review And Meta-Analysis
Ted Matthew P. Evangelista (Philippines), J. Pua, M. Huber 2'
- 1283 08:08 6' Hand surgery in a clinic setting using ultrasound percutaneous procedures: a review of 1100 procedures
Pierre Croutzet (France), I. Djerbi, R. Guinand 2'
- 510 08:16 6' Wide awake ultrasound guided percutaneous anterior interosseous nerve release
Thomas Aparad (France), V. Costil, G. Candelier, D. Lalonde 2'

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1665	08:24	6'	Wide-Awake versus General Anesthesia Results in Patients with Dupuytren's Disease Surgery: Preliminary Results <i>Zeynep Tuna (Turkey), A. Guroz, E. Ayhan</i>	2'
1861	08:32	6'	Outcomes of flexor tendon repairs in zones 2 under wide-awake local anesthesia no tourniquet <i>Shuguo Xing (China), T. Mao, G. Wang</i>	2'
939	08:40	6'	Open carpal tunnel release with local anesthesia: ischemia vs walant comparative study <i>Jose Joaquin Diaz Lopez (Mexico), J. Cruz, F. Vazquez Alonso</i>	2'
646	08:48	6'	Epinephrine-local anesthesia – no tourniquet for carpal tunnel release – 66 cases <i>Solange Ferraguti (Argentina), L. Poitevin</i>	2'
1368	08:56	6'	Using wide-awake local anesthesia in the secondary reconstructive surgery after wrist replantation <i>Dun-Hao Chang (Taiwan), C. Hsieh, K. Chang</i>	2'
931	09:04	6'	WALANT Surgery, Advanced techniques in wrist surgery <i>Carlos Ramos Pina (Portugal), A. Lousada, C. Ferreira, V. Rodrigues, S. Figueiredo, L. Machado</i>	2'
48	09:12	6'	Extending application of wide-awake surgery: flap harvest and transfer in the hand in 39 patients <i>Shuguo Xing (China), T. Mao, G. Wang, J. Tang</i>	2'

09:20–10:00 PS35 Panel: Wide Awake A5

Chair: *Donald Lalonde (Canada), Jin Bo Tang (China), Elisabet Hagert (Sweden)*

4056	09:20	8'	FPL Rupture Reconstruction with Tendon Transfer vs. Graft based on WALANT Observation <i>Mineyuki Zukawa (Japan)</i>	0'
4057	09:28	8'	WALANT Lacertus Release <i>Elisabet Hagert (Sweden)</i>	0'
4058	09:36	8'	WALANT to restore better Movement <i>Mike Hayton (United Kingdom)</i>	0'
4059	09:44	8'	Current most important Details to ensure best Results in WALANT Surgery <i>Donald Lalonde (Canada)</i>	0'
	09:52	0'	Panel Discussion	8'

08:00–10:00 PT22 Free Paper Session I A8

Chair: *Lisa OBrien (Australia)*

9054	08:00	8'	Self-efficacy corresponds to wrist function after combined plating of distal radius fractures. <i>Marie Björk (Sweden), J. Niklasson, E. Westerdahl, M. Sagerfors</i>	0'
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Scientific Programme – Wednesday

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- 9257 08:08 8' Efficacy of treatment after intra-articular distal radius fractures using dart-throwing motion: a randomized controlled trial 0'
Yael Kaufman-Cohen (Israel), Y. Yaniv, S. Portnoy, J. Friedman, Y. Levanon
- 9043 08:16 8' Effects of a Non-surgical Rehabilitation Program on Pain and Function for Adults with Acute Triangular Fibrocartilage Complex Injury 0'
Liying Pang (Singapore), Y. Lye, U. Tai
- 9094 08:24 8' Sensorimotor control based exercise program for patients with chronic wrist problems 0'
Freek Lötters (Netherlands), A. Videler, T. Schreuders
- 9104 08:32 8' Total Wrist Fusion and Total Wrist Arthroplasty in Patients with Osteoarthritis: A Qualitative Analysis of Expectations, Involvement and Appraisal of Results 0'
Sara Larsson (Sweden), I. Carlsson, A. Björkman, H. Rosberg, E. Brogren
- 9111 08:40 8' Forearm supination must be avoided during scapholunate ligament-stability exercise programme. A kinetic study in cadavers. 0'
Mireia Esplugas (Spain), A. Lluch Bergada, M. Garcia-Elias, G. Salva-Coll, N. Fernandez
- 08:48 0' Q&A 8'
- 9255 08:56 8' Alternative management of mallet finger injuries based on finger biomechanics 0'
Juliana Larocerie (Canada), S. Chinchalkar
- 9239 09:04 8' Analyzing the effects of a dynamic or static orthosis after radical nerve injury using the Nine-Hole Peg Test 0'
Raquel Cantero-Tellez (Spain), S. Garia-Orza, J. Villafane, V. Kristin
- 9297 09:12 8' Outcomes of Thirty cases treating with relative motion splint for zone 4-7 extensor tendon injury with wide awake local anesthesia and without tourniquet surgery (WALANT) 0'
Peggy Marque (France), G. Candelier, T. Apard, D. Lalonde
- 9242 09:20 8' Is it possible to combine art and rehabilitation procedures? Therapeutic jewelry – unique combination between design and therapy 0'
Marta Jokiel (Poland), E. Dulcet, M. Swierczynska, S. Du Meng, L. Romanowski
- 9051 09:28 8' The Effectiveness of the Joint Active Systems (JAS) orthosis for treatment of prolonged joint stiffness 0'
Hanna Melchior (Israel), M. Carmen, D. Langer
- 9196 09:36 8' An Innovative Adjustable Hinge Splint Design for Metacarpophalangeal Joint Arthroplasty 0'
Cindy Holmes (Canada), D. Lau, J. Shih, D. Klassen, M. Labrentz
- 09:44 0' Q&A 8'
- 9509 09:52 8' American Hand therapy foundation 0'
Dorit Aaron (United States of America)

10:00–10:30 Coffee Break

Visit of Industry and ePoster Exhibition

Scientific Programme – Wednesday

10:30–12:30 **PS29 Radius Fracture 2**

A6-7

Chair: *Sanjeev Kakar (United States of America), Giulio Lauri (Italy), Philipp Anwandter (Chile)*

Q&A

- | | | | | |
|------|-------|----|---|----|
| 395 | 10:30 | 6' | Dorsal fracture-dislocations of the distal radius: a new classification and proposal of a standardized surgical treatment
<i>Giulio Lauri (Italy), M. Biondi, S. Pfanner, P. Bigazzi, M. Ceruso</i> | 2' |
| 800 | 10:38 | 6' | Stainless steel versus titanium volar multi-axial locking plates for fixation of distal radius fractures: a randomised trial
<i>Greg Couzens (Australia), J. Alexander, P. Hak, S. Rayner, S. Frederiksen, S. Peters, L. Lee, J. Loveridge, J. Logan, M. Ross</i> | 2' |
| 986 | 10:46 | 6' | Prevalence of Flexor Carpi Radialis Brevis in Chinese Patients with Volar Wrist Plating Performed for Distal Radius Fracture
<i>Bernadette Lok Yiu Cheng (Hong Kong), E. Yau, N. Yip</i> | 2' |
| 1827 | 10:54 | 6' | Long-term outcomes after the intra-articular distal radius fractures with volar locking plate
<i>Takafumi Tajima (Japan), Y. Zenke, K. Menuki, Y. Yamanaka, K. Kosugi, A. Sakai</i> | 2' |
| 402 | 11:02 | 6' | Utility of Image Fusion System for 3D Preoperative Planning in the Osteosynthesis of Distal Radius Fractures
<i>Yuichi Yoshii (Japan), Y. Totoki, S. Sashida, T. Ishii</i> | 2' |
| 1845 | 11:10 | 6' | Computer-assisted Fragment Reduction of Distal Radius Fractures Depends on Surgical Planning Experience
<i>Christoph Zindel (Switzerland), P. Fuernstahl, A. Schweizer, S. Roner</i> | 2' |
| 1605 | 11:18 | 6' | Impact of Plate Design on Contact Force Between Flexor Tendons and Distal Radius Volar Plates
<i>Ido Volk (Israel), K. Hinchcliff, X. Ivanova, S. Taylor, R. Szabo</i> | 2' |
| 955 | 11:26 | 6' | Volar Plating of Distal Radius Fractures: Comparison of the Functional Outcomes of the Pronator Quadratus Muscle Repair, Non-repair, and Preserving Techniques
<i>J. Gu, Jong-Pil Kim (South Korea [ROK]), J. Jung</i> | 2' |
| 448 | 11:34 | 6' | Intramedullary fixation using artificial bone block for comminuted distal radius fractures suppresses the reduction loss after the surgery
<i>Ryosuke Satoh (Japan), S. Nakano, N. Hibino, M. Nakamura, S. Yoshioka, M. Takeuchi, T. Higuchi, Y. Hamada, K. Sairyo</i> | 2' |
| 1690 | 11:42 | 6' | Surgical technique to improve the reduction of fractures of distal radius by "Screw Post". Technique and patient follow-up
<i>Julio Sandoval (Colombia), C. Romero, C. Estrada</i> | 2' |
| 1217 | 11:50 | 6' | High Velocity Distal Radius Fractures – a cohort study
<i>Alphonsus Chong (Singapore), A. Lim</i> | 2' |
| 30 | 11:58 | 6' | Intramedullary nail fixation for displaced and unstable distal radial fractures in patients fifty years of age and older
<i>Takuma Wakasugi (Japan), K. Saito, H. Suzuki</i> | 2' |

Scientific Programme – Wednesday

- 705 12:06 6' Plate fixation for unstable displaced distal radius fractures in children 2'
Caroline Selles (Netherlands), J. Egmond, B. Cleffken, G. Roukema, C. van der Vlies, N. Schep
- 312 12:14 6' Adaptive 2 plate used as a monoaxial locking plate has sufficient fixation 2'
 stability for osteoporotic distal radius fracture equal to Acu-Loc 2'
Yusuke Sogabe (Japan), T. Egi, Y. Morimoto, M. Shigi, A. Kawabata, K. Takamatsu

10:30–11:30 PS46 Innovation – Economics

A1

Chair: Joachim Windolf (Germany), Boaz Granoth (Israel), David Shewring (United Kingdom)

Q&A

- 1110 10:30 3' Use of biological therapy in post-surgical scar adhesions in performing 1'
 musicians
Adriana Pemoff (Argentina), C. Torre, H. Blanchetiere, S. Lett, M. Landro
- 1945 10:34 3' High pressure trauma of the upper limb: clinical patterns and review 1'
Davide Smarrelli (Italy)
- 1420 10:38 3' Pathology distribution of upper limb emergency cases admitted in plastic 1'
 and reconstructive surgery department of SCUB – eighteen months
 retrospective study
Alexandru Stoian (Romania), A. Grosu-Bularda, C. Onciu, I. Lascar, C. Hariga
- 1840 10:42 3' Hand and wrist injuries following motorcycle traffic accidents in Medan, 1'
 North Sumatra, Indonesia
Aga Shahri Putra Ketaren (Indonesia), D. Kalim, D. Utama, E. Nindita
- 355 10:46 6' The economic impact of anaesthesia methods used in hand surgery: 2'
 global costs and operating room's throughput
Olivier de Boccard (Switzerland), C. Mueller, T. Christen, W. Raffoul
- 1897 10:54 6' The Safety of Hand and Upper-Extremity Surgical Procedures at a 2'
 Freestanding Ambulatory Surgery Center:
 An Updated Review of 41,751 Cases
Glenn Buterbaugh (United States of America), J. Peterson, J. Imbriglia
- 1706 11:02 6' Knife Crime-related Injuries: Clinical, Operational and Financial Impact 2'
Rizwana Imran (United Kingdom), C. de Courcey, K. Lee, B. Munoz, D. Chester, M. Foster
- 1505 11:10 6' Cancellations in emergency plastic surgery: A three month experience 2'
 in a tertiary referral centre.
Dominika Michno (United Kingdom), W. Konczalik, P. Singh, R. Agha, M. Akhavan, N. Toft
- 327 11:18 6' Hand injuries of coal miners in southern West Virginia with a focus on 2'
 injury locations and distance analysis to treatment facilities
John David Hayes (United States of America), F. Annie, R. Viradia

Scientific Programme – Wednesday

11:30–12:30 **PS141 Innovation 1** A1

*Chair: Joachim Windolf (Germany), Boaz Granoth (Israel),
David Shewring (United Kingdom)*

Q&A

- 267 **11:30** 6' Revisiting "Sandwich" Plating of AO type C3 Distal Radius Fractures – Our Friend or Foe? A case series. 2'
Siew Khei Liew (Malaysia), I. Abdul Samad, M. Arumugam
- 873 **11:38** 6' Contusion Neuropraxia of Cutaneous Sensory Nerves: Early Diagnosis and Treatment Reduces Chronic Pain Syndromes (Early Diagnosis Shortens Recovery Time) 2'
Tina Lee (Singapore), L. Chia, D. Chia, F. Yong
- 1702 **11:46** 6' Painful end-neuromas of the upper limb treatment with fat graft. Evidences from an Italian multicentric stud 2'
Michele Colonna (Italy), F. Bassetto, G. Pajardi, B. Battiston, L. Vaianti, M. Riccio, G. Risitano, R. Perrotta, A. Cordova, G. De Santis
- 23 **11:54** 6' Eliminating Opioid Use for Postoperative Pain Management following Soft Tissue Surgery Produces Acceptable Outcomes When Performed Using Wide Awake Local Anesthesia No Tourniquet (WALANT) 2'
Steven Koehler (United States of America), D. Choueika, N. Shah, J. Newman
- 1991 **12:02** 6' The Opiod Epidemic in the US: A Method for Changing the Opioid Prescribing Habits of Surgeons 2'
David Nelson (United States of America)
- 1291 **12:10** 6' Validation of digital tourniquet pressures: T-Ring compared with conventional surgical glove 2'
Byung Jun Kim (South Korea [ROK]), H. Kim, T. Kim, H. Yoo, N. Yu, J. Hu, S. Kwon

10:30–12:30 **PS74 Fractures and Dislocations Hand 2** A2

*Chair: Peter C. Amadio (United States of America), David Alagar (Philippines),
Yang-Guk Chung (South Korea)*

Q&A

- 4116 **10:30** 16' Difficult fractures of the proximal phalanx 0'
Peter Houpt (Netherlands)
- 1746 **10:46** 6' Proximal phalangeal fractures – Is it worth fixing them? 2'
Sunil Parthiban (United Kingdom), M. Gupta
- 1024 **10:54** 6' Minimally invasive corrective osteotomy of the proximal phalanx: A biomechanical study 2'
Sten Deschuyffeleer (Belgium), J. Duerinckx, P. Caekebeke
- 2008 **11:02** 6' Management of Proximal Interphalangeal Joint Repetitive Stress Epiphyseal Fractures in Sport Climbers 2'
Christoph Lutter (Germany), V. Schöffl, I. Schöffl, Y. El-Sheikh, S. Flohé

Scientific Programme – Wednesday

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- 437 11:10 6' The use of titanium miniature plates and screws for the treatment of intra and extra-articular fractures of the hand 2'
Ioannis Antoniou (Greece), E. Athanaselis, F. Papageorgiou, D. Agorastakis, Z. Dailiana, K. Malizos, S. Varitimidis
- 1493 11:18 6' The use of Joshi external fixator (JESS: Joshi external stabilization system) in hand fractures: The best cost-benefit ratio 2'
Simonetta Odella (Italy), F. Olivero, A. Crosio, J. Flore, F. Palumbo, U. Dacatra, P. del Bo, P. Tos
- 1901 11:26 6' Intramedullary cannulated headless compression screws osteosynthesis for metacarpal and phalangeal fractures 2'
Alessandro Fagetti (Italy), F. Fissore, P. Borelli, D. Giroto, M. Cherubino, M. Surace
- 1353 11:34 6' Percutaneous corrective osteotomy for malunited metacarpal and phalangeal fractures 2'
Christopher Jenkins (United Kingdom), A. Smith, M. Howard, G. Giddins
- 1239 11:42 6' Distal phalanx fractures management with 23 gauge percutaneous needles vs Kirschner wires. 2'
Letizia Senesi (Italy), F. De Francesco, A. Marchesini, P. Pangrazi, M. Riccio
- 1157 11:50 6' Sailor finger 2'
Marcelo Schieber (Argentina), A. Pemoff, M. Capella, P. Tajan, A. Boianelli, A. Oviedo, A. Payalaf, F. Castillo
- 1797 11:58 6' Early Active Vector Adjustable Skin Traction (EAVAST) for phalangeal fractures of the hand 2'
Jason Lam (Australia), J. Fairclough, J. Diab, S. Wood, Q. Chan, M. Dowd
- 244 12:06 6' Preservation of metacarpophalangeal joint function in traumatic defects by metatarsophalangeal osteochondral transplantation 2'
Steffen Löw (Germany), M. Papay, C. Eingartner
- 1506 12:14 6' Irreducible dislocations of the metacarpophalangeal joints – history and 24 cases 2'
Martin Franz Langer (Germany), B. Wieskötter, S. Oeckenpöhler
- 1535 12:22 6' Arthroscopic reduction/Internal Fixation for common articular fractures of the Metacarpophalangeal joints 2'
Alejandro Badia (United States of America)

10:30–11:35 PS133 Nerve CTS

A3

Chair: Frank Siemers (Germany), Hitoshi Hirata (Japan),
Murray Beagley (New Zealand)

Q&A

- 1783 10:30 6' Assessment of surgical treatment for carpal tunnel syndrome. Endoscopic vs Open release. 2'
Jhon Fredy Castaneda Lopez (Colombia), D. Rincon, A. Kafury, J. Rojas Neira
- 665 10:38 6' Interest of endoscopic release in recurrent carpal tunnel syndrome 2'
Amirouche Dahmam (France), G. Meyer zu Reckendorf, J. Roux

Scientific Programme – Wednesday

- 1462 10:46 6' Bilateral Endoscopic Carpal Tunnel Release versus unilateral carpal tunnel release 2'
Cristobal Greene (Chile), A. Garcia, L. Parra, A. Villavicencio, G. Droppelmann
- 658 10:54 6' What factors influence the need for revision surgery? A 19-year longitudinal cohort study of 855,832 carpal tunnel decompression surgeries in England. 2'
Jennifer Lane (United Kingdom), R. Craig, J. Green, D. Prieto-Alhambra, D. Furniss
- 438 11:02 6' An analysis of patient's and disease related factors predictive of the outcomes of surgery for carpal tunnel syndrome 2'
Andrzej Zyluk (Poland), P. Zyluk-Gadowska, Z. Szlosser
- 1220 11:10 6' Is it worth operating severe, old carpal tunnel syndrome? Which technique? 2'
Amina Shammam (Romania), V. Gyebnar, M. Mastacaneanu, I. Popa, V. Romanescu
- 1092 11:18 6' How does thenar atrophy influence the outcome of carpal tunnel release? 2'
Adrienn Lakatos (Hungary), B. Lenkei, Z. Szabo
- 1761 11:26 6' Effectiveness of operative treatment in chronic long-lasting carpal tunnel cases 2'
Marta Twardowska (Poland), M. Jokiel, E. Breborowicz, P. Czarnecki, L. Romanowski

11:35–12:30 PS134 Panel: Nerve CTS – open vs. endoscopic A3

Chair: Michel Merle (Luxembourg), Hiroyuki Kato (Japan),
Ivica Ducic (United States of America)

Q&A

- 1366 11:35 8' 10 years' single center experience over different surgical techniques in treatment of carpal tunnel syndrome. 0'
Efstathios Athanaselis (Greece), F. Papageorgiou, A. Fyllos, D. Deligeorgis, I. Antoniou, K. Malizos, S. Varitimidis
- 1709 11:43 8' Comparing Functional Outcomes of Endoscopic and Open Carpal Tunnel Release from the Patient's Perspective 0'
Suleen Low (Singapore), M. Tan, P. Tong, V. Rajaratnam
- 4193 11:51 8' Who benefits from the new techniques? 0'
Michel Merle (Luxembourg)
- 1101 11:59 8' Carpal Tunnel Syndrome – Should we treat it mini-open or endoscopic ? 0'
Fernando Cruz (Portugal), S. Silverio, L. Fernandes
- 12:07 0' Discussion 22'

10:30–12:30 PT25 Surgery and Therapy for Congenital Differences: Updates and changes in practice A4

Chair: Aviva Wolff (United States of America), Markus Mahl (Germany)

Q&A

- 9422 10:30 15' Surgical advances for arthrogryposis 0'
Eva Ponten (Sweden)

Scientific Programme – Wednesday

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9423	10:45	15'	Surgical options for upper limb spasticity in cerebral palsy: an update <i>Caroline Leclercq (France)</i>	0'
9424	11:00	15'	Surgery for hypoplastic thumb and pollicizations: What has changed? <i>Shai Luria (Israel)</i>	0'
9425	11:15	15'	Hand Therapy for CP: What's new? What's True? And what can therapists do? <i>Aviva Wolff (United States of America)</i>	0'
9426	11:30	15'	Thalidomide Embryopathy – Long term consequences. <i>Rudolf Beyer (Germany)</i>	0'
9427	11:45	15'	Use of new technologies for surgical planning for congenital hand <i>Aaron Daluiski (United States of America)</i>	0'
9428	12:00	15'	Novel splinting options post congenital hand surgery <i>Maren Schelly (Germany)</i>	0'
	12:15	0'	Q&A	15'

10:30–11:10 **PS142 Panel: Rheumatoid Hand Surgery in the Era of Biologics** A5

Chair: Nicola Borisch (Germany), Massimo Ceruso (Italy), Daniel B. Herren (Switzerland)

Q&A

4039	10:30	10'	Does the Rheumatologist cure Rheumatoid Arthritis today? <i>Susan Goodman (United States of America)</i>	0'
4040	10:40	10'	Is there less rheumatoid handsurgery today? – The Japanese experience <i>Hajime Ishikawa (Japan)</i>	0'
4041	10:50	10'	Latest treatment strategies in rheumatoid hand surgery <i>Massimo Ceruso (Italy)</i>	0'
	11:00	0'	Panel Discussion	10'

11:10–12:30 **PS19 Rheumatoid Rheumatoid Hand Surgery in the Era of Biologics** A5

Chair: Nicola Borisch (Germany), Massimo Ceruso (Italy), Daniel B. Herren (Switzerland)

Q&A

138	11:10	6'	Mid-to-long term Outcomes of Convertible Total Elbow Arthroplasty for Patients with Rheumatoid Arthritis <i>Graham King (Canada), J. Strelzow, T. Frank, K. Faber, G. Athwal</i>	2'
678	11:18	6'	Mid-term results of K now total elbow arthroplasty <i>Takaya Mizuseki (Japan), T. Masuda, O. Suzuki</i>	2'
1371	11:26	6'	A new approach in treatment of rheumatoid arthritis in metacarpophalangeal and interphalangeal joints <i>Igor Obukhov (Russian Federation)</i>	2'

Scientific Programme – Wednesday

- 182 11:34 6' Risk factors contributing to the early implant fracture of AVANTA silicone implant for the treatment of MP joint arthroplasty 2'
Takuji Iwamoto (Japan), T. Suzuki, N. Matsumura, M. Nakamura, M. Matsumoto, K. Sato
- 1273 11:42 6' Study of independent extension of little finger after reconstruction of extensor tendon rupture of ring and little fingers in rheumatoid arthritis 2'
Tetsuo Masuda (Japan), T. Mizuseki, O. Suzuki
- 1115 11:50 6' Total wrist arthroplasty in rheumatoid and post traumatic wrist: long term follow-up. 2'
Sandra Pfanner (Italy), A. Poggetti, G. Munz, G. Giulia, M. Ceruso
- 654 11:58 6' Interposition arthroplasty with the Amandys pyrocarbon implant in rheumatoid wrist 2'
Victor Lestienne (France), P. Bellemere, T. Loubersac, Y. Kerjean, E. Gaisne
- 1388 12:06 6' Functional and radiographic assessment in rheumatoid patients submitted to total wrist arthroplasty – 4 years of follow up 2'
Pedro Teixeira Mota (Portugal), C. Rodrigues, A. Ribau, M. Trigueiros, C. Silva, A. Pereira
- 1941 12:14 6' Ulnar head prosthesis in rheumatoid arthritis 2'
Jane C Messina (Italy), B. Boniforti, F. Torretta
- 123 12:22 6' Ten-year follow-up results of rheumatoid wrist surgery without prosthesis. 2'
Asami Abe (Japan), H. Ishikawa

10:30–12:30 PS49 SLAC & SNAC

A8

Chair: Urs Hug (Switzerland), Martin Wells (South Africa),
Ivan Tami (Switzerland)

Q&A

- 1179 10:30 6' Scaphoidectomy with four-corner fusion using dorsal locking plates: a retrospective study with mid-term follow-up 2'
Sophie Sabau (France), A. Lionel, D. Francois, D. Gilles
- 445 10:38 6' Outcomes after scaphoid excision and midcarpal arthrodesis for SNAC and SLAC wrist arthritis 2'
Andrzej Zyluk (Poland), Z. Szlosser
- 1391 10:46 6' Partial carpal arthrodesis: preliminary results of a new technique 2'
Ali Cavit (Turkey), H. Ozcanli
- 1150 10:54 6' Midterm results of scaphoid excision and bicolunar carpal fusion using retrograde headless screws 2'
Sebastian Undurraga (Canada), K. Au, B. Gammon
- 785 11:02 6' Four-corner fusion in SLAC & SNAC wrist surgery: Does method of fixation really make a difference? 2'
Logan McGinn (Canada), R. Grewal
- 679 11:10 6' The Effect of Carpal Alignment on Post-Operative Range of Motion After Four Corner Fusion in Wrists with Type 1 Lunates 2'
Logan McGinn (Canada), R. Grewal, N. Suh

Scientific Programme – Wednesday

Wednesday, 19 June 2019

- 249 11:18 6' Outcome of Proximal Row Carpectomy in a cohort study with 12 months follow up 2'
Freek Lötters (Netherlands), T. Schreuders, H. van Not
- 102 11:26 6' Triquetral motion is limited in vivo after lunocapitate fusion. 2'
Thorsten Schrieffer (Sweden), M. Wilcke, H. Olivecrona
- 1021 11:34 6' Preliminary report for capitulate arthrodesis for SNAC wrists: radial approach and robot-assist screw insertion 2'
Yang Guo (China)
- 1394 11:42 6' Four-Corner Arthrodesis Versus Proximal Row Carpectomy For Scapholunate Advanced Collapse: A Systematic Literature Review And Meta-Analysis. 2'
Kamil Amer (United States of America), J. Thomson, I. Ahmed, M. Vosbikian
- 1047 11:50 6' Radioscapholunate (RSL) fusion for posttraumatic osteoarthritis (PTRO) or type II scapholunate advanced collapse (SLAC). Functional results for both etiologies. 2'
Guillaume Bacle (France), C. Powell, D. McCombe, A. Berger, S. Tham
- 739 11:58 6' Scaphoid Hemi-Resection and Arthrodesis of the Radio-Carpal Joint (the SHARC Procedure) for Isolated Radio-Carpal Arthritis Provides Biomechanically and Clinically Functional Outcomes 2'
William Seitz (United States of America)
- 1822 12:06 6' The Effect of Radioscapholunate Fusion with and without Distal Scaphoid and Triquetrum Excision on Capitulate Contact Pressure 2'
Ido Volk (Israel), N. Heyrani, C. Bayne, S. McNary
- 1775 12:14 6' Long-term results of treatment of radio-scaphoid arthritis and SNAC wrist by use of pyrocarbon implant (APSI) 2'
Enrico Carita (Italy), A. Donadelli, L. Cugola
- 98 12:22 6' Current Trends in Operative Treatment of Scaphotrapeziotrapezoid Osteoarthritis: A Survey among European Hand Surgeons 2'
Qiqi Yin (Netherlands), M. Berkhout, M. Ritt

10:30–11:30 **TWS15 Neoprensplints for joint contracture** M4+5

Christa Greminger (Switzerland), Monika Löffel (Switzerland)

11:30–12:30 **PT28 Better results in flexor tendon repair** M4+5

Chair: Donald Lalonde (Canada)

Q&A

- 9464 11:30 12' My best tips and tricks to get better results in flexor tendon repairs 0'
Amanda Higgins (Canada)
- 9463 11:42 12' My best tips and tricks to get better results in flexor tendon repairs 0'
Jin Bo Tang (China)
- 9508 11:54 12' Improving outcomes: hand and brain – the “cortex effect” and how to get the RIGHT tendon to move 0'
Gwendolyn van Strien (Netherlands)

Scientific Programme – Wednesday

- 9462 **12:06** 12' My best tips and tricks to get better results in flexor tendon repairs 0'
Donald Lalonde (Canada)
- 12:18** 0' Discussion 12'

10:30–11:45 **PT27 Surgical and therapeutic treatment of traumatic upper extremity amputations** M6+7

Chair: *Lisa Mensh (Israel), Dominik Simon (Germany)* Q&A

- 9457 **10:30** 14' And what now? Early rehabilitation after traumatic upper extremity amputation. 0'
Ruth Amra (Israel), Ayala Nota (Israel)
- 9458 **10:44** 14' Functional and occupational challenges in digital amputation 0'
Ricardo Banda (Chile)
- 9459 **10:58** 14' Surgical intervention and restoring function post chemical explosion injury. 0'
Franck Atlan (Israel)
- 9460 **11:12** 14' Tricks of the trade -early management of traumatic hand injuries 0'
Lisa Mensh (Israel)
- 9461 **11:26** 14' Functional Prosthetics in Amputation of the Hand / upper limb 0'
Michael Schäfer (Germany)
- 11:40** 0' Panel Discussion 5'

11:45–12:30 **PT35 Minimally invasive treatment on hand therapy** M6+7

Chair: *Raquel Cantero-Tellez (Spain)* Q&A

- 9491 **11:45** 15' A new paradigm to hand therapy “minimally invasive approach” 0'
Zaid Al-Boloushi (Kuwait)
- 9492 **12:00** 20' Dry needling as part of hand therapy in neurological patients: a clinical approach for spasticity and weakness treatment 0'
Pablo Herrero (Spain)
- 12:20** 0' Panel Discussion 10'

12:30–14:00 **Lunch Break and Industry Workshops**

Visit of Industry and ePoster Exhibition

Scientific Programme – Wednesday

13:30–18:45 **ME24 EFSHT Council Meeting 2** M6+7

13:30–18:45 **ME18 IFSHT Council Meeting** M1-3

14:00–15:00 **PS36 Arthroscopy and Distal Radius Fractures** A6-7

*Chair: Jeff Ecker (Australia), Philippe Liverneaux (France),
Joo-Yup Lee (South Korea)*

Q&A

1636 14:00 6' Prognostic Factors Affecting Clinical Outcomes of Arthroscopic Assisted Reduction and Volar Plating Through Pronator Quadratus Preservation for Intra-Articular Distal Radius Fracture 2'
J. Kim, J. Gu, J. Kim, Jae-Uk Jung (South Korea [ROK])

1182 14:08 6' Arthroscopic assisted reduction versus fluoroscopic reduction in treatment for AO type C intra-articular distal radius fracture. A review of functional and radiological outcome between two methods. 2'
Siu Cheong Jeffrey Justin Koo (Hong Kong), K. Leung, P. Ho

1227 14:16 6' "Stepwise" method of arthroscopic reduction and plate fixation of intra-articular distal radius fractures – an evolution of technique and instrumentation 2'
Nicholas Smith (Australia)

400 14:24 6' Operative Treatment of Intra-Articular Distal Radius Fractures With versus Without Arthroscopy: RADAR Trial 2'
Caroline Selles (Netherlands), M. Mulders, J. Colaris, M. van Heijl, B. Cleffken, N. Schep

1829 14:32 6' The influence of arthroscopy, arthrotomy and conventional fluoroscopy in palmar locking plate fixation of intra-articular unstable distal radius fractures – a prospective randomized trial 2'
Rohit Arora (Austria), T. Kastenberger, L. Horling, G. Schmidle, M. Gabl

1943 14:40 6' Corrective Osteotomy Arthroscopically assisted of Intra-Articular Distal Radius Malunions with out-in technique 2'
Alberto Sgarbossa (Italy)

399 14:48 6' Arthroscopic treatment of chronic wrist pain after distal radius fractures 2'
Young Keun Lee (South Korea [ROK]), Y. Jung, K. Choi

15:00–15:30 **PS111 Panel: Arthroscopy in a trauma setting – is this the future and realistic in DRF?** A6-7

*Chair: Rohit Arora (Austria), Terry L. Whipple (United States of America),
Alejandro Badia (United States of America)*

Q&A

4083 15:00 4' Statement I 0'
Jorge Orbay (United States of America)

4082 15:04 4' Statement II 0'
Francisco del Pinal (Spain)

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4084 15:08 0' Panel Discussion 22'
Alejandro Badia (United States of America), Francisco del Pinal (Spain), Alex Lluch Bergada (Spain), Jorge Orbay (United States of America)

15:30–16:00 **PS112 Panel: Ligament injuries and early motion in DRF – do we speed too much?** A6-7

Chair: Alberto Mantovani (Italy), Karl-Josef Prommersberger (Germany), Riccardo Luchetti (Italy)

Q&A

4085 15:30 4' Statement I 0'
Martin Leixnering (Austria)

4086 15:34 4' Statement II 0'
Diego Fernandez (Switzerland)

4087 15:38 0' Panel Discussion 22'
Diego Fernandez (Switzerland), Jesse B Jupiter (United States of America), Martin Leixnering (Austria), Andrew Weiland (United States of America)

14:00–16:00 **PS69 Innovation 2** A1

Chair: Filip Stockmans (Belgium), Michael Sandow (Australia), Jouni Havulinna (Finland)

Q&A

1146 14:00 6' Tip finger traumatic injury. Treatment with semi-permeable membrane 2'
Marcelo Schieber (Argentina), A. Pernoff, M. Capella, P. Tajan, A. Boianelli, A. Oviedo, A. Payalaf, F. Castillo

930 14:08 6' Reversed Dorsal Metacarpal Adipofascial Flap Resurfacing the Metacarpophalangeal Joint Capsule after Dorsal Capsulotomy in Posttraumatic Contractures 2'
Yu-Te Lin (Taiwan), C. Lee

1349 14:16 6' Opportunities of distraction osteosynthesis in eliminating post-traumatic defects of middle and distal finger phalanges 2'
Igor Obukhov (Russian Federation)

379 14:24 6' Can finger fractures be fixed with a chemical adhesive? 2'
Johanna von Kieseritzky (Sweden), M. Arner, M. Malkoch, V. Granskog

1433 14:32 6' Versatility of the hybrid dynamic minifix and its modification technique for methacarpal and phalanx fractures: review of 83 cases. 2'
Marco Yanez (Ecuador), J. Maldonado, A. De Freitas, A. Pardini JR., P. Pires Neto, M. Kuwae, A. Barbosa Chaves, J. Izurieta, B. Maranhao, J. Barriga

397 14:40 6' Severe PIP joint flexion contracture release by External Fixator – importance of post-operative management 2'
Yoshitaka Hamada (Japan), T. Toyama, E. Horii, T. Saito, Y. Minamikawa

815 14:48 6' Comparison of radiation exposure of major organs between mobile CBCT and MDCT in hand and foot 2'
Hyunkyu Yu (South Korea [ROK]), B. Kwon, H. Kang

Scientific Programme – Wednesday

- 1914 14:56** 6' Botulinum Toxin A in the treatment of Raynaud's phenomenon secondary to Systemic Sclerosis; results of an open cohort study 2'
Michelle Griffin (United Kingdom), K. Dhaliwal, B. Langridge, K. Howell, C. Denton, P. Butler
- 1819 15:04** 6' Ultrasound-guided carpal tunnel release – a new technique by using a tissue-preserving cutting device 2'
Sebastian Kluge (Switzerland), R. Litz, G. Feigl
- 1248 15:12** 6' Negative pressure suction treatment(NPST) of closeable wound using disposable 50cc syringe 2'
Gi Jun Lee (South Korea [ROK])
- 876 15:20** 6' Preliminary results of lunate pirocarbon prosthesis – Multicentric Study 2'
Enrico Carita (Italy), A. Donadelli, A. Sgarbossa, M. Corain, L. Cugola
- 1017 15:28** 6' Surgical management of complex hand's contractures with blended use of mini-invasive procedures and wide awake surgery: case series 2'
Antonia Russomando (Italy)
- 1330 15:36** 6' Teno-arthrolysis is more Effective than Splinting in the Management of the Stiff Proximal Interphalangeal Joint – A Systematic Review 2'
Parviz Sorooshian (United Kingdom), C. Stewart, T. Smith, C. Hing, S. Cerovac
- 1057 15:44** 6' Treatment for PIP joint flexion contracture in stenosing tendovaginitis using resection of the flexor digitorum superficialis. 2'
Jiro Namba (Japan), M. Okamoto
- 1947 15:52** 6' The use of Carboxymethylcellulose to prevent adhesences after WALANT flexor tendons repair 2'
Andrea Monticelli (Italy), D. Faccio, R. Sonda, C. Tiengo, F. Bassetto

14:00–16:00 **PS84 Fractures and Dislocations Hand 3** A2

Chair: Manuel Mendez (Chile), Jun Tan (China), Armin Heiman (Estonia)

- 4094 14:00** 12' Fractures and dislocations of the base of the first metacarpal 0'
Gero Meyer zu Reckendorf (France)
- 4115 14:12** 12' Challenging fractures and dislocations of the hand 0'
Warren Hammert (United States of America)
- 501 14:24** 6' Treatment of Fracture -dislocation of hamate -metacarpal articulation with across -joint internal fixation using bridging plate technique 2'
Zhongzhe Li (China)
- 751 14:32** 6' Augmented Mini External Fixation Provides Biomechanically Stable Support of Ulnar Sided CMC Fracture Dislocation 2'
Reiji Nishimura (Japan), W. Seitz, L. Wright
- 447 14:40** 6' Outcome of partial excision arthroplasty of fifth carpometacarpal joint 2'
Michelle Spiteri (United Kingdom)

Scientific Programme – Wednesday

- 1167 14:48 6' Chronic dislocation/instability of the base of the fifth metacarpal – multiligamentary reconstruction technique 2'
Diego Fernando Rincon (Colombia), J. Cadena, P. Rincon, J. Clifton, A. Kafury, J. Castaneda Lopez
- 772 14:56 6' Palmar oblique ligamentodesis for articular rescue in Bennet's fractures (P.O.L.A.R Technique) 2'
Carlos Torres (Colombia)
- 902 15:04 6' Treatment of Bennett Fractures with Tension Band Wiring Technique through a Small Incision in 32 Patients 2'
Yadong Yu (China), X. Zhang, G. Zhang, X. Shao
- 1642 15:12 6' Long-term Patient Reported Functional Outcomes following Bennett's Fracture Repair 2'
Ben Langridge (United Kingdom), M. Griffin, M. Akhavani, P. Butler
- 1585 15:20 6' Fifth Metacarpal Neck Fractures in the United States: Trends in Current Management 2'
Aaron Rubinstein (United States of America), J. Chen, M. Vosbikian, I. Ahmed
- 1733 15:28 6' A comparison of functional outcomes of conservatively and surgically treated metacarpal neck fractures with angulation greater than 50 degrees 2'
Patricia Martin Playa (Singapore), S. Sebastin, A. Ajith
- 675 15:36 6' Headless screws versus Bouquet in intramedullary fixation in unstable neck metacarpal Fractures in active patients: A Randomized Study 2'
Marcio Aurelio Aita (Brazil), R. Kaempf, G. Ruggiero, B. Biondi, C. Eduardo Saenz, P. Delgado Serrano
- 1876 15:44 6' A prospective randomized trial comparing clinical outcomes of treatment with buddy taping of 4th and 5th metacarpal vs closed reduction and cast immobilization in fifth metacarpal neck fractures with less than 70° of volar angulation. 2'
Natalia Martinez Catalan (Spain), S. Pajares Cabanillas, E. Calvo Crespo
- 1887 15:52 6' Stuntspecific traumata of the hand and wrist at professional stuntwomen and stuntmen 2'
Arne Tenbrock (Germany), M. Lautenbach

14:00–16:00 PS127 Nerve Compressive Neuropathy A3

Chair: Amy Ladd (United States of America), Rahimtoola Zulfi (United Kingdom), Aurelio Portincasa (Italy)

Q&A

- 1071 14:00 6' Correlation of Tinel sign and site of ulnar nerve compression in cubital tunnel syndrome 2'
Michelle Spiteri (United Kingdom), C. Little
- 26 14:08 6' Functional outcome after endoscopic assisted release of the ulnar nerve for cubital tunnel syndrome: mid-to-long term results 2'
Christian Spies (Germany), M. Schäfer, M. Langer, T. Bruckner, L. Müller, F. Unglaub

Scientific Programme – Wednesday

Wednesday, 19 June 2019

- 528 14:16 6' The key clinical symptoms that differentiates cervical radiculopathy from cubital tunnel syndrome 2'
Takashi Ogawa (Japan), T. Omura, T. Hasegawa, Y. Matsuyama
- 426 14:24 6' Age, pathogenesis and the period from onset to surgery significantly affects the severity of cubital tunnel syndrome 2'
Takao Omura (Japan), T. Ogawa, K. Sugiura, R. Okabayashi, M. Miyagi, T. Sawada, H. Ogihara, Y. Matsuyama
- 1437 14:32 6' Longterm outcome after Ulnar Tunnel Release 2'
Ritsaart Westenberg (United States of America), N. Chen, D. van Hooven
- 762 14:40 6' Smoking is associated with ulnar nerve entrapment: a birth cohort study 2'
Sina Hulkkonen (Finland), J. Auvinen, J. Miettunen, J. Karppinen, J. Ryhänen
- 526 14:48 6' Intra-operative Subluxation of the Ulnar Nerve: Use of a Triceps Sling Reconstruction to Avoid Transposition 2'
Loukia Papatheodorou (United States of America), D. Sotereanos
- 749 14:56 6' Acute Compression of the Median Nerve at the Elbow by the Lacertus Fibrosus: Biomechanical Translation from Partial Rupture of the Biceps at the Myotendinous Junction. 2'
William Seitz (United States of America)
- 1446 15:04 6' Diagnosis and treatment of median nerve entrapment at the elbow by isolated section of the lacertus fibrosus 2'
Abdelkrim Hamouya (France), G. Meyer zu Reckendorf, J. Roux
- 1802 15:12 6' Wide Awake and ultrasound guided release of the lacertus fibrosis for chronic exertional compartment syndrome of the forearm. 2'
A prospective study.
Gilles Candelier (France), Y. Favennec, T. Aparé
- 127 15:20 6' Wartenberg's Syndrome: Case Series 2'
Paul Jarrett (Australia)
- 117 15:28 6' Efficacy of endoscopic neurolysis for the motor (recurrent) branch of the median nerve during endoscopic carpal tunnel release surgery using the USE system 2'
Aya Yoshida (Japan), I. Okutsu, I. Hamanaka
- 827 15:36 6' The impact of illness perceptions, psychological distress and pain catastrophizing on self-reported symptom severity and functional status in patients with carpal tunnel syndrome 2'
Pepijn Sun (Netherlands), R. Selles, H. Slijper, E. Walbeehm
- 470 15:44 6' Multidisciplinary neuropathic pain management improves differential diagnosis considering thoracic outlet syndrome 2'
Jörg Bahm (Germany)
- 788 15:52 6' The Role of Neurolysis for Hourglass Constrictions in Chronic Parsonage-Turner Syndrome 2'
Scott Wolfe (United States of America), K. Krishnan, D. Sneag, J. Feinberg, O. Nwawka, S. Lee

Scientific Programme – Wednesday

14:00–15:30 **ME13 DAHTH General Assembly** A4

14:00–16:00 **PS64 Infection** A5

Chair: Khalid Alawadi (United Arab Emirates), Klaus-Dieter Rudolf (Germany), Lee Osterman (United States of America)

Q&A

- 4054 **14:00** 16' The Hand Surgeon between antibiotics, debridement or washing techniques 0'
Duncan Angus McGrouther (Singapore)
- 1968 **14:16** 6' Cat Bite: an underrated injury 2'
Amin Kheiran (United Kingdom), V. Palial, C. Wildin, R. Rollett, U. Chatterji, H. Singh
- 747 **14:24** 6' Tetanus Quick Stik – is the NHS missing a trick? 2'
Ted Welman (United Kingdom), N. Carroll, A. McKean, S. Rahman, L. Moore, M. Horwitz
- 22 **14:32** 6' Characterizing Hand Infections in an Underserved Population: The Role of Diabetic Status in Antibiotic Choice and Infection Location 2'
Steven Koehler (United States of America), A. Hayden, N. Shah, G. Penny, S. Stroud, E. Kuehn, B. Diebo
- 1168 **14:40** 6' Non-Tuberculous Mycobacterial tenosynovitis of the hand 2'
Dong Hee Kim (South Korea [ROK]), J. Park, S. Lee, S. Yaung
- 1618 **14:48** 6' Impact of delayed presentation of patients with hand infections to hand surgeons: A retrospective study with 379 patients 2'
Khaled Dastagir (Germany), P. Vogt, S. Könneker
- 1282 **14:56** 6' A review of 1000 upper limb infections and their management in a tertiary hand unit 2'
Martin Van (United Kingdom), K. Dickson, T. Challoner, D. Mortiboy, M. Foster
- 666 **15:04** 6' Infection rates following carpal tunnel decompression in the community. Experience from the U.K. 2'
Vishal Palial (United Kingdom), S. Siddiqui, A. Kheiran
- 403 **15:12** 6' Treatment of Pyogenic Arthritis with Drainage Sinus in Digits 2'
Sang Ho Kwak (South Korea [ROK]), J. Bae
- 1065 **15:20** 6' Functional Outcome for Arthroscopic Treatment of Septic Arthritis of the Wrist 2'
Jeannette Wen Ching Ting (Hong Kong), Esther Man-Wai Chow (Hong Kong), J. Lau, L. Liyeung, M. Mak, W. Tse, P. Ho
- 677 **15:28** 6' Comparative study of the use of antibiotic therapy and antibiotic prophylaxis in the treatment of Swanson Type I open fractures of the hand. 2'
Paulo Randal Pires (Brazil), M. Rodrigues Costa, P. Randal Pires, L. A. de Figueiredo
- 1559 **15:36** 6' Microsurgical Approach to the Management of Chronic Osteomyelitis 2'
Linjun Tang (China), T. Cui, H. Zheng, S. Zhou, H. Zhang, X. Li, L. He, Y. Liu

Scientific Programme – Wednesday

- 173 15:44 6' A free vascularized tibia graft for the infectious bony defect of upper limb 2'
Gaofeng Liang (China), Y. Teng, Y. Guo, J. Dong, Z. Jia, X. Quan
- 4230 15:52 6' Clenched fist bite – surgical treatment using the principle of delayed 2'
emergency
Teodor Stamate (Romania)

14:00–15:00 PS50 SLAC & SNAC and Arthroscopy A8

Chair: Jane C Messina (Italy), Henk Coert (Netherlands)

Q&A

- 1632 14:00 6' Quantitative Analysis of Surface Contouring with bipolar Radiofrequency on 2'
chondromalacic cartilage
Michaela Huber (Germany)
- 1951 14:08 6' Arthroscopic pre-operative planning in wrist osteo-arthritis 2'
Jane C Messina (Italy), R. Luchetti, E. Carita
- 1365 14:16 6' Arthroscopic Staging and Treatment of Stage III Scaphoid Instability with and 2'
without Carpal Chondromalacia
Houshang Seradge (United States of America), W. Parker PA, C. Baer, C. Steppe, A. McKenzie, M. O'Dell
- 574 14:24 6' Arthroscopic Resection Arthroplasty for Scapholunate Advanced Collapse 2'
Wrists
Jessica Cobb (United States of America), T. Cobb, A. Cobb
- 243 14:32 6' The Learning Curve in Arthroscopic Scaphoid Resection and Midcarpal 2'
Arthrodesis
Markus Pääkkönen (Finland), A. Vihanto, T. Kotkansalo
- 1910 14:40 6' Arthroscopy Assisted Partial Wrist Fusion without using Bone Graft 2'
Abhijeet Wahegaonkar (India), S. Mane, C. Karande Patil, A. Bansode
- 1002 14:48 6' Arthroscopic Lunocapitate Fusion with Scaphoid Excision for Treatment of 2'
SLAC or SNAC wrists
Yun-Rak Choi (South Korea [ROK]), W. Oh, H. Kang, I. Koh, S. Lee, J. Hong, J. Oh
- 1008 14:56 6' Arthroscopic Scaphoid Excision and 4-corner Fusion of Scaphoid Nonunion 2'
Advanced Collapse or Scapho-lunate Advanced Collapse Wrist
Jae Woo Shim (South Korea [ROK]), M. Park, H. Lee, J. Kim, Y. Chae, H. Park

15:00–16:00 PS144 Panel: SLAC&SNAC and Arthroscopy – This is my standard Operation in SLAC-SNAC A8

Chair: Rupert Eckersley (United Kingdom), Petrus Van Hoonacker (Belgium), Michel Levadoux (France)

Q&A

- 4172 15:00 8' Four Corner Fusion 0'
Thomas Pillukat (Germany)
- 4174 15:08 8' Arthroscopic Four Corner fusion 0'
Eva-Maria Baur (Germany)

Scientific Programme – Wednesday

4173	15:16	8'	Proximal Row Carpectomy <i>Steven Moran (United States of America)</i>	0'
4171	15:24	8'	Arthroplasty <i>Ole Reigstad (Norway)</i>	0'
4170	15:32	8'	Arthroscopic Resection Arthroplasty <i>Margareta Arianni (Indonesia)</i>	0'
	15:40	0'	Panel Discussion	16'

15:30–17:30 **TWS18 Improve your knowledge of splinting the athletes hand** M4+5

Björn Le Roy (Belgium)

16:00–16:45 **HS13 Presidential Guest Lecture** A6-7

Chair: Maurizio Calcagni (Switzerland), Max Haerle (Germany)

Q&A

4228	16:00	45'	Critical issues for a World we want: What do we know? What shall we do? What may we hope? <i>Klaus Leisinger (Switzerland)</i>	0'
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16:45–18:45 **ME14 DGH General Assembly** A2

16:45–18:45 **ME12 FESSH Delegates Assembly** A3

16:45–18:45 **ME11 IFSSH Delegates Council Meeting** A4

Scientific Programme – Thursday, 20 June 2019

	A6-7	A1	A2	A3	A4	A5	
7:00	EWAS Arthroscopy	Microsurgery	Spastic and Tetraplegic	Young Surgeons		Assessment	
7:30							
8:00	EWAS Arthroscopy	Microsurgery	Spastic and Tetraplegic	Tendon		Assessment	
8:30							
9:00							
9:30							
10:00	Coffee Break – Visit of Industry and ePoster Exhibition						
10:30	EWAS Arthroscopy	Microsurgery	Spastic and Tetraplegic	Tendon		OA PIP	
11:00							
11:30							
12:00							
12:30	Lunch Break and Industry Workshops – Visit of Industry and ePoster Exhibition						
13:00							
13:30							
14:00	EWAS Arthroscopy	Microsurgery	Biomechanics	Tendon		OA CMC	
14:30							
15:00							
15:30							
16:00	Coffee Break – Visit of Industry and ePoster Exhibition						
16:30	EWAS Arthroscopy	Microsurgery	Biomechanics	Experimental Tendon		Avascular Necrosis	
17:00							
17:30							
18:00							
18:30							
19:00							
19:30	Congress Dinner & Party (Ritz Carlton)						

Scientific Programme – Thursday, 20 June 2019

	A8	M1-3	M4-5	M6-7	M8	
	OA CMC					7:00
						7:30
	OA CMC	Hand Therapy 2019: Is less more?	Neurodynamics		Splinting of Swan Neck Deformity	8:00
						8:30
				Hand and Wrist Injuries in Elite Sport		9:00
						9:30
Coffee Break – Visit of Industry and ePoster Exhibition						10:00
	OA CMC	Management of Wrist Injuries	Free Paper Session II	Skin Traction EAVAST		10:30
						11:00
						11:30
						12:00
Lunch Break and Industry Workshops – Visit of Industry and ePoster Exhibition						12:30
Silent Auction in the Exhibition Area						13:00
						13:30
	Combined IFSSH IFSHT Assessment	Combined IFSSH IFSHT Assessment, Room A8				14:00
						14:30
						15:00
						15:30
Coffee Break – Visit of Industry and ePoster Exhibition						16:00
	OA CMC	Anatomy	Innovation in Brachial Plexus	Neuropathies and Nerve Injuries	Free Paper Session III	16:30
						17:00
					Rheumatoid Arthritis	17:30
						18:00
						18:30
						19:00
Congress Dinner & Party (Ritz Carlton)						19:30

Please find the detailed Congress Programme in the App



or as PDF-file on the website



Scientific Programme – Thursday

07:00–07:55 PS51 EWAS Arthroscopy TFCC 1

A6-7

Chair: *Riccardo Luchetti (Italy), Elisabet Hagert (Sweden), Kai Megerle (Germany)*

Q&A

- 831 07:00 6' Changes in the morphology of the triangular fibrocartilage complex (TFCC) on magnetic resonance arthrography related to disruption of ulnar foveal attachment 2'
In Cheul Choi (South Korea [ROK]), Y. Kwon, J. Park, J. Park
- 141 07:08 6' Prognostic factors for simultaneous arthroscopic repair of deep and superficial TFCC portion for Atzei class 2 tear: prospective one-year follow-up study 2'
Takeshi Egi (Japan), M. Shigi
- 1906 07:16 6' Concealed TFCC Tears Revealed- Role of Wrist Arthroscopy in the Diagnosis & Treatment of Occult Chronic TFCC Injury 2'
Abhijeet Wahegaonkar (India), C. Karande Patil, A. Bansode, S. Mane
- 1786 07:24 6' Evaluation and management of TFCC injuries 2'
Andres Almonacid (Chile), R. Jorquera, P. Orellana, F. Melibosky, P. Cobb, A. Villavicencio
- 385 07:32 3' Ulnotriquetral Split Tear Repair: Is It Myth or Fact? 1'
Sanjeev Kakar (United States of America), R. Berger, N. Clark, N. Munaretto
- 1754 07:36 3' All-through 6R single portal repair of superficial TFCC tear 1'
Mostafa Mahmoud (Egypt)
- 1852 07:40 3' Immobilization after a TFCC operation 1'
Hartmut Semsch (Germany), M. Haerle, R. Rath, S. Pop
- 1548 07:44 3' Should we repair TFCC in distal radius fracture 1'
Margaret Fok (Hong Kong), C. Fang, T. Lau, Y. Fung, Y. Fung, F. Leung
- 1380 07:48 3' Arthroscopic assisted treatment of distal radius fractures combined with TFCC injuries 1'
Huawei Yin (China), W. Xu

07:55–09:05 PS52 EWAS Arthroscopy TFCC 2

A6-7

Chair: *Oscar Jiang Su (China), Andrea Atzei (Italy), Gustavo Mantovani (Brazil)*

Q&A

- 27 07:55 6' Functionality After Arthroscopic Debridement of Central Triangular Fibrocartilage Tears With Central Perforations 2'
Christian Spies (Germany), M. Möldner, P. Hahn, L. Müller, T. Bruckner, F. Unglaub
- 587 08:03 6' Complications and Reoperations After Triangular Fibrocartilage Complex (TFCC) Debridement 2'
Svenna Verhiel (United States of America), M. Ritt, N. Chen

Scientific Programme – Thursday

- 558 08:11 6' The Ulnar Plus Variance Does Not Adversely Affect the Outcomes of Arthroscopic Repair for Triangular Fibrocartilage 1b Tear 2'
Bong Cheol Kwon (South Korea [ROK]), J. Hwang
- 1749 08:19 6' Triangular fibrocartilage complex repair in pediatric patients 2'
Kevin Little (United States of America), K. Eckstein, A. Balboa
- 1660 08:27 6' All-Inside Arthroscopic Dermal Allograft Reconstruction of Massive TFCC Tears 2'
Felix Riano (United States of America), C. Adams
- 1769 08:35 6' Arthroscopic Anatomic Allinside (3A) reconstruction of the TFCC 2'
Andrea Atzei (Italy), R. Luchetti, F. Riano, T. Aust, F. Tandioy
- 1737 08:43 6' Arthroscopic assisted tendon reconstruction for TFCC irreparable tears 2'
Riccardo Luchetti (Italy), A. Atzei, R. Cozzolino
- 1475 08:51 6' Mid- and Longterm Results after Transosseous TFCC Refixation 2'
Gerhild Thalhammer (Austria), T. Haider, M. Lauffer, H. Tünnerhoff
- 176 08:59 6' TFCC Repair: Long-term follow-up after arthroscopic transosseous refixation 2'
Julian Dorn (Germany), R. Kemper, E. Baur

09:05–10:00 PS110 Panel: Do we all agree on diagnostics and repair technique of TFCC lesion?

A6-7

Chair: *Eva-Maria Baur (Germany), Jan-Ragnar Haugstvedt (Norway), Toshiyasu Nakamura (Japan)*

Q&A

- 1832 09:05 6' The Arthroscopic Hook Test is Not Pathognomonic for a Foveal Tear of the Triangular Fibrocartilage 0'
Jeff Ecker (Australia)
- 1973 09:11 6' Arthroscopic diagnosis of TFCC peripheral tears using "Trampoline Test" and "Hook test" 0'
Andrea Atzei (Italy), R. Luchetti
- 620 09:17 6' New Arthroscopic Classification of TFCC injuries 0'
Toshiyasu Nakamura (Japan), K. Abe
- 4066 09:23 32' Panel Discussion 0'
Andrea Atzei (Italy), Martin Fernando Caloia (Argentina), Jeff Ecker (Australia), Toshiyasu Nakamura (Japan), Huawei Yin (China)
- 4069 09:55 6' EWAS Grants lectures 0'
Marion Burnier (France)

07:00–08:00 PS23 Microsurgery Short Papers 1

A1

Chair: *Alexandu Georgescu (Romania), Roberto Adani (Italy), Max Mann (Germany)*

Q&A

- 976 07:00 3' repairing skin defect of the finger with the free flap which with tendon pedicled on the palmar branch of the supracarpal perforator of ulnar artery 1'
Jianwu Qi (China), X. Cai, H. Chen, W. Zhang

Scientific Programme – Thursday

- 970 07:04 3' Early internal fixation combined with free flaps for the treatment of Gustilo type IIIB forearm open fractures with soft tissue defects 1'
Yongjun Rui (China), M. Zhou
- 172 07:08 3' Repairing the donor site of the free anterolateral thigh flap. 1'
Gaofeng Liang (China), Y. Teng, Y. Guo, J. Dong, Z. Jia, X. Quan
- 968 07:12 3' Transplanting the posterior interosseous artery perforator lobulated flap to repair soft tissue defect on fingers 1'
Xin Wang (China), H. Chen, X. Cai, W. Zhang, J. Pan
- 765 07:16 3' Fascia flaps: local and pedicled alternatives 1'
Rafael Jakubietz (Germany), M. Jakubietz, K. Schmidt
- 1684 07:20 3' Use of a Distal Ulnar Artery Perforator-Based Bilobed Free Flap for Repairing Complex Digital Defects 1'
Dawei Zheng (China)
- 1399 07:24 3' Subjective and Objective Assessment of Homodigital Neurovascular Direct Flow Flaps Used in Distal Phalangeal Amputations 1'
K. Uzel, V. Celik, Yusuf Hakan Abaci (Turkey), M. Eskandari
- 619 07:28 3' Precision in the design and division of the thenar flap: Achieving a good result without donor complications or PIPJ contracture 1'
Fang Li (Singapore), J. Tan
- 1488 07:32 3' Subjective and Objective Assessment of First Dorsal Metacarpal Artery Flaps Used in Traumatic Defects of Thumb and Dorsum of the Hand 1'
K. Uzel, V. Celik, Yusuf Hakan Abaci (Turkey), M. Eskandari
- 616 07:36 3' The medial femoral condyle free flap: An excellent option for difficult cases 1'
Jorge Quintero-Perez (United States of America), R. Moreno
- 1343 07:40 3' Vascularized Bone Flaps in Upper Extremity Reconstruction: A Case Series 1'
Corinne Wee (United States of America), D. Ruter, J. Hehr, S. Schulz, G. Sisk, J. West, I. Valerio
- 965 07:44 3' The clinical application of type I venous flap of volar forearm in complicated replantation of fingers To evaluate the clinical curative effect of the type I venous flap transplantation of volar forearm for complicated digital replantation. 1'
Bin Zhu (China), J. Zhang, X. Wang, H. Chen, J. Pan, M. Li
- 843 07:48 3' Combined thenar and hypothenar hammer syndromes in a professional baseball player: a case report 1'
Shimpei Watanabe (Japan), K. Sato, T. Iwamoto, N. Matsumura, T. Suzuki, M. Nakamura, M. Matsumoto
- 467 07:52 3' First web-space commissure reconstruction with a precisely designed morphometric free flap 1'
Benjamin Smeeton (United Kingdom), D. Song, P. Georgios, Z. Chi, P. Yang, X. Zhou, Z. Li, M. Narushima, I. Koshima, Y. Zhang

08:00–09:30 PS60 Microsurgery Free Flaps

A1

Chair: Günter Germann (Germany), Roberto Adani (Italy),
Alexander Zach (Germany)

Q&A

- | | | | | |
|------|-------|----|--|----|
| 196 | 08:00 | 6' | Reconstruction of the dorsal and palm defects of hand with anterolateral thigh flaps from one donor site
<i>Guangliang Zhang (China), J. Ju, R. Hou</i> | 2' |
| 599 | 08:08 | 6' | Multi-lobed groin flaps for coverage of extensive soft tissue defects involving multiple digits and palm or dorsal hands
<i>Chao Chen (China), L. Hao, Z. Wang</i> | 2' |
| 429 | 08:16 | 6' | The distally based and free microvascular interosseous anterior flap in the treatment of hand injuries. Our experience.
<i>Elmar Fritsche (Switzerland), E. Bodmer, U. Hug</i> | 2' |
| 1329 | 08:24 | 6' | Aesthetic reconstruction of palmar soft tissue defects with medial plantar artery perforator flap
<i>Shengbo Zhou (China), W. Sun, B. Wang</i> | 2' |
| 19 | 08:32 | 6' | Upper Extremity Free Flap Transfers: An Analysis of the National Surgical Quality Improvement Program Database
<i>Steven Koehler (United States of America), G. Beyer, J. Newman, N. Shah, S. Mithani</i> | 2' |
| 600 | 08:40 | 6' | Non-Contrast Magnetic Resonance Imaging of Perforators in Preoperative Evaluation of Anterolateral Thigh Flaps
<i>Duretti Fufa (United States of America), F. Chen, A. Burge, A. Chen, A. MacMahon, D. Osei</i> | 2' |
| 964 | 08:48 | 6' | Clinical studying on the reconstruction of extremity skin defect by free iliogroin skin flap
<i>Weiwen Zhang (China), J. Qi, X. Wang</i> | 2' |
| 686 | 08:56 | 6' | Red blood cell transfusion and its association with free flap thrombosis
<i>Carlos Torres (Colombia), L. Franco</i> | 2' |
| 966 | 09:04 | 6' | Salvaging the Congestion or Stasis Compromised Free Perforator Flaps based on a new classification
<i>Jiadong Pan (China), X. Wang</i> | 2' |
| 958 | 09:12 | 6' | Reconstruction both of hand and donor foot with a variety of wrap around flaps and free perforator flaps respectively
<i>Xin Wang (China), J. Pan, Y. Huang, W. Zhang, H. Chen</i> | 2' |
| 1736 | 09:20 | 6' | Dorsal hand coverage. Aesthetic and functional outcome.
<i>Roberto Adani (Italy), G. Petrella, M. Lando, A. Leti Acciario, N. Della Rosa</i> | 2' |

Scientific Programme – Thursday

09:30–10:00 **PS147 Free “gliding” Tissue in Hand Surgery – why and how – Face to face** A1

Chair: Michele Riccio (Italy), David Warwick (United Kingdom), S. Raja Sabapathy (India)

				Q&A
4231	09:30	10'	Introduction <i>Michele Riccio (Italy)</i>	0'
4216	09:40	8'	Invited Lecture Session Free “gliding” Tissue in Hand Surgery – why and how – Face to face	0'
4217	09:48	8'	Invited Lecture Session Free “gliding” Tissue in Hand Surgery – why and how – Face to face <i>NN</i>	0'
4218	09:56	8'	Invited Lecture Session Free “gliding” Tissue in Hand Surgery – why and how – Face to face <i>Xin Wang (China)</i>	0'
	10:04	0'	Discussion	5'

07:00–08:00 **PS61 Spastic Hand 1** A2

Chair: Josephine Wing-Yuk Ip (Hong Kong), Turker Özkan (Turkey), Eva Ponten (Sweden)

				Q&A
576	07:00	6'	Biomechanical Analysis of the Tendon with Z-lengthening (TWZL) Construct: An Alternative Reconstructive Technique <i>Jeffrey Greenberg (United States of America), W. Weller</i>	2'
1294	07:08	6'	The lumbrical plus disease: a review of our experience <i>Antonia Russomando (Italy), A. Landi</i>	2'
1326	07:16	6'	The reserve option for the thumb abduction <i>Dmitry Nakonechny (Russian Federation), A. Kochish, A. Kiseleva, E. Veber, M. Sudyakova</i>	2'
1295	07:24	6'	Analysis of Large Cohort of Spastic Arm Paralysis Patients after Contralateral Seventh Cervical Nerve Transfer: A Retrospective Study <i>Wendong Xu (China), Y. Gu</i>	2'
290	07:32	6'	Functional reinnervation of the lower limb after contralateral lumbar to sacral nerve transfer for hemiplegic patients <i>Yan-Qun Qiu (China), M. Du, B. Yu, W. Xu</i>	2'
497	07:40	6'	Tendon transfer surgery after contralateral C7 nerve transfer to reconstruct the finger extension function in spastic arm paralysis patients after central neurological injury <i>Juntao Feng (China), G. Lei, Y. Shen, W. Xu</i>	2'
291	07:48	6'	Results of finger extension reconstruction in hemiplegic patients after stroke by transferring the flexor carpi radialis branch to the posterior interosseous nerve <i>Yan-Qun Qiu (China), Y. Shen, G. Wang, W. Xu</i>	2'

Scientific Programme – Thursday

1300 07:56 6' Spasticity surgery/What we learned in three years of practicing it. 2'
Constantinos Kritiotis (United Kingdom), A. Mishra

08:00–09:00 PS62 Spastic Hand 2 A2

Chair: Wendong Xu (China), Ulrike Schnick (Germany),
Jeffrey Greenberg (United States of America)

Q&A

1413 08:00 6' Hyperselective neurectomy (HSN) in the treatment of the spastic upper limb: 2'
a prospective study
Caroline Leclercq (France), A. Perruisseau-Carrier, M. Gras

1536 08:08 6' Botulinum toxin injection as a prediction of surgical outcomes in cerebral 2'
palsy patients with upper limb deformities
Josephine Wing-Yuk Ip (Hong Kong)

288 08:16 6' Spasticity-reducing hand surgery for patients with upper motor neuron 2'
injuries: a prospective study of 30 patients with a one-year follow-up
Joakim Stromberg (Sweden), U. Bergfeldt, T. Ramström, K. Kulbacka Ortiz,
C. Reinholdt

1320 08:24 6' Wrist Arthrodesis in Patients with Cerebral Palsy 2'
Brett Monson (United States of America), M. Dingle, D. Ipsen, J. Jex

984 08:32 6' Patient and Carer Satisfaction Post Wrist Arthrodesis in Cerebral Palsy 2'
Caitlin Bodian (New Zealand), T. Bidwell, A. Irving

694 08:40 6' Upper Limb Surgery for Non-Communicative Patients with Severe Spasticity: 2'
The Role of The Carer Burden Score
Claudia Gschwind (Australia), J. Yeomans

1302 08:48 6' Stroke-Hand Surgery Service: the development of an outpatient care 2'
pathway
Hai Fon Lim (Singapore), P. Tong, M. Ang, C. Tham, J. Angon, J. Sim,
V. Rajaratnam

09:00–10:00 PS63 Panel: Joints and Spasticity – which to fuse or not A2

Chair: Richarda Böttcher (Germany), Claudia Gschwind (Australia), Caroline Leclercq
(France)

Q&A

4144 09:00 8' Joints in Cerebral palsy in childhood 0'
Eva Ponten (Sweden)

4145 09:08 8' Joint deformities and treatment in traumatic spasticity 0'
Caroline Leclercq (France)

4146 09:16 8' Spastic in the Elderly 0'
Claudia Gschwind (Australia)

4147 09:24 0' Round Table „Joints and Spasticity – which to fuse or not” 30'
Richarda Böttcher (Germany), Claudia Gschwind (Australia),
Josephine Wing-Yuk Ip (Hong Kong), Caroline Leclercq (France),
Eva Ponten (Sweden), Wendong Xu (China)

Scientific Programme – Thursday

07:00–08:00 **PS78 Young Surgeons – Training in Hand Surgery** **A3**

Chair: *Inga Besmens (Switzerland), Adrian Obladen (Germany), Jin Bo Tang (China)*

Q&A

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|------|-------|----|--|-----|
| 4159 | 07:00 | 8' | Training in Handsurgery in USA
<i>Scott Lawrence Levin (United States of America)</i> | 0' |
| 4175 | 07:08 | 8' | Training in Handsurgery in Portugal
<i>Elisabete Ribeiro (Portugal)</i> | 0' |
| 4160 | 07:16 | 8' | Training in Handsurgery in Switzerland
<i>Inga Besmens (Switzerland)</i> | 0' |
| 4162 | 07:24 | 8' | Training in Handsurgery in Germany
<i>Adrian Obladen (Germany)</i> | 0' |
| 4163 | 07:32 | 8' | How to choose a fellowship
<i>Chye Yew Ng (United Kingdom)</i> | 0' |
| 4161 | 07:40 | 0' | Discussion: Is an international Training and Fellowship Platform needed? | 28' |

08:00–09:00 **PS75 Tendon Short Papers** **A3**

Chair: *Florian Lampert (Germany), Ashraf Moharram (Egypt), Alberto Sgarbossa (Italy)*

Q&A

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|------|-------|----|---|----|
| 1117 | 08:00 | 3' | Differential Effectiveness for Trigger Thumb and Finger Injections
<i>Lauren Wessel (United States of America), E. O'Donnell, A. Chen, J. Stepan, D. Osei</i> | 1' |
| 485 | 08:04 | 3' | The relationship between positional contracture of proximal interphalangeal joint on trigger finger and metabolic syndrome
<i>Kazuya Odake (Japan), M. Tsujii, A. Sudo</i> | 1' |
| 394 | 08:08 | 3' | Trigger finger secondary to a neglected flexor tendon rupture
<i>Young Keun Lee (South Korea [ROK]), Y. Jung, K. Choi</i> | 1' |
| 1147 | 08:12 | 3' | Failure of Percutaneous A1 pulley release in Trigger Digits
<i>Neunghan Jeon (South Korea [ROK]), M. Park, J. Shim, H. Kim</i> | 1' |
| 1165 | 08:16 | 3' | Outcomes of release of the entire A4 and partial A2 pulleys for distal zone 2 primary flexor tendon repair in 27 fingers
<i>Xiang Zhou (China), J. Qin, J. Chen</i> | 1' |
| 1529 | 08:20 | 3' | Cost Analysis of Trigger Finger Release Performed in Clinic versus in the Operating Room
<i>Sonu Jain (United States of America), T. France</i> | 1' |
| 1664 | 08:24 | 3' | Outcomes of Endoscopic release for Patients with de Quervain's Tenosynovitis: Retrospective Review of 181 cases
<i>Jin-Chul Oh (South Korea [ROK]), W. Oh, H. Kang, I. Koh, J. Hong, Y. Choi</i> | 1' |
| 1091 | 08:28 | 3' | Does A1 Pulley Release for Trigger Finger Have an Effect on Grip and Pinch Strengths?
<i>Kadir Uzel (Turkey), V. Celik, A. Arik, C. Bas, M. Eskandari</i> | 1' |

Scientific Programme – Thursday

745	08:32	3'	Trigger finger in ocean rowing – a hindrance to performance <i>Ted Welman (United Kingdom), K. Young, P. Singh, J. Larkin, M. Horwitz</i>	1'
1045	08:36	3'	Injection into both compartments is more effective than an extensor pollicis brevis compartment alone in de Quervain disease? <i>Hyoung Seok Jung (South Korea [ROK]), J. Lee</i>	1'
1073	08:40	3'	Mallet Finger Splinting – No Skin Irritation, No PIP Stiffness <i>Egemen Ayhan (Turkey), Y. Kuzucu, E. Aslaner, Z. Tuna</i>	1'
310	08:44	3'	clinical trial of comparing the effects of active and passive rehabilitation on flexor tendons repair outcomes in Zone 2' <i>Mohammad Javad Fatemi (Iran), T. Bagheri, R. Sobhani, L. Mirzaei</i>	1'
362	08:48	3'	Shorter Rehabilitation after Extensor Pollicis Longus Reconstruction Combining Modern Suture Technique and New Rehabilitation Protocol <i>Tim Cordier (Switzerland), S. Schibli</i>	1'
1177	08:52	3'	Immobilization Versus Early Active Mobilization After Surgical Repair of Injured Extensor Tendon of Hand and Forearm. <i>Krishna Priya Das (Bangladesh)</i>	1'
1136	08:56	3'	Camper's chiasm: anatomical study and clinical implications in flexor tendons surgery <i>Cesare Tiengo (Italy), D. Faccio, S. Montanari, N. Maschio, F. Bassetto</i>	1'

09:00–09:30 **PS76 Panel: Extensor Tendons – not so easy – not for Beginners! The most underrated Injuries!** **A3**

Chair: *Martin Franz Langer (Germany), Duncan Angus McGrouther (Singapore), Jin Bo Tang (China)*

Q&A

1325	09:00	6'	Comparison of the efficiency between the extrinsic and intrinsic extensor muscles for extension of the proximal interphalangeal joint of the finger <i>Sung-Jae Kim (South Korea [ROK]), K. Lee, J. Kim, C. Lee, W. Choi</i>	0'
4137	09:06	6'	Biomechanics of extensor Tendons <i>Piotr Czarnecki (Poland)</i>	0'
4148	09:12	6'	How to prevent bad Results Extensor Tendon Surgery and how to correct them? <i>Nazim Karalezli (Turkey)</i>	0'
	09:18	0'	Panel Discussion	6'

09:20–10:00 **PS145 Panel: Flexor Tendon Treatment: very careful, tissue-friendly and smooth – or – stable, bulky and relentless movement?** **A3**

Chair: *Martin Franz Langer (Germany), Duncan Angus McGrouther (Singapore), Jin Bo Tang (China)*

Q&A

715	09:25	6'	Modified Brunelli technique for flexor tendons repair in zone II <i>Alexandu Georgescu (Romania), i. ileana matei, I. Irina Capota, O. Olariu</i>	0'
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Scientific Programme – Thursday

4149	09:31	6'	Respect to fine Structures in Tendon Surgery? <i>Jörg Grünert (Switzerland)</i>	0'
4164	09:37	6'	Placement of Sutures for a perfect Tendon Repair <i>Thomas Giesen (Switzerland)</i>	0'
4208	09:43	6'	Relentness Movement of Flexor Tendons, strong, bulky, active Movement <i>Jin Bo Tang (China)</i>	0'
4209	09:49	6'	Venting or Resection of Pulleys – how much and what is too much? – bowstringing <i>Istvan Zoltan Rigo (Norway)</i>	0'
	09:55	0'	Panel Discussion	5'

07:00–08:00 **PS70 Assessment 1** **A5**

Chair: Jörg Grünert (Switzerland), Grey Giddins (United Kingdom), Lorena Parra (Chile)

Q&A

1384	07:00	6'	Examining the Accuracy of the Hand Examination <i>Kathryn Dickson (United Kingdom), D. Chester</i>	2'
168	07:08	6'	Cross-Sectional International Multicenter Study on Quality of Life and Reasons for Abandonment of Upper Limb Prostheses <i>Michiro Yamamoto (Japan), H. Hirata, J. Oba, H. Tanaka, T. Chin, T. Nakamura, K. Chung</i>	2'
407	07:16	6'	The Patient Specific Functional Scale in Dupuytren's disease; a more responsive outcome measure than standardized PROMS? <i>Yara van Kooij (Netherlands), R. Poelstra, J. Porsius, H. Slijper, D. Warwick, R. Selles</i>	2'
522	07:24	6'	Determining Minimal Clinically Important Differences (MCIDs) in Patient-Reported Outcome Measurement Information System (PROMIS) Physical Function (PF), Upper Extremity (UE), and Pain Interference (PI) in Carpal Tunnel Release <i>Warren Hammert (United States of America), D. Bernstein, J. Houck, B. Mahmood</i>	2'
524	07:32	6'	Comparing the Responsiveness and Validity of the Patient-Reported Outcome Measurement Information System (PROMIS) domains to Region- and Condition-Specific Patient-Reported Outcome (PRO) Tools in Carpal Tunnel Release <i>Warren Hammert (United States of America), D. Bernstein, J. Houck, C. Ketonis, B. Mahmood</i>	2'
546	07:40	6'	Clinical vs. operative findings in hand trauma using our online eHands system <i>Martin Van (United Kingdom), F. Ghini, R. Mallina, R. Jose</i>	2'
588	07:48	6'	The Role of Positive Psychology in Understanding Pain Intensity and Disability Among Hand and Upper Extremity Patients <i>Svenna Verhiel (United States of America), J. Greenberg, E. Zale, N. Chen, D. Ring, A. Vranceanu</i>	2'

08:00–10:00 PS148 Assessment 2

A5

Chair: *Jonathan Hobby (United Kingdom), Leszek Romanowski (Poland),
Caroline Dereskewitz (Germany)*

Q&A

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|------|-------|----|--|----|
| 594 | 14:00 | 6' | Validity and responsiveness of strength measurements in the assessment of Distal radioulnar joint arthroplasty
<i>Peter Axelsson (Sweden), J. Kärrholm</i> | 2' |
| 724 | 14:08 | 6' | The usefulness of Disability of the Arm, Shoulder and Hand (DASH) in patients with shoulder disorders.
<i>Masatoshi Amako (Japan), M. Isaji, M. Yamada, R. Fujimaki, S. Kondo, K. Chiba</i> | 2' |
| 802 | 14:16 | 6' | Preoperative Two Point Discrimination Predicts Response to Carpal Tunnel Release
<i>Lauren Wessel (United States of America), C. Ekstein, D. Marshall, D. Fufa, D. Osei</i> | 2' |
| 1233 | 14:24 | 6' | Hiss score and modified vascular hiss score correlation with short and long-term outcomes in complex hand injuries: a retrospective preliminary study.
<i>Letizia Senesi (Italy), F. De Francesco, A. Gigante, M. Riccio</i> | 2' |
| 1261 | 14:32 | 6' | Pianists most common hand and wrist disorders as effect of forearm muscle overload
<i>Marta Jokiel (Poland), P. Zuchowski, P. Czarnecki, L. Romanowski</i> | 2' |
| 1279 | 14:40 | 6' | Price of a finger
<i>Martin Van (United Kingdom), F. Ghini, R. Mallina, R. Jose</i> | 2' |
| 1281 | 14:48 | 6' | Improving management of NORSE hand referrals by introducing one-click digital advice template: A study of 100 cases in a tertiary hand trauma unit
<i>Martin Van (United Kingdom), M. Foster</i> | 2' |
| 1403 | 14:56 | 6' | Playing-related disorders among professional violinist
<i>Maciej Bochenek (Poland), M. Jokiel, P. Czarnecki, L. Romanowski</i> | 2' |
| 1752 | 15:04 | 6' | Carpal tunnel syndrome: Recurrence Assessment SCORE (RASc)
<i>Petra Brinskelle (Austria), D. Gmainer, S. Kotschar, B. Michelitsch, L. Kamolz, D. Lumenta</i> | 2' |
| 1027 | 15:12 | 6' | A Modern Adaptation to the Ten Test for the assessment of Digital Nerves
<i>Sunil Parthiban (United Kingdom), M. Foster, D. Ghalli</i> | 2' |
| 1780 | 15:20 | 6' | The United Kingdom experience of trainee led multicentre prospective studies in hand surgery
<i>Jeremy Rodrigues (United Kingdom), Matthew Gardiner (United Kingdom), A. Jain</i> | 2' |
| 1206 | 15:28 | 6' | What PROMs measure in Dupuytren's disease: unrecognised issues unmasked by combining PROMs with the Aachen item banking protocol
<i>Jeremy Rodrigues (United Kingdom), C. Gibbons, W. Zhang, B. Scammell, P. Russell, I. Chakrabarti, S. Fullilove, D. Davidson, T. Davis</i> | 2' |

Scientific Programme – Thursday

1640 15:36 15' A Single Score as a Comprehensive Outcome Measure for the Wrist 0'
Esther Vögelin (Switzerland), R. Wollstein, S. Ewald

07:00–08:00 PS47 OA CMC & Finger Short Papers A8

Chair: *Zaf Naqui (United Kingdom), Frauke Deneken (Germany),
 Massimo Corain (Italy)*

Q&A

1869 07:00 3' Surgical Treatment of DIP Ganglion by Excision and DIP Synovectomy 1'
 without skin flap: 10 cases
Romina Lachenmeier (Switzerland), H. Segmüller

597 07:04 3' Distal interphalangeal joint arthrodesis using the ADS memory staple – 1'
 The London Experience
Arvind Mohan (United Kingdom), A. Allan, A. Fox, B. Jemec

1566 07:08 3' Costs of productivity loss after surgery for first carpometacarpal 1'
 osteoarthritis (CMC-1 OA)
*Mark van der Oest (Netherlands), J. Teunissen, R. Poelstra, R. Feitz, H. Slijper,
 J. Porsius, A. Burdorf, R. Selles*

338 07:12 3' In vivo kinematics of the thumb carpometacarpal joint during flexion and 1'
 abduction
Kaoru Tada (Japan), T. Nakajima, M. Nakada, M. Matsuta, H. Tsuchiya

1816 07:16 3' Does pre-operative depression and anxiety affect outcome after 1'
 trapeziectomy?
Flossie Carpenter (United Kingdom), T. Fleming, J. Blackburn, R. Amirfeyz

918 07:20 3' Analysis of BSSH UK Hand Registry shows no difference in outcomes 1'
 between simple trapeziumectomy and trapeziumectomy plus LRTI
*Jennifer Lane (United Kingdom), Matthew Gardiner (United Kingdom),
 J. Rodrigues, R. Poulter, D. Furniss*

1613 07:24 3' Treatment of osteoarthritis of the carpometacarpal joint of the thumb 1'
 with trapeziectomy and tendon allograft interposition.
Nadine Hollevoet (Belgium), C. Thys, L. Vekens

1225 07:28 3' Trapeciectomy versus joint replacement in bassal thumb osteoarthritis. 1'
 Prospective study.
Pilar Aparicio (Spain), O. Izquierdo, E. Domínguez, J. Torres, J. Castellanos

1319 07:32 3' The Results of Surgical Treatment for Osteoarthritis of the Thumb 1'
 Trapeziometacarpal Joint: The Correlation With Trapezial Space Height
Hirofumi Imai (Japan), M. Takahara, D. Ota, M. Kondo

1772 07:36 3' May be the arthroplasty with spacer the best solution of CMC arthrosis in 1'
 under seventy patients.
Gaetano Carriere (Italy)

1270 07:40 3' Early result of Pyrodisc interposition arthroplasty for advanced thumb CMC 1'
 joint osteoarthritis
Yang-Guk Chung (South Korea [ROK]), S. Shin, Y. Lee

Scientific Programme – Thursday

- 959 07:44 3' Short to mid-term result of Pyrocarbon implant in the TMC 1 joint for osteoarthritis 1'
Allan Ibsen-Sörensen (Sweden), A. Nilsson
- 909 07:52 3' Pyrocarbon Interposition with PyroDisk Implant for Trapeziometacarpal Osteoarthritis: A Ten-Year Follow-Up study 1'
Alexandre Petit (France), G. Raimbeau, B. Cesari, R. Gibaud, N. Bigorre, F. Rabarin, Y. Saint-Cast
- 463 07:56 3' Annual trends in surgery for osteoarthritis of carpometacarpal joint of the thumb: Analysis of a national database in Japan 1'
Kosuke Uehara (Japan), Y. Morizaki, T. Ohe, N. Michihata, H. Yasunaga, S. Tanaka
- 596 08:00 3' Effective Period of Conservative Treatments in Patients with Acute Calcific Periarthritis of the Hand 1'
Kee Jeong Bae (South Korea [ROK]), J. Kim, D. Lee, Y. Lee, Y. Kim, Y. Chae, C. Lee, Q. Li, H. Gong, G. Baek

08:00–10:00 PS66 OA CMC 1 A8

Chair: *Brigitte van der Heijden (Netherlands), Martin Jung (Germany), Claudia Meuli (Switzerland)*

Q&A

- 847 08:00 6' Psychological factors are more strongly related to pain in CMC-1 osteoarthritis patients than radiographic features 2'
Lisa Hoogendam (Netherlands), M. van der Oest, H. Slijper, G. Vermeulen, R. Selles, J. Porsius
- 1839 08:08 6' Expectations and illness perceptions influence the success of non-operative treatment of first carpometacarpal osteoarthritis (CMC-1 OA) 2'
Mark van der Oest (Netherlands), L. Hoogendam, G. Vermeulen, H. Slijper, R. Selles, A. Vranceanu, J. Porsius
- 139 08:16 6' Factors associated with surgical intervention in osteoarthritis of the thumb carpometacarpal joint 2'
Ken Nishimura (Japan), K. Uehara, S. Tanaka, Y. Morizaki
- 1565 08:24 6' What is the role of psychological distress, pain catastrophizing and illness perceptions in pre-operative pain of CMC-1 patients? 2'
Mark van der Oest (Netherlands), L. Hoogendam, R. Poelstra, G. Vermeulen, H. Slijper, R. Selles, A. Vranceanu, J. Porsius
- 893 08:32 6' The effect of surgery for base of thumb osteoarthritis on range of dart thrower's motion at the wrist in cadavers. 2'
Mohamed Elajnaf (United Kingdom), P. Rust, R. Wallace
- 994 08:40 6' In Vivo Changes of Subchondral Bone and Cartilage in First Carpometacarpal Joint Osteoarthritis Across Severity Stages 2'
Michael Chu-kay Mak (Hong Kong), W. Lee, K. Cheuk, R. Lee, P. Ho
- 2009 08:48 6' Can Patterned Osteophyte Growth about the First Carpometacarpal Joint Provide Any Insight into the Etiology of Thumb Osteoarthritis? 2'
Arnold-Peter Weiss (United States of America), A. Ladd, J. Crisco

Scientific Programme – Thursday

- 1571 08:56 6' Ligament constraint of the first carpometacarpal joint 2'
Wan Mohd Radzi Rusli (United Kingdom), E. Mirza, S. Tolerton, S. Yong, R. Johnson, M. Horwitz, A. Kedgley
- 2003 09:04 6' Developing a Core Outcome Set for the Research and Treatment of Thumb Carpometacarpal Osteoarthritis: A Delphi Study 2'
Amy Ladd (United States of America), J. Crisco, D. Kenney, M. Marks, D. Moore, A. Weiss, J. Wolf, A. Hoang-Kim
- 256 09:12 6' Clinically relevant outcome thresholds to enhance indication quality in patients with thumb carpometacarpal osteoarthritis 2'
Miriam Marks (Switzerland), C. Grobet, L. Audigé, D. Herren
- 1537 09:20 6' Does Ligament Reconstruction and Tendon Interposition (LRTI) destabilise the carpus? 2'
Sten Deschuyffeleer (Belgium), L. De Smet
- 1334 09:28 6' The management of thumb base osteoarthritis – A multicentre service evaluation project 2'
Simon Parker (United Kingdom), O. Upper Limb Collaborative
- 539 09:36 6' Cost-utility analysis of surgery for trapeziometacarpal osteoarthritis 2'
Miriam Marks (Switzerland), C. Grobet, L. Audigé, K. Eichler, F. Meier, S. Wieser, D. Herren
- 163 09:44 6' Injection therapy for base of thumb osteoarthritis: a systematic review and meta-analysis 2'
Benjamin Dean (United Kingdom), M. Vella Baldacchino, N. Thurley, N. Riley, C. Little, S. Hopewell, A. Carr
- 543 09:52 6' Shorter versus longer immobilization after surgery for thumb carpometacarpal osteoarthritis: a propensity score matched study 2'
Jonathan Tsehaie (Netherlands), R. Wouters, S. Hovius, R. Feitz, H. Slijper, R. Selles

08:00–10:00 PT20 Hand Therapy 2019: Is Less More? M1-3

*Chair: Susan Michlovitz (United States of America),
 Ingela Henningsen (Germany)*

Q&A

- 9465 08:00 15' Intro: Shifting paradigms and internet based resources 0'
Susan Michlovitz (United States of America)
- 9466 08:15 15' Maximizing outcomes with self- management programs. 0'
Lynn Festa (United States of America)
- 9467 08:30 15' Strategies for achieving adherence to the therapy plan 0'
Lisa O'Brien (Australia)
- 9468 08:45 15' Challenges in education and practice: The Guatemala Experience 0'
Marta Beatriz Pineda (Guatemala)
- 9469 09:00 15' Selecting patients and measurement outcomes for self- management with guidance strategies 0'
Joy MacDermid (Canada)

Scientific Programme – Thursday

9470	09:15	15'	Factors to consider when deciding between clinic supervised therapy versus home based management <i>Christos Karagiannopoulos (United States of America)</i>	0'
	09:30	0'	Panel Discussion	30'

08:00–10:00 **PT31 Neurodynamics** M4+5

Chair: *Saba Kamal (United States of America), Barbara Sandi (Germany)* Q&A

9475	08:00	25'	Science and principles of neurodynamics – from theoretical concepts to clinical practice <i>Ashim Bakshi (United States of America)</i>	0'
9476	08:25	20'	Quick Lab – Assessment of Entrapment Neuropathies – 10 step, Scratch collapse etc <i>Catherine Curtin (United States of America)</i>	0'
9477	08:45	25'	Surgical management of upper extremity nerve entrapments <i>Elisabet Hagert (Sweden)</i>	0'
9026	09:10	20'	Efficacy of neural mobilization in median nerve without soft tissue manipulation techniques <i>Saba Kamal (United States of America)</i>	0'
9478	09:30	30'	Case studies <i>Ashim Bakshi (United States of America), Catherine Curtin (United States of America), Elisabet Hagert (Sweden), Saba Kamal (United States of America)</i>	0'

09:00–10:00 **PT17 Hand and wrist injuries in elite sport** M6+7

Chair: *Dominik Simon (Germany)* Q&A

9199	09:00	12'	HAND AND WRIST INJURIES IN BALL SPORTS: MANAGING ELITE ATHLETES <i>Gregoire Chick (Switzerland)</i>	0'
9438	09:12	12'	How hand therapy intervention differs according to the specific sport and the specific role of the athlete in that sport. <i>Silvio Tocco (Italy)</i>	0'
9439	09:24	12'	The role of regenerative medicines in management of hand injury in elite sport <i>Regina Le Fauve (United States of America)</i>	0'
9440	09:36	12'	Wrist stabilisation and high end proprioceptive training in elite tennis players. <i>Tracey Fairplay (Italy)</i>	0'
	09:48	0'	Panel Discussion	12'

Scientific Programme – Thursday

08:00–10:30	TWS13 Detect – Distinguish – Treat: Splinting of Swan Neck Deformity in Rheumatoid Arthritis	M8
	<i>Gesa Thymm (Germany), Susanne Bitzer (Germany)</i>	
10:00–10:30	Coffee Break	
	Visit of Industry and ePoster Exhibition & Silent Auction	
10:30–12:30	PS53 EWAS Scapholunate ligament and more 1	A6-7
	<i>Chair: Scott Wolfe (United States of America), Martin Wells (South Africa), Huawei Yin (China)</i>	
		Q&A
1162 10:30	6' A new entity of carpal instability non dissociative after wrist fractures <i>Margaret Fok (Hong Kong), D. Fernandez</i>	2'
1964 10:38	6' New ligament reconstruction for midcarpal instability – a case report <i>Ahmed Naeem Atiyya (Egypt), R. Soliman, I. Koriem, H. Abd El Hamid</i>	2'
275 10:46	6' Arthroscopic treatment for isolated traumatic lunotriquetral ligament injury without triangular fibrocartilage complex lesion <i>Byungsung Kim (South Korea [ROK]), K. Yun, W. Cho</i>	2'
626 10:54	6' Chronic, isolated lunotriquetral instability Biomechanical testing of the Bernese surgical treatment and review of the literature <i>Janina Riederer (Switzerland), E. Vögelin, L. Haug, T. Adler</i>	2'
625 11:02	6' Dorsal bone-ligament-bone reconstruction of chronic, isolated lunotriquetral instability Technique and clinical results <i>Tom Adler (Switzerland), J. Riederer, E. Vögelin</i>	2'
1292 11:10	6' Arthroscopic surgery for recurrence after wrist ganglion excision, a series of 12 procedures <i>Pierre Croutzet (France), I. Djerbi, R. Guinand</i>	2'
529 11:18	6' Arthroscopic resection of volar wrist ganglion: surgical technique description and a prospective series of 39 patients <i>Ricardo Kaempf (Brazil), J. Farina Brunelli, M. Aita, G. Mantovani, V. Carratala Baixauli, P. J Delgado</i>	2'
1776 11:26	6' Arthroscopic treatment of dorsal wrist ganglia: influence of dorsal capsulodesis <i>Elisabete Ribeiro (Portugal), N. Oliveira, J. Nunes, R. Rocha Afonso, P. Varanda, J. Ribeiro, L. Rodrigues</i>	2'
1176 11:34	6' The Critical Ligamentous Stabilizers of the Intercalated Segment. A Cadaveric Study <i>Alfonso Perez (Chile), R. Jethanandani, E. Vutescu, K. Meyers, S. Lee, S. Wolfe</i>	2'
1257 11:42	6' Wrist proprioception and forearm muscles biomechanical parameters dependency in DISI cases <i>Marta Jokieli (Poland), P. Surdzien, P. Czarnecki, L. Romanowski</i>	2'

Scientific Programme – Thursday

- 1222 11:50 6' Wrist traction interferes with the arthroscopic evaluation and surgical repair of the scapholunate misalignment. A kinetic study in cadavers. 2'
Mireia Esplugas (Spain), A. Lluch Bergada, M. Garcia-Elias, D. Ananos Flores, G. Salva-Coll, A. Rodriguez-Baeza, N. Fernandez, I. Puig de la Bellacasa
- 1856 11:58 6' In Vivo Length Changes of Scapholunate Interosseous Ligament during Wrist Flexion-Extension 2'
Shuguo Xing (China), T. Mao, G. Wang
- 36 12:06 6' The Twist X-ray – A Novel Test for Dynamic Scapholunate Instability 2'
Sheena Sikora (Canada), E. Ek, A. Rotstein, H. Jason, T. Stephen
- 651 12:14 6' Scaphoid fractures with scapho-lunate ligament involvement: instability or ligamentous laxity? Role of arthroscopy and pinning 2'
Federico Pilla (Italy), V. Duca, N. Della Rosa, G. Colzani, R. Adani
- 773 12:22 6' Acute scapholunate dissociation, “A” assembly an effective option for its treatment. 2'
Fidel Cayon (Ecuador), G. Alegria

10:30–11:30 PS56 Microsurgery Short Papers 2 A1

Chair: Konstantinos Malizos (Greece), Andrzej Zyluk (Poland),
Hans-Günther Machens (Germany)

Q&A

- 721 10:30 3' Choosing the Flap in Complex Injuries of the Hand 1'
Alexandu Georgescu (Romania), i. ileana matei, I. Irina Capota, O. Olariu
- 1718 10:34 3' Which are the Limits Nowadays for Indication to Replantation? 1'
Pierluigi Tos (Italy), D. Ciclamini, A. Crosio, S. Odella, B. Battiston
- 100 10:38 3' Survival analysis of the replantation for avulsion of upper arm 1'
Xuehai Ou (China), X. Du
- 1250 10:42 3' “Less than ten” – Amputation injuries among surgeons 1'
Lars H. Evers (United States of America), R. Bodor
- 441 10:46 3' Late outcomes after hand replantation 1'
Andrzej Zyluk (Poland), A. Owczarska
- 494 10:50 3' Upper extremity amputations in Germany 1'
Nicco Krezdom (Germany), V. Stögner, K. Megerle, P. Vogt
- 1971 10:54 3' Nail unit matrix transplantation – aesthetic surgery after traumatic amputation of the distal phalanx 1'
Johanna Ueberberg (Germany), M. Langer
- 32 10:58 3' Versatility of oblique Neurovascular flap for fingertip amputations with rapid healing and return to work 1'
Chaitanya Dodakundi (United Arab Emirates), K. Alawadi, N. Jovanovic, B. Siraj
- 435 11:02 3' Reconstruction of fingertip injuries using the homodigital island flap 1'
Efstratios Athanaselis (Greece), V. Kontogeorgakos, I. Antoniou, D. Deligeorgis, Z. Dailiana, K. Malizos, S. Varitimidis

Scientific Programme – Thursday

- 710 11:06 3' Fingertip reconstruction with V-Y advance flaps combined with bone and nail bed grafts after amputation
Yongjun Rui (China) 1'
- 1656 11:10 3' Implementation of a finger stump database after traumatic finger amputation – Concept evaluation and clinical consequences
Arne Böcker (Germany), B. Bickert, L. Harhaus, U. Kneser, A. Rasner 1'
- 971 11:14 3' a treatment of the severed palm with degloved or avulsed skin
Yitong Chai (China), J. Pan, W. Zhang, H. Chen 1'
- 1997 11:18 3' Complications in severe upper limb open injury treated by a Katsaros flap
Luciano Torres (Brazil), R. Mattar Jr., G. Amariz, G. Barreiro, D. Simao, J. Cordoba, S. Okane 1'
- 709 11:22 3' The mangled hand and forearm – algorithm for treatment
Lyudmil Simeonov (Bulgaria) 1'

11:30–12:30 PS59 Microsurgery Pedicled Flaps A1

Chair: *Heinz-Herbert Homann (Germany), Kiyohito Takamatsu (Japan), Simonetta Odella (Italy)*

Q&A

- 1430 11:30 6' Long-term outcome of innervated digital artery perforator flap
Ali Cavit (Turkey), H. Ozcanli 2'
- 549 11:38 6' Application of reverse homodigital flap from the dorsolateral aspect of proximal finger based on a digital artery perforator in the middle phalanx
Jing Chen (China), H. Qin, Q. Chen, J. Tan 2'
- 910 11:46 6' Proximal Interphalangeal Joint Adipofascial Flap (PIPJAF) Resurfacing Improves the Active Motion of the Proximal Interphalangeal Joint after Contracture Release
Che-Hsiung Lee (Taiwan), C. Loh, Y. Chen, Y. Lin 2'
- 1864 11:54 6' Aesthetic and functional Reconstruction after fingertip injuries: Pivot flap technique
Roberto Adani (Italy), G. Petrella, G. Colzani, A. Brandolini 2'
- 1216 12:02 6' Innervated Reverse Digital Artery Island Flap through Bilateral Neuroorrhaphy using Direct Small Branches of the Proper Digital Nerve
Yohan Lee (South Korea [ROK]), Y. Lee, J. Kim, Y. Kim, C. Lee, Y. Chae, Q. Li, G. Baek 2'
- 1215 12:10 6' The Digital Artery Perforator Flaps and Dorsal Metacarpal Artery Perforator Flaps for Treatment of a Soft Tissue Defect of the Finger: Versatile Coverage Options to Avoid the Use of a Skin Graft.
Kiyohito Takamatsu (Japan), A. Kawabata, Y. Sogabe, Y. Morimoto, E. Onode 2'
- 1038 12:18 6' Anatomical study of dorsal hand vascular network and clinical application of a new multiple intermetacarpal perforators flap.
Cesare Tiengo (Italy), R. Sonda, A. Monticelli, D. Faccio, F. Bassetto 2'

10:30–11:30 **PS124 Tetraplegic Hand** A2

*Chair: Vincent Rod Hentz (United States of America),
Erich Mennen (South Africa)*

Q&A

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|------|-------|----|---|----|
| 1077 | 10:30 | 6' | Tetraplegia Hand Surgery. The Cypriot Perspective
<i>Constantinos Kritiotis (United Kingdom), C. Fakonti, J. Friden, S. Koch-Borner</i> | 2' |
| 398 | 10:38 | 6' | Treatment of acute forearm compartment syndrome after transradial coronary intervention
<i>Young Keun Lee (South Korea [ROK]), Y. Jung, K. Choi</i> | 2' |
| 767 | 10:46 | 6' | Grift Hand Spastic,tetraplegic,and obstetric paralysis
<i>Guillermo Loda (Argentina)</i> | 2' |
| 1986 | 10:54 | 6' | Managing Painful Wrist and Trapezio-Metacarpal Arthritis in Patients with SCI Using Surgical Joint Denervation
<i>Andreas Gohritz (Switzerland)</i> | 2' |
| 1603 | 11:02 | 6' | Deltoid to triceps transfer in tetraplegic patients: The Stoke Mandeville experience
<i>Marie Song (United Kingdom), R. Shirley, A. Heywood</i> | 2' |
| 1662 | 11:10 | 6' | Posterior deltoid to triceps transfer to restore active elbow extension in tetraplegic patients
<i>Manuel Mendez (Chile), M. Carrasco, C. Parot, E. Concha, A. Alvarez</i> | 2' |
| 1895 | 11:18 | 6' | Surgery for the tetraplegic upper limb : Initial experience and early results
<i>Erich Mennen (South Africa)</i> | 2' |

11:30–12:30 **PS125 Panel: Concepts for combined Tendon and Nerve Transfers** A2

Chair: Marion Mühldorfer-Fodor (Germany), Jan Friden (Switzerland), Carina Reinholdt (Sweden)

Q&A

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|------|-------|-----|--|-----|
| 4140 | 11:30 | 8' | Results of reconstructive Hand Surgery by Tendon Transfers
<i>Ulrike Schnick (Germany)</i> | 0' |
| 4141 | 11:38 | 13' | Opportunities and Limitations of Tendon Transfers
<i>Jan Friden (Switzerland)</i> | 0' |
| 4142 | 11:51 | 13' | Opportunities and Limitations of Nerve Transfers
<i>Natasha van Zyl (Australia)</i> | 0' |
| 4143 | 12:04 | 0' | Round Table: Concepts for combined Tendon and Nerve Transfers
<i>Marion Mühldorfer-Fodor (Germany), Vincent Rod Hentz (United States of America), Jan Friden (Switzerland), Khalid Mohammed (New Zealand), Carina Reinholdt (Sweden), Natasha van Zyl (Australia)</i> | 26' |

10:30–12:30 PS109 Tendon 1

A3

Chair: Jin Bo Tang (China), Ales Fibir (Czech Republic),
Jason Wong (United Kingdom)

Q&A

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|------|-------|----|--|----|
| 611 | 10:30 | 6' | Asymmetric 6-Strand Flexor Tendon Repair – Biomechanical Analysis using Barbed Suture
<i>Jasmin Lee (Singapore), Y. Wong</i> | 2' |
| 689 | 10:38 | 6' | Comparison of healing strengths of flexor tendons repaired with two multi-strand configurations in a chicken model
<i>Qianqian Yang (China), S. Xing, Y. Zhou</i> | 2' |
| 567 | 10:46 | 6' | Outcomes of FPL tendon primary repair in zone 1 and zone 2 by using M-Tang core suture followed with early active mobilization
<i>Zhangjun Pan (China)</i> | 2' |
| 1170 | 10:54 | 6' | One stage flexor tendon reconstruction using a silastic active tendon implant. Ten years of experience.
<i>Jhon Fredy Castaneda Lopez (Colombia), G. Hernandez, R. Galan</i> | 2' |
| 1082 | 11:02 | 6' | Development and biomechanical analysis of a new 4-strand suture for transosseous flexor tendon repairs in zone 1
<i>Patrick Harenberg (Germany), J. Grünert, M. Lehnhardt, S. Christen</i> | 2' |
| 688 | 11:10 | 6' | Tendon Healing Strengths after Repair with Three Different Configurations in a Chicken Model
<i>Youlang Zhou (China), S. Xing, Q. Yang</i> | 2' |
| 1645 | 11:18 | 6' | Clinical Outcomes of Zone 1 Flexor Tendon Injuries Treated With Bone Anchor
<i>RaviKanth Mallina (United Kingdom), R. Jose</i> | 2' |
| 974 | 11:26 | 6' | Number of weaves is an important factor in the tensile strength of the proximal weave in tendon grafting
<i>Abby Choke (Singapore), H. bin Abdul Razak, D. McGrouther, Y. Wong, W. Cheong</i> | 2' |
| 1570 | 11:34 | 6' | The Pennington's modification of the Kessler repair: unexpected observations through 3-D modelling
<i>Amitabha Lahiri (Singapore), S. J Sebastin, K. J. Liong, T. Karjalainen</i> | 2' |
| 1624 | 11:42 | 6' | Rupture rate, functional outcome and patient satisfaction after primary flexor tendon repair using a non-absorbable synthetic polyethylene terephthalate surgical suture and Tsuge suture technique with early active motion rehabilitation.
<i>Stephanie Köhler (Germany), M. Sauerbier, F. Neubrech</i> | 2' |
| 1708 | 11:50 | 6' | Tensile resistance in a tenorrhaphy of flexors of the hand according to the distance of the grip: Pilot study in pigs
<i>Julio Sandoval (Colombia), N. Camacho</i> | 2' |

Scientific Programme – Thursday

- 1106 11:58 6' Helical tendon repair: description of a new technique and comparative biomechanical analysis with two standard techniques 2'
Carlos Eduardo Torres Fuentes (Colombia), F. Carvajal Flechas, J. Hernandez Beltran, J. Abaunza, B. Barragan, D. Carmona, A. Ramirez
- 1390 12:06 6' Biomechanical Assessment of Suture Pullout Strength: A Comparison of the Anchor Suture and the Modified Kessler Techniques 2'
Chaitanya Mudgal (United States of America), I. Ibrahim, T. Julien
- 404 12:14 6' Delayed zone 2 flexor tendons repair with less fatigue of the operators had better outcomes than primary repairs: An analysis of 83 fingers 2'
Xiang Zhou (China), J. Chen, J. Qin
- 420 12:22 6' Outcomes of flexor tendon repairs of 99 fingers in zones 1 and 2 using a multi-strand core suture repair followed by early active mobilization 2'
Zhangjun Pan (China)

10:30–11:30 PS14 OA PIP

A5

Chair: Warren Hammert (United States of America), Nicole Schmelzer-Schmied (Switzerland), Kazuki Sato (Japan)

Q&A

- 213 10:30 6' Denervation of the MCP and the PIP joint – An effective treatment of osteoarthritis in the hand 2'
Rebekka Rath (Germany), C. Ampofo, W. Konur, T. Del Gaudio, M. Haerle
- 537 10:38 6' PIP joint lateral stability in healthy joints compared to surface replacement and silicone arthroplasty 2'
Stefanie Hensler (Switzerland), P. Behm, S. Ferguson, D. Herren, S. Schindele
- 1563 10:46 6' Proximal Interphalangeal Joint (PIPJ) Arthroplasty for Osteoarthritis (OA) of the Index Finger 2'
Tomos Richards (United Kingdom), L. Ingham, S. Stevens, I. Russell, D. Newington
- 271 10:54 6' Prosthetic Arthroplasty of the proximal interphalangeal joint using a modular surface gliding implant: A retrospective study 2'
Stefan Meuser (Germany), M. Richter, T. Brockamp, N. Schwalfenberg
- 1606 11:02 6' Effect of proximal interphalangeal (PIP) joint fusion on grip force and load distribution of the hand 2'
Angela Reger (Germany), M. Mühldorfer-Fodor, K. Prommersberger, J. van Schoonhoven
- 535 11:10 6' Determinants of subjective and clinical outcomes one year after proximal interphalangeal joint surface replacement 2'
Stefanie Hensler (Switzerland), D. Herren, M. Marks, M. Wehrli, S. Schindele
- 692 11:18 6' Medium to long term outcomes of pyrocarbon total PIP joint arthroplasty 2'
Mark Ross (Australia), M. Häfeli, R. Strauss, G. Couzens, D. Gilpin, J. Potter
- 66 11:26 6' Origami Medial Femoral Condyle Flap for Finger Joint Reconstruction 2'
Hiroki Hachisuka (Japan), N. Hamada, S. Shimose, T. Hamasaki, Y. Izuta, J. Fujimori, R. Mori, S. Okawa, S. Ishibashi

11:30–12:30 **PS122 OA PIP Round Table** A5

Chair: *Daniel B. Herren (Switzerland), Mark Ross (Australia),
Martin Richter (Germany)*

Q&A

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|------|-------|----|---|-----|
| 4180 | 11:30 | 6' | Failure Rates of PIP Arthroplasty
<i>Kevin Chung (United States of America)</i> | 0' |
| 4165 | 11:36 | 6' | PIP Prosthesis in young Workers?
<i>Amy Ladd (United States of America)</i> | 0' |
| 4166 | 11:42 | 6' | Which Approach?
<i>Marco Rizzo (United States of America)</i> | 0' |
| 4167 | 11:48 | 6' | Revision PIP Arthroplasty
<i>Stephan Schindele (Switzerland)</i> | 0' |
| 4168 | 11:54 | 6' | PIP Arthroplasty in rheumatoid Arthritis – an Option?
<i>Hajime Ishikawa (Japan)</i> | 0' |
| | 12:00 | 0' | Round Table Discussion | 26' |

10:30–12:00 **PS68 CMC – STT and Arthroscopy** A8

Chair: *Tyson Cobb (United States of America), Martin Fernando Caloia (Argentina),
Mathilde Gras (France)*

Q&A

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|------|-------|----|--|----|
| 1867 | 10:30 | 6' | Arthroscopic partial resection arthroplasty and allograft tendon interposition
in stage III trapeziometacarpal osteoarthritis
<i>Paulo Gil Ribeiro (Portugal), J. Marques, A. Quintas, P. Costa</i> | 2' |
| 392 | 10:38 | 6' | Arthroscopic Suspension Arthroscopy using PL tendon for Osteoarthritis
of the Thumb Carpometacarpal Joints
<i>Masaya Tsujii (Japan), K. Odake, H. Satonaka, A. Sudo</i> | 2' |
| 1894 | 10:46 | 6' | Arthroscopic Treatment of Thumb Basal Joint Arthritis
<i>Abhijeet Wahegaonkar (India), A. Bansode, S. Mane, C. Karande Patil</i> | 2' |
| 1240 | 10:54 | 6' | CMC osteoarthritis arthroscopically treated by hemitrapecectomy and mini
tight rope suspension
<i>Joaquim Casanas (Spain), P. Lopez Osornio, C. Martinez Andrade,
S. Lopez Marne</i> | 2' |
| 733 | 11:02 | 6' | Arthroscopic distal hemitrapeziectomy versus open distal hemitrapeziectomy
without interposition in osteoarthritis of the first CMC joint; Two year follow
up results of a randomized controlled trial
<i>Cecile van Laarhoven (Netherlands), M. Baas, H. Coert, M. Zuidam, R. Koch</i> | 2' |
| 1208 | 11:10 | 6' | Prospective study of Stage III Thumb Carpometacarpal Joint Osteoarthritis
Treated with Arthroscopic Arthrodesis
<i>Esther Ching San Chow (Hong Kong)</i> | 2' |
| 1630 | 11:18 | 6' | Midcarpal instability after hemitrapeziectomy, total trapeziectomy and distal
resection of the scaphoid pole
<i>Luzian Haug (Switzerland), L. Paeffgen, T. Adler, E. Vögelin</i> | 2' |

Scientific Programme – Thursday

- 1778 11:26 6' Long-term results of treatment of scapho-trapezium-trapezoid (STT) arthritis by use of pyrocarbon implant (STPI) 2'
Enrico Carita (Italy), A. Donadelli, L. Cugola
- 1771 11:34 6' Modified Arthroscopic Resection Arthroplasty for isolated STT osteoarthritis 2'
Claus J. Deglmann (Germany), N. Knie, C. Pawelek, V. Celigoj, B. Lukas
- 1552 11:42 6' Arthroscopic STT osteoarthrosis treatment 2'
Pau Lopez Osornio (Spain), J. Casanas, C. Martinez Andrade

12:00–12:30 PS38 Panel: CMC & STT and Arthroscopy – Is Interposition needed? A8

Chair: Abhijeet Wahegaonkar (India), Martin Fernando Caloia (Argentina), Min Jong Park (South Korea)

- 4135 12:00 6' CMC OA by ASK in early stages 0'
Eva-Maria Baur (Germany)
- 4136 12:06 6' CMC OA by ASK in all stages 0'
Tyson Cobb (United States of America)
- 1735 12:12 6' Arthroscopic distal scaphoid resection for STT arthritis 0'
Riccardo Luchetti (Italy), A. Atzei, R. Cozzolino
- 12:18 0' Discussion 8'

10:30–12:30 PT19 Management of Wrist Injuries M1-3

Chair: Rose Luciano (Italy), Barbara Dopfer (Germany)

- 9450 10:30 15' Anatomy and function of the TFCC and DRUJ 0'
Elisabet Hagert (Sweden)
- 9451 10:45 15' Rehabilitation of the TFCC and DRUJ following surgery 0'
Emily Altman (United States of America)
- 9452 11:00 15' Conservative management with a stabilizing exercise program in triangular fibrocartilage complex lesions with distal radioulnar joint instability; a pilot intervention study 0'
Elske Bonhof-Jansen (Netherlands)
- 9453 11:15 15' Neuro-proprioceptive Rehabilitation in Wrist Injuries 0'
Tracey Fairplay (Italy)
- 9454 11:30 15' An exercise program for the chronically painful wrist 0'
Annemieke Videler (Netherlands)
- 9455 11:45 15' Carpal Pathological S-L ligament injuries 0'
Kai Megerle (Germany)
- 9456 12:00 15' Treatment Regime for pts with dynamic wrist instability 0'
Barbara Dopfer (Germany), Beate Jung (Germany)
- 12:15 0' Panel Discussion 15'

Scientific Programme – Thursday

10:30–12:30 **PT23 Free Paper Session II** M4+5

Chair: Dorit Aaron (United States of America)

Q&A

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|------|-------|----|--|----|
| 9031 | 10:30 | 8' | The Evolution of Hand Therapy Led Clinics
<i>Yvonne Fellner (Australia), T. Stephanie, A. Leong</i> | 0' |
| 9080 | 10:38 | 8' | Virtual Therapy Visits – Can We Provide High Quality Therapy to Underserved Communities Via Telehealth Technology?
<i>Kerstin Palm (United States of America)</i> | 0' |
| 9254 | 10:46 | 8' | Digital therapy: Enablers and barriers to virtual consultations?
<i>Fiona Sandford (United Kingdom), E. Ibrahim</i> | 0' |
| 9178 | 10:54 | 8' | Exploring the extended role of Hand Therapy Assistants.
<i>Abigail Manley-Gilbert (United Kingdom), E. van der Veen, F. Sandford</i> | 0' |
| 9300 | 11:02 | 8' | Costs and epidemiology of acute hand and wrist injuries in the Emergency Department
<i>Luke Robinson (Australia), L. O'Brien</i> | 0' |
| | 11:10 | 0' | Q&A | 8' |
| 9308 | 11:18 | 8' | PlayBionic: Interactive rehabilitation for patients after nerve transfer or upper extremity amputation
<i>Cosima Prahm (Austria), A. Sturma, O. Aszmann</i> | 0' |
| 9151 | 11:26 | 8' | Comparing the use of an app with conventional method for home exercise program following distal radius fracture surgery in the mild-term: a pilot study
<i>Alejandro Suero Pineda (Spain), M. Garcia Frasquet, M. Nieto Diaz de los Bernardos, P. Rodriguez Sanchez-Laulhe, J. Blanquero Villar</i> | 0' |
| 9027 | 11:34 | 8' | An online training programme to facilitate the implementation of an evidence-based hand exercise programme into clinical practice
<i>Esther Williamson (United Kingdom), C. Srikesavan, J. Adams, J. Thompson, S. Lamb</i> | 0' |
| 9123 | 11:42 | 8' | Inducing a phantom hand map on the forearm of healthy subjects widens the possibilities for non-invasive sensory feedback in hand prostheses
<i>Ulrika Wijk (Sweden), P. Svensson, C. Antfolk, A. Björkman, B. Rosen</i> | 0' |
| 9075 | 11:50 | 8' | Robotic elbow flexion training with a newly developed upper limb single-joint Hybrid Assistive Limb (upper limb HAL-SJ) for elbow flexor reconstruction after brachial plexus injury
<i>Shigeki Kubota (Japan), H. Kadone, Y. Shimizu, Y. Hara, M. Yamazaki</i> | 0' |
| 9211 | 11:58 | 8' | 3D print orthosis for hand therapy. New challenges.
<i>Sanae Zens (Germany), C. Deglmann, C. Deglmann</i> | 0' |
| 9186 | 12:06 | 8' | Pulp-to-palm distance is associated with functional outcome 3 months after combined plating for distal radius fracture
<i>Johan Niklasson (Sweden), M. Sagerfors, K. Pettersson</i> | 0' |

Scientific Programme – Thursday

9023	12:14	8'	Using the Rasch Model to Develop a Measure of Participation Capturing the Full Range of Participation Characteristics for the Patients with Hand Injuries <i>Maryam Farzad (Iran), E. Shafiee, F. Layeghi</i>	0'
	12:22	0'	Q&A	8'
10:30–11:30	TWS16e Skin Traction EAVAST			M6+7
	<i>Jason Fairclough (Australia)</i>			
11:30–12:30	TWS16l Skin Traction EAVAST			M6+7
	<i>Jason Fairclough (Australia)</i>			
12:30–14:00	Lunch Break and Industry Workshops			
	Visit of Industry and ePoster Exhibition & Silent Auction			
14:00–16:00	PS54 EWAS Scapholunate ligament 2			A6-7
	Chair: <i>Sanjeev Kakar (United States of America), Adriaan Smit (South Africa), Jane C Messina (Italy)</i>			Q&A
821	14:00	6'	The Validity of PRWHE and QuickDASH as Outcome Measures Following Surgery to Treat Scapholunate Ligament Dissociation <i>Libby J Anderson (Australia), G. Couzens, S. Manzanero, B. Jha, S. Peters, M. Ross</i>	2'
1826	14:08	6'	Do we need to treat a Grade 3 scapholunate ligament injury according to Geissler classification in acute Distal Radius Fractures? Results of rearthroscopy at the time of Implant removal. <i>Rohit Arora (Austria), T. Kastenberger, G. Schmidle, M. Gabl</i>	2'
629	14:16	6'	Radiovolar approach of midcarpal arthroscopy for assessment of dorsal scapholunate interosseous ligament in distal radius fracture. <i>Daisuke Suzuki (Japan), H. Ono, R. Fujitani, Shohei Omokawa (Japan)</i>	2'
389	14:24	6'	The Safety of the Volar Midcarpal Portals in Wrist Arthroscopy <i>Sanjeev Kakar (United States of America), J. Gillis</i>	2'
1125	14:32	6'	Arthroscopic evaluation of ligament injuries associated to intraarticular distal radius fractures <i>Aldo Villavicencio (Chile), R. Jorquera, P. Orellana, F. Melibosky, P. Cobb, A. Almonacid</i>	2'
1644	14:40	6'	Treatment of scapholunate dissociation with arthroscopic ligamentoplasty reconstruction <i>Pedro Jose Delgado Serrano (Spain), F. Polo Simon, B. Garcia-Medrano, M. Aita, R. Kaempf</i>	2'
1874	14:48	6'	SL reconstruction with fibertape- a possibility of a gentle SL reconstruction? First experience with a new surgical technique <i>Hans-Georg Damert (Germany)</i>	2'

Scientific Programme – Thursday

- 545 14:56 6' In vivo implantation and characterisation of a novel 3D-printed multiphasic scaffold in the rabbit knee for scapholunate ligament reconstruction 2'
Hayman Lui (Australia), C. Vaquette, S. Kakar, A. van Wijnen, R. Bindra
- 648 15:04 6' Long-term follow-up of scapho-lunate reconstruction with the DRAW technique 2'
Norman Della Rosa (Italy), N. Bertozzi, G. Colzani, R. Adani
- 693 15:12 6' Results of dorsal and volar reconstruction of scapholunate ligament with FCR tendon 2'
Christian Kindler (Germany), B. Lukas
- 1490 15:20 6' Comparative Analysis of Three Techniques of Scapholunate Reconstruction for Dorsal Intercalated Segment Instability 2'
Marion Burnier (France), S. Wolfe, R. Jethanandani, K. Meyers, A. Alfonso Perez, S. Lee
- 649 15:28 6' Comparison between dorsal capsuloplasty techniques for chronic injuries of the scapho-lunate ligament: Viegas vs Berger. 2'
Ettore Di Giovine (Italy), E. Lancellotti, Norman Della Rosa (Italy), R. Adani
- 476 15:36 6' Short to mid-term results of a 360 degree technique for reconstruction of the scapho-lunate ligament 2'
Allan Ibsen-Sørensen (Sweden)
- 450 15:44 6' Scapholunate Ligament Reconstruction with Internal Brace Technique Provides Biomechanically Equivalent Fixation Compared to the Percutaneous Pin Fixation in a Cadaveric Model 2'
Steven Orr (United States of America), K. Morse, K. Meyers, A. Weiland
- 1169 15:52 6' Internal brace augmentation of the scapholunate interosseous ligament repair: A biomechanical study 2'
Mauro Maniglio (Switzerland), I. Park, S. Shin, I. Koh, N. Patel, C. Lin, V. Truong, M. McGarry, T. Lee

14:00–16:00 PS58 Microsurgery Supramicro and Bone A1

Chair: Bruno Battiston (Italy), Tanaka Katsumi (Japan), Xin Wang (China) Q&A

- 1409 14:00 6' Reconstruction of Long Tibia Bone Defect using Free Vascularized Fibula Graft and Locking Plate 2'
Yeun soo Kim (South Korea [ROK]), Y. Lee, H. Seok, M. Lee, Y. Lee, C. Lee, Y. Chae, G. Baek
- 1926 14:08 6' Combination of two vascularized bone grafts for closing a huge defect of humerus. A case presentation. 2'
Uldis Krustins (Latvia), D. Ozols, J. Zarins, E. Lavrinovics, V. Nefjodovs
- 1154 14:16 6' Hybrid vascularized bone and soft tissue transfer for massive bone and skin defect of the digit. -Surgical Technique and mid-term follow up- 2'
Yoshinori Takahashi (Japan), N. Hibino, Y. Hamada, R. Satoh, M. Yamano, T. Terai, T. Kasai

Scientific Programme – Thursday

- 811 14:24 6' Use of medial femoral condyle flap for treatment of non-union and avascular necrosis of the upper limb. Cadaveric study and morbidity analysis of 18 cases. 2'
Gonzalo Mallarino (Colombia), C. Romero
- 1866 14:32 6' Vascularised bone graft from distal femur in upper extremity reconstruction 2'
Igor Golubev (Russian Federation), M. Merkulov, O. Bushuev, I. Kutepov, I. Kukin, M. Sautin
- 1276 14:40 6' Anatomical Study of Periosteal Vascularization of the Forearm: Design of Periosteal Vascularized Flaps and Clinical Application 2'
Sergi Barrera Ochoa (Spain), G. Mendez-Sanchez, D. Campillo-Recio, A. Rodriguez-Baeza, X. Mir-Bullo, J. Knörr, F. Soldado
- 956 14:48 6' The chimeric superficial circumflex iliac artery perforator flap is an effective option for reconstruction of osteo cutaneous defects of the hand or foot 2'
Hong Chen (China), J. Pan, X. Wang, Y. Huang, M. Li
- 1734 14:56 6' Functioning lymphatics transfer for treatment of severe upperarm lymphedema 2'
Hirofumi Imai (Japan), I. Koshima, S. Yoshida
- 553 15:04 6' Modified arterialized venous flap for the reconstruction of 12 digits 2'
Jing Chen (China), J. Tan, Q. Chen, J. Tang
- 91 15:12 6' Soft tissue reconstruction of hand and upper extremity with negative pressure wound therapy (NPWT): a systematic review. 2'
Johnny Ionut Efanov (Canada), J. Shine, L. Paek, E. Coeugnet, A. Danino, A. Izadpanah
- 1972 15:20 6' Reconstruction of the radio ulnar column with third metatarsian free flap and computed 3D planning 2'
Carlos Torres (Colombia), L. Franco
- 1199 15:28 6' Suppression of finger tremor using dynamic vibration absorbers 2'
Masashi Matsuta (Japan), K. Tada, T. Nakajima, M. Nakada, H. Tsuchiya
- 1682 15:36 6' Use of giant-sized flow-through venous flap for simultaneous reconstruction of dual or multiple major arteries in salvage therapy for complex upper limb traumatic injury 2'
Hui Zhu (China)
- 340 15:44 6' Comparative study on two models of arterialized venous flap in minipigs 2'
Zheng Li (China), Z. Zhang

14:00–16:00 PS33 Hand and Wrist Biomechanics International (HWBI) 1 A2

Chair: David Nelson (United States of America), William Seitz (United States of America), Stephan Schindele (Switzerland)

Q&A

- 4183 14:00 2' Introduction to HWBI 0'
Zong-Ming Li (United States of America)
- 784 14:02 5' Stress behavior in CMC thumb in Bennet's fracture: Finite element analysis 0'
Carlos Torres (Colombia), M. Toro, C. Morales

Scientific Programme – Thursday

866	14:07	5'	Nitinoll Intramedullary Fixation for DIP Arthrodesis Restores Biomechanically Stable Pinch and Grasp <i>William Seitz (United States of America)</i>	0'
568	14:12	5'	Distal interphalangeal joint osteoarthritis: Silicone arthroplasty versus screw arthrodesis <i>Lea Estermann (Switzerland), L. Neukom, M. Marks, S. Kündig, D. Herren, S. Schindele</i>	0'
377	14:17	5'	Thumb IP joint arthroplasty with a surface gliding implant: One-year follow-up <i>Stephan Schindele (Switzerland), S. Hensler, M. Marks, D. Herren</i>	0'
4184	14:22	5'	Effect of carpal tunnel release on digital flexors tendons excursion: comparison of open and percutaneous sonographically guided techniques. <i>Fabian Moungondo (Belgium)</i>	0'
	14:27	0'	Discussion	7'
1990	14:34	5'	Engineering Drawing Analysis Applied to Complex Radiographs <i>David Nelson (United States of America)</i>	0'
167	14:39	5'	What is wrong with the total wrist arthroplasty? The alternative understanding of wrist biomechanics according to the mathematical conversion of a non-linear biomechanical system to linear one. <i>Lauren Gorelick (Israel)</i>	0'
124	14:44	5'	WristArt is the new concept of the total wrist joint prosthesis based on a fractal theory of the biomechanics of the wrist joint. <i>Lauren Gorelick (Israel)</i>	0'
1453	14:49	5'	Biomechanical effects of ulnar styloid fracture repair techniques on distal radio-ulnar joint stability <i>Mauro Maniglio (Switzerland), I. Park, V. Truong, R. Flueckiger, D. Wright, L. Bollinger, M. Zumstein, M. McGarry, T. Lee, M. Kuenzler</i>	0'
	14:54	0'	Discussion	7'
780	15:01	5'	Resting Forearm Position and its Relevance to the Dart Thrower's Motion <i>Mark Ross (Australia), L. Anderson, A. Sood, G. Couzens</i>	0'
1762	15:06	5'	Relationship between ulnar variance and shape of the midcarpal joint. <i>Hanne Vandevivere (Belgium), M. Garcia-Elias, J. Vanhaecke, M. Dezillie, F. Vanrietvelde, F. Stockmans</i>	0'
736	15:11	5'	In-vivo 3D motion analysis of the wrist during dart-throwing motion after 3-corner fusion and RSL fusion <i>Lisa Reissner (Switzerland), G. Fischer, M. Calcagni</i>	0'
	15:16	0'	Discussion	7'
1263	15:23	5'	Biomechanical evaluation of wrist flexors and extensors function after arthroscopic treatment of triangular fibrocartilage lesions <i>Marta Jokiel (Poland), K. Judka, R. Splawski, P. Czarnecki, L. Romanowski</i>	0'

Scientific Programme – Thursday

- 1436 15:28 5' The bony anatomy of the radius and ulna : A Computed Tomography study for implant design and related research. 0'
- Henry Pretorius (South Africa), M. Burger, N. Adam*
- 4185 15:33 5' The sensory component plays an important role in prognostic and prescriptive of hand rehabilitation 0'
- Hsiu-Yun Hsu (Taiwan)*
- 4186 15:38 5' Effects of humeral shortening on the three-dimensional configuration of the brachial plexus. A cadaveric study 0'
- Jérôme Valcarenghi (Belgium)*
- 15:43 0' Discussion 7'

14:00–16:00 PS77 Tendon 2 A3

Chair: Wyndell Merritt (United States of America), Ashraf Moharram (Egypt), Hebe Desiree Kvernmo (Norway)

Q&A

- 455 14:00 6' Prognostic factors for conservatively treated sagittal band injuries of the metacarpophalangeal joint 2'
- Young Hak Roh (South Korea [ROK]), S. Hong, H. Gong, G. Baek*
- 1025 14:08 6' A Novel Procedure for Chronic Sagittal Band Rupture, Permitting Immediate Active Motion and Hand Use During Recovery 2'
- Wyndell Merritt (United States of America), L. Nigro*
- 1658 14:16 6' Traumatic Subluxation of Extensor Carpi Ulnaris System 2'
- Fabio Curini-Galletti (Italy)*
- 183 14:24 6' The Thompson procedure for treating chronic mallet finger with swan neck deformity 2'
- Yan Chen (China), D. Xin, Z. Zhao*
- 261 14:32 6' Comparison of extension splint and temporary pinning for acute tendon mallet injury 2'
- Shigeki Nagura (Japan), T. Suzuki, T. Iwamoto, R. Iigaya, N. Matsumura, M. Nakamura, M. Matsumoto, K. Sato*
- 1773 14:40 6' 3D print orthosis for mallet finger. Digitalisation for digits: A pilot study. 2'
- Claus J. Deglmann (Germany), S. Zens, C. Johnson, C. Deglmann*
- 1851 14:48 6' Percutaneous advancement of proximal tendon stump with the pull-out technique for the treatment of acute mallet fingers 2'
- Huaiyuan Zheng (China), H. Liu, Z. Chen, J. Liu*
- 454 14:56 6' The Prevalence of the Linburg-Comstock anomaly in a Multiracial Population Sample. 2'
- Leonardo Barreto (Brazil), C. Fernandes, L. Nakachima, J. Gomes dos Santos, F. Faloppa*
- 468 15:04 6' It is never late to perform flexor tendon reconstruction for zone 2 injuries 2'
- Irina Miguleva (Russian Federation), I. Miguleva, A. Fain*

Scientific Programme – Thursday

- 943 15:12 6' Reconstruction of the Extensor Tendon of the Proximal Interphalangeal Joint (PIPJ) using a distally based slip of Flexor Digitorum Superficialis (FDS) 2'
Karen Smith (New Zealand), S. Collocott
- 1602 15:20 6' Immediate controlled active motion following Zone 5-7 Extensor Tendon Repair 2'
Rudolf Rosenauer (Austria), C. Pezzei, S. Quadlbauer, T. Hausner, M. Leixnering
- 1009 15:28 6' Anatomic Rationale and Clinical Results for Relative Motion Flexion Management of Acute and Chronic Boutonniere Deformity, Permitting Immediate Active Motion and Functional Use 2'
Wyndell Merritt (United States of America)
- 131 15:35 6' Extensor pollicis longus tendon reconstruction by extensor indicis proprius transfer or free tendon graft using a novel 2 cm retroposition tension method 2'
Fumiki Kamoi (Japan), M. Kondo, S. Uchiyama, H. Kato

14:00–16:00 PS67 CMC Trapezectomy

A5

Chair: Joris Duerinckx (Belgium), Sandra Pfanner (Italy), Angel Ferreres (Spain)

Q&A

- 97 14:00 6' Current Trends in Operative Treatment of Carpometacarpal Osteoarthritis: A Survey of European Hand Surgeons 2'
Qiqi Yin (Netherlands), M. Berkhout, M. Ritt
- 875 14:08 6' Volar plate retensioning after trapeziectomy and ligament reconstruction tendon interposition in basal thumb arthritis with hyperextension metacarpophalangeal instability 2'
Enrico Carita (Italy), A. Donadelli, L. Cugola
- 782 14:16 6' Ligament Reconstruction and Tendon Interposition and Partial Trapezoidectomy for Pantrapezial Arthritis 2'
Mark Ross (Australia), D. Gilpin, C. James, S. Peters, R. Benson, B. Gilpin
- 499 14:24 6' Suture button suspensoplasty vs Sigfusson-Lundborg ligamentoplasty for basilar thumb arthritis treatment 2'
Pedro Teixeira Mota (Portugal), A. Ribau, C. Rodrigues, M. Areias, A. Pereira
- 202 14:32 6' Trapezium bone resection arthroplasty and suspension with suture-button for the treatment of trapezium-metacarpal osteoarthritis: long-term follow-up in a Colombian cohort 2'
Carlos Gonzalez (Colombia), D. Suarez, D. Vanegas, C. Restrepo, A. Herrera
- 656 14:40 6' Biomechanical Comparison of Trapeziectomy and Suture button suspensoplasty versus Trapeziectomy and FCR ligamentous reconstruction for Thumb Carpometacarpal Arthritis 2'
Monica Ramirez (Colombia), B. Zellner, S. Goyal, M. Wang, C. Best, H. Matloub

- 1113 14:48 6' 5 to 7 years results using a mini-TightRope (Arthrex) alone to suspend the thumb metacarpal after a trapeziectomy in the treatment of thumb carpometacarpal osteoarthritis: proving the 5-year successful outcomes of this method. 2'
Martin Wells (South Africa), C. Anley, S. Pretorius, A. Ikram
- 1235 14:56 6' Basilar thumb arthritis: early mobilization versus splinting after trapeziectomy with ligament reconstruction and tendon interposition 2'
Daniela Pereira (Portugal), S. Figueiredo, V. Rodrigues, L. Machado, C. Ferreira, C. Pina
- 115 15:04 6' Prospective Cohort Study of the NuGrip CMC Implant for Carpometacarpal Osteoarthritis 2'
Olivier van Not (Netherlands), M. Ritt, F. Lötters, H. van Not
- 1499 15:12 6' Advantages of Arthroplasty vs Trapeziectomy for the Treatment of Thumb Carpometacarpal Joint Osteoarthritis. 2'
RaviKanth Mallina (United Kingdom), A. Khorati, H. Khan, G. Green, J. Craik, R. Sharma, N. Ellahee
- 1280 15:20 6' Determination of correct length in total trapeziometacarpal arthroplasty 2'
Bram van Hove (Belgium), A. Bruijnes, P. Caekebeke, K. Corten, I. Degreef, J. Duerinckx
- 2001 15:28 6' Arthroplasty of the First Carpo-metacarpal Joint: a randomized, double blinded clinical trial 2'
Mathias Glehr (Austria), A. Fink, G. Gruber, F. Amerstorfer, G. Bernhardt, S. Klim, A. Leithner
- 1738 15:36 6' ARPE-prosthesis: Clinical and radiographic relevance of intra-operative fluoroscopy guided orientation of the cup. Comparison to retrospective data with a minimal follow-up of ten years. 2'
Loïc Vercruysse (Belgium), S. Vanstockstraeten, A. Decramer
- 832 15:44 6' Ten-year outcomes of the Arpe prosthesis to treat osteoarthritis of the trapeziometacarpal joint 2'
Nadine Hollevoet (Belgium), A. De Smet, W. Vanhove, S. Benis
- 799 15:52 6' Clinical and Radiological Outcomes of a Trapezometacarpal Interposition Implant 2'
Thomas Maxwell (Australia), S. Wieschollek, J. Potter, R. Strauss, S. Peters, G. Couzens, M. Ross

14:00–16:00 HS14 Assessment – Joint Session IFSSH- IFSHT Assessments in the upper extremity – Can assessments be used to build bridges between patients, professions and researchers?

A8

Chair: Caroline Dereskewitz (Germany), Sarah Ewald (Switzerland), Kevin Chung (United States of America)

Q&A

- 4103 14:00 10' Critical Factors in Measuring Outcomes in Hand Surgery 0'
Kevin Chung (United States of America)

Scientific Programme – Thursday

4104	14:10	5'	Patient's perspective, video patient answers three questions about the assessment portion of their care <i>Caroline Dereskewitz (Germany)</i>	0'
4105	14:15	10'	What is the best tool? Assessing and quantifying function in the upper extremity <i>Christina Jerosch-Herold (United Kingdom)</i>	0'
4106	14:25	10'	The reproducibility crisis in science and the importance of publishing both positive and negative results <i>Ruud W. Selles (Netherlands)</i>	0'
4107	14:35	10'	Translating Outcome Assessment results to make Clinical Decisions in Complex Reconstructions of the Hand <i>S. Raja Sabapathy (India)</i>	0'
4108	14:45	10'	Patient reported outcome measures (DASH, PRTEE, etc.) advantages and challenges in gaining worldwide acceptance and usage of these tools. <i>Joy MacDermid (Canada)</i>	0'
4109	14:55	10'	Cross-cultural adaptation of the Disabilities of the Arm, Shoulder and Hand (DASH) Questionnaire: Aspects to consider <i>Susan de Klerk (South Africa)</i>	0'
4110	15:05	10'	Quantitative Techniques for Assessment of Upper Extremity Movement and Function: Possibilities, Challenges, and Opportunities <i>Aviva Wolff (United States of America)</i>	0'
4111	15:15	5'	Patient's perspective, video patient answers three questions about the assessment portion of their care <i>Caroline Dereskewitz (Germany)</i>	0'
9099	15:20	10'	International Standardization of Outcome Measurement for Patients with Hand & Wrist conditions: Consensus by the International Consortium for Health Outcome Measurement (ICHOM) Hand & Wrist Working Group. <i>Robbert Wouters (Netherlands), I. Project Team, I. Hand & Wrist Working Group, I. Hand & Wrist Working Group, S. Hovius</i>	0'
4113	15:30	10'	Development and implementation of an ICF-based standardized outcome measure for the hand and wrist: the ICF Hand <i>Michaela Coenen (Germany)</i>	0'
4114	15:40	10'	Systematic Outcome Measure Unification Efforts HAKIR: the Swedish national registry for hand surgery <i>Marianne Arner (Sweden)</i>	0'

16:00–16:30 Coffee Break

Visit of Industry and ePoster Exhibition & Silent Auction

16:30–16:55 **PS55 EWAS Scapholunate ligament 3** A6-7

Chair: Christophe Mathoulin (France), Andrew Chin Yuan Hui (Singapore), Terry L. Whipple (United States of America)

Q&A

- 796 **16:30** 6' Early Experience with a Novel Synthetic Scapholunate Ligament Construct 2'
Benjamin Hope (Australia), M. Ross, R. Strauss, G. Couzens
- 1667 **16:38** 6' Arthroscopic-assisted capsuloplasty in scapholunate tears: The role of the dorsal capsulo-scapholunate septum 2'
Adrian Pleßmann (Germany), M. Haerle, N. Schmelzer-Schmied, T. Del Gaudio
- 1957 **16:46** 6' Arthroscopic spiral tenodesis reconstruction for SL instability 2'
Andrea Atzei (Italy), M. Esplugas, R. Luchetti

16:55–17:45 **PS113 EWAS Panel: SL Instabilities Grade III: Do we still need to open the wrist?** A6-7

Chair: Christophe Mathoulin (France), Andrew Chin Yuan Hui (Singapore), Terry L. Whipple (United States of America)

Q&A

- 4070 **16:55** 8' Historical Overview 0'
Terry L. Whipple (United States of America)
- 4071 **17:03** 10' Advanced imaging of wrist instability 0'
Maryam Shahabpour (Belgium)
- 4099 **17:13** 6' Forearm pronation: the best ally of the scapholunate joint stability. 0'
Mireia Esplugas (Spain)
- 4072 **17:19** 6' Which is the role of the DCSS and does that change our understanding of SL? 0'
Christophe Mathoulin (France)
- 4073 **17:25** 6' Arthroscopic SL-Capsulodesis, is it a substitute to open procedures? 0'
Nicole Schmelzer-Schmied (Switzerland)
- 17:31** 0' Discussion 14'

17:45–18:30 **PS114 EWAS Panel: When and how to make an open SL reconstruction?** A6-7

Chair: Nicole Schmelzer-Schmied (Switzerland), Jeffrey Yao (United States of America), Abhijeet Wahegaonkar (India)

Q&A

- 4076 **17:45** 6' When and how to make an open SL reconstruction 0'
Marc Garcia-Elías (Spain)
- 4077 **17:51** 6' Arthroscopic Assisted Box Reconstruction of SI Ligament with Tendon Graft 0'
Michael Chu-kay Mak (Hong Kong), P. Ho
- 4078 **17:57** 6' My way 0'
Scott Wolfe (United States of America)

Scientific Programme – Thursday

4079 18:03 6' My way 0'
Mark Ross (Australia)

4080 18:09 6' My way 0'
Andrew Weiland (United States of America)

18:15 0' Discussion 15'

16:30–17:30 PS129 Microsurgery Pedicled Flaps and Complex Reconstructions A1

Chair: Juyu Tang (China), Michael Tonkin (Australia),
Scott Lawrence Levin (United States of America) Q&A

1519 16:30 6' Spare-part surgery for reconstructing a basic hand function 2'
Alperen Bingöl (Germany), T. Mett, R. Ipaktchi, A. Jokuszies, N. Krezdorn,
P. Vogt

1719 16:38 6' "Spare parts surgery" – functional saving for long segmental defects. 2'
A ten years long follow up study for the cross hand replantation.
Dzintars Ozols (Latvia), J. Zarins

343 16:46 6' Restoration of elbow active flexion via monopolar latissimus dorsii transfer 2'
in patients with arthrogryposis
Olga Agranovich (Russian Federation), E. Kochenova, S. Trofimova, E. Petrova,
D. Buklaev

1188 16:54 6' Does a vascularized proximal interphalangeal emi-joint transfer worth the 2'
efforts?
Stefano Lucchina (Switzerland), C. Fusetti, M. Guidi

598 17:02 6' Treatment of mutilated hands with multiple finger amputation by means 2'
of a free flap transfer with digital replantation or revascularization
Chao Chen (China), L. Hao, Z. Wang

1854 17:10 6' Full-Length Finger Reconstruction for Proximal Amputation With Expanded 2'
Wraparound Great Toe Flap and Vascularized Second Toe Joint
Wenhai Sun (China)

978 17:18 6' Repairing donor site of foot after improved Toe-to-thumb reconstruction 2'
utilizing superficial circumflex iliac artery perforator chimeric flap
Yaopeng Huang (China), J. Pan, X. Wang, W. Zhang

644 17:26 6' Repair of a long finger defect with transfer of a great toe flap combined 2'
with second toe joint and iliac bone graft
Liwen Hao (China), C. Chen, Z. Wang

17:30–18:30 PS121 Panel: Microsurgical Desasters and how to prevent them A1

Chair: Ulrich Kneser (Germany), Bauback Safa (United States of America),
Scott Lawrence Levin (United States of America) Q&A

4119 17:30 12' Patient Selection and Indications 0'
Scott Lawrence Levin (United States of America)

Scientific Programme – Thursday

4120	17:42	12'	Recipient Vessels: Selection, Dissection, Decision Making <i>Maurizio Calcagni (Switzerland)</i>	0'
4122	17:54	12'	Flap Choice and Flap Harvesting Technique <i>Marco Innocenti (Italy)</i>	0'
4121	18:06	12'	Micro and Macro Replantation <i>Chih-Hung Lin (Taiwan)</i>	0'
	18:18	0'	Discussion	12'

16:30–18:30 **PS34 Hand and Wrist Biomechanics International (HWBI) 2** **A2**

*Chair: Marc Garcia-Elias (Spain), Fabian Mounongo (Belgium),
Zong-Ming Li (United States of America)*

Q&A

4187	16:30	15'	Misleading biomechanical terminology in carpal pathology <i>Marc Garcia-Elias (Spain)</i>	5'
4188	16:50	15'	Should upper extremity joints considered non-weight bearing? <i>Frederic Schuind (Belgium)</i>	5'
4189	17:10	15'	Functional motion preservation of arthritic wrist <i>William Seitz (United States of America)</i>	5'
4190	17:30	15'	A history of distal radius fractures from the perspective of a surgeon/engineer <i>David Nelson (United States of America)</i>	5'
4191	17:50	15'	Carpal arch space augmentation by radioulnar wrist compression and muscle-ligament interaction <i>Zong-Ming Li (United States of America)</i>	5'
4192	18:10	15'	Does the stable central column theory offer anything useful? <i>Michael Sandow (Australia)</i>	5'

16:30–18:30 **PS101 Experimental Tendon** **A3**

*Chair: Andrzej Zyluk (Poland), Gursel Leblebicioglu (Turkey),
Joao Neves (Portugal)*

Q&A

812	16:30	6'	Postoperative pain management to the patients with distal radial fractures without opioid <i>Jeonghwan Kim (South Korea [ROK]), Y. Chae</i>	2'
1508	16:38	6'	Residual rotation of forearm amputation: Cadaveric study <i>Chang-Hun Lee (South Korea [ROK]), W. Choi, S. Kim, J. Kim, K. Lee</i>	2'
1305	16:46	6'	Investigation of RARg Signaling in Human Growth-Plate Chondrocytes <i>Joshua Abzug (United States of America), M. Matsuoka, M. Enomoto-Iwamoto, M. Iwamoto</i>	2'
94	16:54	6'	Documentary Photography in Dupuytren's Disease Surgery <i>Andrei Zhigalo (Russian Federation), V. Morozov, V. Pochtenko</i>	2'

- 1940 17:02 6' The Influence of reactive oxygen species on pathophysiological mechanisms of Dupuytren's disease 2'
Lisa Oezel (Germany), C. Büren, S. Thelen, M. Wohltmann, V. Grotheer, J. Windolf
- 1164 17:10 6' Evaluation of the use of collagen membrane in the repair of joint cartilage lesion in an animal model. 2'
Rafael Saleme Alves (Brazil), E. Kenji Nakano, M. Navarro, V. Do Vale, B. Barreto Correa, N. Ahmed Dsouki, J. Mora Veridiano, M. Akemi Sato
- 1809 17:18 6' The abduction system of the fifth finger. An anatomic and electromyographic study 2'
Luciano Poitevin (Argentina), D. Postan
- 884 17:26 6' Volumetric, cellular and genic expression modifications of FDP striated muscle following flexor tendon division in a rodent model. 2'
Guillaume Bacle (France), D. McCombe, E. Ek, S. Tham
- 469 17:34 6' Healing of a critical-sized bone defect in the rat with the use of platelet concentrates 2'
Irina Miguleva (Russian Federation), A. Fain, A. Savotchenko, N. Borovkova, I. Ponomarev, A. Vaza, M. Petukhova, A. Papaninov, G. Berchenko
- 1198 17:42 6' Biomechanical Analysis of Thumb Ulnar Collateral Ligament Repair with Suture Tape Augmentation 2'
Steven Shin (United States of America), N. Patel, C. Lin, Y. Itami, M. McGarry, T. Lee
- 1442 17:50 6' Sonographically guided percutaneous A1 pulley release in trigger finger – preliminary results 2'
Damian Sutter (Switzerland), A. Treier, E. Vögelin
- 1194 17:58 6' Biomechanical Analysis of Thumb Ulnar Collateral Ligament Tear Kinematics 2'
Steven Shin (United States of America), C. Lin, N. Patel, Y. Itami, M. McGarry, T. Lee
- 24 18:06 6' Biomechanical testing of the transosseous fixation of the distal radioulnar ligament 2'
Christian Spies (Germany), J. Oppermann, L. Müller, M. Langer, P. Hahn, F. Unglaub, A. Niehoff
- 50 18:14 6' The effectiveness of engineered miRNAs targeting cyclooxygenases on reducing adhesions and improving strengths of healing flexor tendons 2'
Youlang Zhou (China), Q. Yang, S. Xing, L. Zhang, J. Tang
- 51 18:22 6' Nanoparticles-coated sutures to provide sustained delivery of growth factors significantly increased tendon healing strengths at multiple time-points 2'
Youlang Zhou (China), Q. Yang, Y. Yian, L. Zhang, S. Xing, J. Tang

16:30–17:30 **PS97 Avascular Necrosis** A5

Chair: Michael Boland (New Zealand), Manuel Llusa (Spain), Stefano Galli (Italy)

Q&A

- | | | | | |
|------|-------|----|--|----|
| 1533 | 16:30 | 6' | Surgical Anatomy of Medial Femoral Based Vascularized Bone Graft Arterial Pedicle
<i>Nicholas Pulos (United States of America), A. Bishop, A. Shin</i> | 2' |
| 1072 | 16:38 | 6' | Vascularized bone graft (VBG) from distal radius in the treatment of scaphoid nonunions associated to proximal pole osteonecrosis
<i>Stefano Galli (Italy), C. Bertoli</i> | 2' |
| 661 | 16:46 | 6' | 3D finite elements study of stresses in the wrist and effect of different osteotomies used in Kienböck's disease.
<i>Emmanuel Camus (France), A. Aimar, L. van Overstraeten, F. Schuind, B. Innocenti</i> | 2' |
| 181 | 16:54 | 6' | Histopathology findings of the lunate in stage III Kienböck's disease
<i>Ge Xiong (China)</i> | 2' |
| 1443 | 17:02 | 6' | Pattern of arthritis noted during the surgery for stage 3 B Keinbock's disease basis for classification & its clinical implication
<i>Praveen Bhardwaj (India)</i> | 2' |
| 1112 | 17:10 | 6' | A new combined treatment for Kienböck's disease: bone leveling procedure with bone marrow mesenchymal stem cell administration
<i>Ireneusz Walaszek (Poland), A. Dabek-Szwajlik, E. Gawrych, J. Rajewska-Majchrzak, M. Parczewski, K. Gizewska-Kacprzak</i> | 2' |
| 533 | 17:18 | 6' | Long-term follow-up of partial intercarpal arthrodesis after excision of the lunate for advanced Kienböck disease
<i>Katsumi Takase (Japan), K. Yamamoto</i> | 2' |
| 263 | 17:26 | 6' | Long-term (5-15 years) clinical outcome after titanium lunate arthroplasty for Kienböck's disease
<i>Martti Vastamäki (Finland), T. Viljakka, K. Tallroth</i> | 2' |

17:30–18:30 **PS130 Panel: Avascular Necrosis** A5

Chair: Emmanuel Camus (France), Karlheinz Kalb (Germany), David Lichtman (United States of America)

Q&A

- | | | | | |
|------|-------|----|--|----|
| 4044 | 17:30 | 6' | Kienböck disease – a lifetime experience
<i>David Lichtman (United States of America)</i> | 0' |
| 4045 | 17:36 | 6' | Vascular anatomy of the lunate bone
<i>Claudia Lamas-Gomez (Spain)</i> | 0' |
| 4046 | 17:42 | 6' | Modern advanced Imaging in Kienböck's disease
<i>Rainer Schmitt (Germany)</i> | 0' |
| 4047 | 17:48 | 6' | Long time experience with core decompression
<i>Pablo De Carli (Argentina)</i> | 0' |

Scientific Programme – Thursday

4048	17:54	6'	Age related peculiarities and value of non revascularising procedures <i>Karlheinz Kalb (Germany)</i>	0'
4049	18:00	6'	Value of revascularising operations in Kienböck's disease <i>Rohit Arora (Austria)</i>	0'
4050	18:06	6'	Therapeutic algorithm <i>Gregory Bain (Australia)</i>	0'
	18:12	0'	Discussion	18'

16:30–17:20 **PS65 CMC Prosthesis** **A8**

Chair: Mohssen Hakimi (Germany), David Newington (United Kingdom), Michael Papaloizos (Switzerland)

Q&A

698	16:30	6'	Ideal cup position in trapeziometacarpal joint arthroplasty: a biomechanical cadaver study <i>Annelien Brauns (Belgium), P. Caekebeke, J. Duerinckx</i>	2'
1562	16:38	6'	Pyrocarbon disc interposition for CMC thumb joint osteoarthritis; Difference in use of the FCR or APL tendon? <i>Cecile van Laarhoven (Netherlands), M. van Heijl, A. Schuurman, B. van der Heijden</i>	2'
199	16:46	6'	Trapeziometacarpal and scapho-trapezoid-trapezoidal pyrocarbon “burger arthroplasty” for early peritrapezial osteoarthritis <i>Camilo Chaves (France), P. Bellemere</i>	2'
538	16:54	6'	Risk factors and outcomes of revision trapeziometacarpal arthroplasty <i>Simo Mattila (Finland), E. Waris</i>	2'
464	17:02	6'	Revision of trapeziometacarpal prosthesis by replacement with another prosthesis: a report of 8 cases. <i>Gero Meyer zu Reckendorf (France), J. Rouzaud</i>	2'
296	17:10	6'	Denervation of the thumb carpometacarpal joint in the case of osteoarthritis: results of a controversial treatment option <i>Rebekka Rath (Germany), C. Ampofo, W. Konur, T. Del Gaudio, M. Haerle</i>	2'

17:20–18:30 **PS79 Panel: All around CMC** **A8**

Chair: Martin Richter (Germany), Bruno Lussiez (Monaco), Marco Rizzo (United States of America)

Q&A

4130	17:20	6'	Suspension/Interposition or not? – Against <i>Tim Davis (United Kingdom)</i>	0'
4131	17:26	6'	Suspension/Interposition or not? – Pro <i>Mark Ross (Australia)</i>	0'
	17:32	0'	Discussion	8'
4068	17:40	6'	Dorsoradial Capsulodesis for Stage I Trapezia-Metacarpal Arthrosis <i>Ghazi Rayan (United States of America)</i>	0'

Scientific Programme – Thursday

4132	17:46	6'	Arthroscopic resection for all patients <i>Tyson Cobb (United States of America)</i>	0'
216	17:52	6'	Addition-subtraction osteotomy with ligamentoplasty for symptomatic trapezial dysplasia with metacarpal instability: a 10-year follow-up. <i>Iwein Piepers (Belgium), J. Goubau, G. Thuysbaert</i>	0'
4133	17:58	6'	Prosthesis CMC-I-joint for all younger Patients? <i>Bruno Lussiez (Monaco)</i>	0'
4134	18:04	6'	Salvage Procedures <i>Vincent Rod Hentz (United States of America)</i>	0'
	18:10	0'	Panel Discussion	22'

16:30–18:30 PT21 Anatomy M1-3

Chair: *Ingela Henningsen (Germany)*

Q&A

9471	16:30	30'	The extrinsic flexor muscles of the fingers <i>Ton A. R. Schreuders (Netherlands)</i>	0'
9472	17:00	30'	Anatomical Variations of the Extrinsic Extensor Tendons of the Hand. <i>Patricia McKee (Canada)</i>	0'
9473	17:30	30'	A Quick Deep Dive into the Functional Anatomy of the Dorsal Apparatus. <i>Judy Colditz (United States of America)</i>	0'
9474	18:00	30'	biomechanic of the wrist and DRUG <i>Wolfgang Hintringer (Austria)</i>	0'

16:30–18:30 PT15 Innovation in Therapy and Surgery for both Traumatic and Perinatal Brachial Plexus Palsy M4+5

Chair: *James Northcutt II (United States of America), Daniela Neye (Germany)*

Q&A

9429	16:30	22'	Bionic Reconstruction of the Upper Extremity: Surgical/Therapeutic Approach <i>Oskar Aszmann (Austria)</i>	0'
9430	16:52	22'	Bionic Reconstruction of the Upper Extremity: Surgical/Therapeutic Approach <i>Agnes Sturma (Austria)</i>	0'
9431	17:14	22'	Surgical Treatment of Brachial Plexus Birth Injury Today and Tomorrow <i>Yrjana Nietosvaara (Finland)</i>	0'
9432	17:36	22'	Equipping Caregivers of Infants with Perinatal Brachial Plexus Palsy: Impact of a Home Exercise Program (HEP) Simulation Model <i>James Northcutt II (United States of America)</i>	0'
9433	17:58	17'	Applying Project-based Design and Real-world Challenges to Develop Therapeutic Solutions <i>Matthew Wettergreen (United States of America)</i>	0'
	18:15	0'	Q&A	15'

16:30–18:00 **PT30 Neuropathies and nerve injuries** **M6+7**

Chair: Saara Raatikainen (Finland), Luzia Achatz (Germany)

Q&A

- 9493 **16:30** 15' Unusual Compression Neuropathies of the Forearm: Pronator Syndrome and Radial Tunnel Syndrome 0'
William Ericson (United States of America)
- 9132 **16:45** 15' Evaluation and Treatment of Chemotherapy-Induced Peripheral Neuropathy 0'
Cynthia Cooper (United States of America)
- 9121 **17:00** 7' Using Carpal Tunnel Questionnaire in Clinical Practice: An Update on Measurement Properties 0'
Saurabh Mehta (United States of America), G. Weinstock-Zlotnick
- 9105 **17:07** 7' Changing diagnostic concepts of carpal tunnel syndrome in powerlifting athletes with disabilities. 0'
Carlos Henrique Fernandes (Brazil), L. Miyamoto Meirelles, B. Ejnsman, M. Cohen, J. Gomes dos Santos
- 9155 **17:14** 7' Return to employment after carpal tunnel release (REACTS): the patient perspective 0'
Lisa Newington (United Kingdom), C. Brooks, D. Warwick, J. Adams, K. Walker-Bone
- 9082 **17:21** 7' Sensory processing patterns in adults with median or ulnar nerve injuries 0'
Pernilla Vikström (Sweden), A. Björkman, I. Carlsson, A. Olsson, B. Rosen
- 9264 **17:28** 7' Determination of the Activities Affected Due to Cold Intolerance After Peripheral Nerve Injuries 0'
Özge Buket Cesim (Turkey), C. Öksüz
- 9230 **17:35** 7' Dellon's modification of Moberg's pick-up test – Euro version – with standardized test protocol 0'
Marisa Nikkonen (Finland), M. Arell-Sundberg
- 9127 **17:42** 7' Heat remedies and woolen mittens extensively used by cold hypersensitive persons 7 years after hand injuries 0'
Tone Vaksvik (Norway), M. Rokkum, I. Holm
- 17:49** 0' Q&A 10'

16:30–17:30 **PT24 Free Paper Session III** **M8**

Chair: Nicola Goldsmith (United Kingdom)

Q&A

- 9185 **16:30** 8' Outcome of Non-surgical treatment for symptomatic Thumb Carpometacarpal Instability in Daily Practice: A Prospective Cohort Study 0'
Robbert Wouters (Netherlands), H. Slijper, L. Esteban Lopez, R. Selles
- 9236 **16:38** 8' Does laser therapy improve pain or pinch strength for thumb carpometacarpal joint osteoarthritis as an isolated treatment? A randomized controlled trial. 0'
Raquel Cantero-Tellez (Spain), V. Kristin, J. Villafane, I. Medina Porqueres

Scientific Programme – Thursday

9025	16:46	8'	Can we predict the result 3 years after treatment with collagenase injections for Dupuytren disease? <i>Anna Lauritzson (Sweden), I. Atroshi, J. Nordenskjöld, A. Akesson</i>	0'
9055	16:54	8'	Methods and Outcomes of Hand Therapy in Dupuytren's disease <i>Sonja Pelzmann (Austria), E. Schweng, T. Stamm</i>	0'
9131	17:02	8'	Long-term Implications of Breast Cancer on Upper Extremity Functioning, Participation and Perceived Quality of Life <i>Danit Langer (Israel), H. Magen, A. Bar-Haim Erez</i>	0'
9034	17:10	8'	Office Ergonomics for the Hand Therapist: Challenges and Evidence for practice application from the clinic. <i>Susan Emerson (United States of America)</i>	0'
9287	17:18	8'	DETERMINATION OF PLAYING-RELATED POSTURAL PROBLEMS IN GUITAR STUDENTS <i>Elif Cimilli (Turkey), F. Urganioğlu, E. Temizkan, B. Akel</i>	0'
	17:26	0'	Q&A	4'

17:30–18:30 PT16 Rheumatoid Arthritis

M8

Chair: *Anne Wajon (Australia), Annette Kark (Germany)*

Q&A

9437	17:30	10'	Juvenile idiopathic arthritis-distinctive features of chronic arthritis of the growing skeleton <i>Tobias Schwarz (Germany)</i>	0'
9435	17:40	10'	Treatment of JIA – A Family Affair <i>Ruth Koch (Germany)</i>	0'
9223	17:50	10'	A proof-of-concept study of the online version of an evidence-based hand exercise programme for people with rheumatoid arthritis <i>Esther Williamson (United Kingdom), C. Srikesavan, J. Thompson, J. Adams, S. Lamb</i>	0'
9434	18:00	10'	Conservative management of carpometacarpal osteoarthritis <i>Anne Wajon (Australia)</i>	0'
9436	18:10	10'	Postoperative treatment of MCP and PIP arthroplasties <i>Ulla Jörn Good (Switzerland)</i>	0'
	18:20	0'	Panel Discussion	10'

Scientific Programme – Friday, 21 June 2019

	A6-7	A1	A2	A3	A4	A5	
7:00	Nerve	Elbow and Forearm	Congenital	Tumor	Experimental		
7:30							
8:00	Nerve	Elbow and Forearm	Congenital	Tumor	Experimental	Extensor Tendons	
8:30							
9:00							
9:30							
10:00	Coffee Break – Visit of Industry and ePoster Exhibition						
10:30	Nerve	Elbow and Forearm	Congenital	Tumor	Nerve Experimental	DRUJ	
11:00				Radius Fracture			
11:30							
12:00							
12:30	Coffee Break – Visit of Industry and ePoster Exhibition						
13:00							
13:30	Nerve	Elbow and Forearm	Congenital	Radius Fracture	Experimental	DRUJ	
14:00							
14:30							
15:00							
15:30	Nerve	Elbow and Forearm	Carpus Fracture	Radius Fracture	Experimental		
16:00							
16:30	Closing Ceremony Surgery						

Scientific Programme – Friday, 21 June 2019

	A8	M1–3	M4–5	M6–7	M8	
	Scaphoid and more					7:00
						7:30
	DRUJ	Driving Performance	Wrist Palpation			8:00
		Free Paper Session IV	ECHT			9:00
Coffee Break – Visit of Industry and ePoster Exhibition						10:00
	Technology in Hand Rehabilitation					10:30
						11:00
						11:30
						12:00
Coffee Break – Visit of Industry and ePoster Exhibition						12:30
	Closing Ceremony Therapy					13:30
						14:00
						14:30
						15:00
						15:30
						16:00
						16:30

Please find the detailed Congress Programme in the App



or as PDF-file on the website



Scientific Programme – Friday

07:00–08:00 PS80 Nerve and Muscle Transfers 1

A6-7

Chair: *Husam Basheer (Kuwait), Thomas Giesen (Switzerland), Inga Langner (Germany)*

Q&A

- 850 07:00 6' Long head of triceps transfer to gain elbow flexion in 25 patients 2'
Atakan Aydin (Turkey), O. Berkoz, Z. Hosbay, S. Ozkan
- 1792 07:08 6' Transfer of the trapezium muscle for external shoulder rotation gain in patients with brachial plexus injuries 2'
Samuel Ribak (Brazil), A. Tietzmann, H. Hirata, G. Mohr, M. Dreon Gomes
- 1431 07:16 6' Upper trapezius to triceps transfer a novel technique for restoration of elbow extension in patients with birth brachial plexus palsy 2'
Praveen Bhardwaj (India)
- 758 07:24 6' Exploring the Axillary Nerve through the Deltopectoral and Axillary approaches: Is there a true „Blind Spot“? 2'
Alfonso Perez (United States of America), S. Wolfe, R. Jethanandani, B. Mahmood, S. Lee
- 214 07:32 6' Endoscopic Assisted Exploration of the Axillary Nerve through a Posterior Open Approach: first clinical experience 2'
Andres A. Maldonado (Germany), R. Spinner, M. Sauerbier, F. Neubrech
- 191 07:40 6' Suspension of the humerus to the acromion provides stability to the shoulder following a brachial plexus palsy 2'
Rudolf Rosenauer (Austria), H. Millesi, R. Schmidhammer
- 650 07:48 6' Can we make tendon transfers shorter? Biomechanical comparison of different suture techniques 2'
Katalin Muraközy (Hungary)

08:00–10:00 PS41 Nerve and Muscle Transfers 2

A6-7

Chair: *Joaquim Casanas (Spain), Scott Lawrence Levin (United States of America), Wendong Xu (China)*

Q&A

- 20 08:00 6' Free Gracilis Muscle Transfers Compared with Non-Free Muscle Transfer for Elbow Flexion Reanimation: A Meta-Analysis 2'
Steven Koehler (United States of America), J. Newman, E. Kuehn, N. Shah
- 1103 08:08 6' Use of reverse end-to-side suture to create a supercharge in spinal accessory nerve transfer to suprascapular nerve 2'
Joaquim Casanas (Spain), M. Llusa, I. Fernandez Conejero, R. Morro-Marti
- 1440 08:16 6' Brachioradialis to Extensor carpi ulnaris transfer to address the radial deviation deformity in posterior interosseous nerve palsy 2'
Praveen Bhardwaj (India)
- 1251 08:24 6' Median Nerve Motor Branch Transfer for Treatment of Severe Cubital Tunnel Syndrome 2'
Li Wang (China), X. Shao, Z. Zhang, L. Lv, W. Duan, F. Wang

Scientific Programme – Friday

- 1269 08:32 6' Simultaneous Multiple Long Sural Nerve Cable Graft with Saphenou
s Vein Graft and Staged Tendon Transfer for Brachial Plexus Injury 2'
*Che Ho Lee (South Korea [ROK]), Y. Lee, H. Seok, J. Kim, Y. Lee, Y. Kim,
Y. Chae, G. Baek*
- 1006 08:40 6' The Neurophysiology of Peripheral Nerve Transfers 2'
Konstantin Bergmeister (Austria), M. Aman, O. Aszmann
- 1937 08:48 6' How to deal with Selective Nerve Transfers – An Animal Study 2'
Matthias Sporer (Austria), M. Aman, D. Depisch, O. Aszmann, B. Podesser
- 1628 08:56 6' Nerve transfer for recovery of protective sensitivity in the ulnar aspect
of the hand. 2'
Aida Garcia (Colombia)
- 1627 09:04 6' Nerve transfer for recovery of protective sensitivity in the radial aspect
of the hand. 2'
Aida Garcia (Colombia)
- 1639 09:12 6' Very distal sensory nerve transfers in high median nerve lesions 2'
Chuanjun Yi (China), Y. Zhu, C. Hou
- 1720 09:20 6' Median-to-radial nerve transfer – our experiences 2'
Chuanjun Yi (China), Y. Zhu, C. Hou
- 512 09:28 6' Targeted Muscle Reinnervation at the Time of Amputation Reduces Pain
Severity and Behavior in Upper Extremity Amputations 2'
*Andrew O'Brien (United States of America), S. Jordan, J. West, G. Sisk,
S. Schulz, J. Mayerson, T. Scharschmidt, G. Dumanian, I. Valerio*
- 1551 09:36 6' Treatment for iatrogenic spinal accessory nerve injury by a part of ipsilateral
posterior C7 root transfer 2'
Yun-Dong Shen (China), W. Xu
- 1107 09:44 6' Oberlin technique assisted with intraoperative nerve recording 2'
Joaquim Casanas (Spain), M. Llusà, I. Fernandez Conejero, R. Morro-Martí

07:00–08:00 PS87 Elbow and Forearm: Epicondylitis – Cubital Tunnel Syndrome 1

A1

*Chair: Bernhard Lukas (Germany), Lars Dahlin (Sweden),
Joo-Yup Lee (South Korea)*

Q&A

- 631 07:00 6' Surgery for cubital tunnel syndrome in patients with diabetes –
a prospective study of patient reported outcome measurements using
national quality registries 2'
*Malin Zimmerman (Sweden), I. Anker, E. Nyman, M. Arner, A. Svensson,
L. Dahlin*
- 1297 07:08 6' Patient characteristics in cubital tunnel syndrome at a referral centre and
predictive factors for outcome of simple decompression versus
subcutaneous transposition of the ulnar nerve 2'
Erika Nyman (Sweden), A. Giöstad

Scientific Programme – Friday

- 825 07:16 6' In Idiopathic Cubital Tunnel Syndrome, Ulnar Nerve Length and Instability Can Be Reduced by Repairing Osborne's Ligament after Simple Decompression 2'
Sang Ho Kwak (South Korea [ROK]), J. Bae
- 1234 07:24 6' Minimal endoscopic release procedure of ulnar nerve in the cubital tunnel 2'
Dawid Mrozik (Poland), A. Jackiewicz
- 1247 07:32 6' Short-term results of Revision Cubital Tunnel Release Treated With Neurolysis and Procine Submucosa Extracellular Matrix 2'
RaviKanth Mallina (United Kingdom), P. Jordaan, T. Chaudhry, D. Power
- 255 07:40 6' Three-dimensional MRI-CT fusion images of osteochondritis dissecans of the elbow: A novel technique for preoperative evaluation and surgical planning 2'
Sho Kohyama (Japan), Y. Nishiura, Y. Hara, T. Ogawa, A. Ikumi, E. Okano, M. Yamazaki
- 1076 07:48 6' Bone Grafting for the Correction of Nonunion or Malunion of Long Bones in the Upper Extremity: A Systematic Review 2'
Sonu Jain (United States of America), T. France, Z. Diltz

08:00–09:15 PS88 Elbow and Forearm: Epicondylitis – Cubital Tunnel Syndrome 2

A1

Chair: Lee Osterman (United States of America), Ruby Grewal (Canada), Graham King (Canada)

Q&A

- 787 08:00 6' Long Term Outcomes of Medial Epicondylectomies 2'
Libby J Anderson (Australia), M. Ross
- 1919 08:08 6' A Novel Technique for the Surgical Management of Chronic Lateral Epicondylitis 2'
Abhijeet Wahegaonkar (India), S. Sanghavi, S. Mane, A. Bansode, C. Karande Patil
- 297 08:16 6' First Clinical Experience with a Novel Injectable rhCollagen scaffold combined with Autologous Platelet-Rich Plasma for the Treatment of Lateral Epicondylar Tendinopathy (Tennis Elbow) 2'
Uri Farkash (Israel), E. Avisar, I. Volk, O. Slevin, N. Shohat, M. El Haj, E. Dolev, E. Ashraf, S. Luria
- 712 08:24 6' Mini-operative treatment of tennis elbow using bipolar radio-frequency 2'
Dawid Mrozik (Poland), A. Jackiewicz
- 989 08:32 6' Factors associated with operative treatment of enthesopathy of the extensor carpi radialis brevis origin 2'
Amir Reza Kachooei (Iran), M. Talei-Khoei, D. Ring
- 332 08:40 6' Magnetic Resonance Imaging Correlate Clinical Features of Medial Epicondylitis 2'
Young Ju Chae (South Korea [ROK]), C. Park, C. Lee, Y. Kim, S. Kim, H. Gong, K. Bae, J. Kim, G. Baek
- 868 08:48 6' Radiofrequency Microtenotomy Treatment of Lateral Epicondylitis 2'
William Seitz (United States of America)

Scientific Programme – Friday

- 1161 08:56 6' Open treatment of the recalcitrant lateral epicondylitis: Clinical outcome and postoperative ultrasonographic change of the ECRB tendon status 2'
Sang-Eun Park (South Korea [ROK]), E. Kim
- 1089 09:04 6' Therapeutic approach for ulnar nerve entrapment in performing musicians 2'
Adriana Pemoff (Argentina), C. Torre, H. Blanchetiere, S. Lett, I. Gomez Avellaneda, F. Coscueta

09:15–10:00 PS89 Panel: What the Hand Surgeon should know about the Elbow I

A1

Chair: William Seitz (United States of America), Abhijeet Wahegaonkar (India), Karl-Josef Prommersberger (Germany)

Q&A

- 4123 09:15 10' Cubital tunnel syndrome: endoscopic release without/with transposition, in situ decompression, transposition? 0'
Ruby Grewal (Canada)
- 4124 09:25 10' Epicondylitis humeri lateralis: What surgery, if any? 0'
Graham King (Canada)
- 4125 09:35 10' Epicondylitis humeri medialis: What surgery, if any? 0'
Lee Osterman (United States of America)
- 09:45 0' Discussion 14'

07:00–08:00 PS90 Congenital and Pediatric Trauma Short Papers

A2

Chair: Wiebke Hülsemann (Germany), Brid Crowley (United Kingdom)

Q&A

- 1238 07:00 3' Web creep control with a novel orthosis 1'
Qinyuan Yu (China), B. Wang, T. Zhang, G. Huang, Z. Li, T. Wang
- 1035 07:04 3' Development of a Mobile App Based on the Oberg Manske Tonkin (OMT) classification to increase its utilization in clinical practice 1'
Wee Leon Lam (United Kingdom), L. Dingle, H. Tan, B. Charayaphan, W. Lam, M. Davey, D. Chew
- 384 07:08 3' How Important is the Understanding of Embryology for Parents of Children Born with Congenital Hand Differences? 1'
Andrew Clelland (United Kingdom), O. Duncan, W. Lam
- 1052 07:12 3' Reconstruction of fingertip amputations in children with composite autograft and semi-occlusive dressing: CASOD, new technique 1'
Manuel Mendez (Chile), D. Aguirre, M. Mendez
- 917 07:16 3' Variation Amongst Pediatric Orthopedic Surgeons in the Use of Pre-operative Antibiotics in Percutaneous Pinning Procedures of the Upper Extremity 1'
Joshua Abzug (United States of America), A. Case, J. Ty, A. Chu, C. Ho, A. Bauer
- 700 07:20 3' Morphologic characteristic of the first web space in congenial thumb duplication in infants 1'
Liying Sun (China), W. Tian, Y. Guo, Y. Yang, S. Chen, W. Zhong

Scientific Programme – Friday

- 1510 07:24 3' Radial Polydactyly: The not so innocent floating radial duplicate 1'
Lisa Ng (United Kingdom), S. Stevenson, J. Maraka, H. Stark, V. Lockwood, R. Diogo, B. Crowley
- 37 07:28 3' Surgical strategy for angular deformity correction in thumb polydactyly reconstruction 1'
Pravit Kitidumrongsook (Thailand), P. Luangjarmekorn
- 1058 07:32 3' Open wedge phalanx osteotomy for correction of Wassel type IV-D thumb duplication with zigzag deformity 1'
Jianghai Chen (China), F. Ai, K. Wang, Y. Zhang
- 702 07:36 3' Outcome of 32 pollicisations for thumb hypoplasia or aplasia during the period 1987-2016' 1'
Ida Neergard Sletten (Norway), M. Rokkum, I. Bolstad, A. Stavenes, M. Winge
- 1042 07:40 3' The classification and treatment of the polysyndactyly of middle finger 1'
Xiaofei Tian (China)
- 103 07:44 3' The surgical treatment strategy of congenital clasped thumb according to pathological characteristics 1'
Hao Yu (China), Y. Wang, X. Zeng
- 1414 07:48 3' Modified Bilhaut-Cloquet procedure: meticulous nail plasty, bone reconstruction and radial side incision 1'
Weiyang Gao (China), J. Ding, A. Wang, L. Wang
- 1410 07:52 3' Bilhaut-Cloquet procedure: the type and aesthetic evaluation of nail deformity 1'
Weiyang Gao (China), J. Ding, A. Wang, L. Wang, Z. Zhou

08:00–10:00 PS91 Congenital – Growth Disturbances, Trauma and Sequelae and more

A2

Chair: *Richard Lawson (Australia), Mona Winge (Norway), Terry Light (United States of America)*

Q&A

- 1619 08:00 6' A retrospective study of radial dome osteotomy and Vikers ligament release in Madelung's deformity 2'
R. Adani, S. Sartini, A. Leti Acciaro
- 1417 08:08 6' Madelung's deformity – long-term results of ulnopalmar correction osteotomies in 12 wrists 2'
Martin Franz Langer (Germany), B. Wieskötter, S. Oeckenpöhler, S. Breiter
- 1730 08:16 6' Corrective osteotomy at the distal radius without bone graft for Madelung deformity 2'
Sabine Smieja (Germany), R. Wolters, R. Schandl, H. Krimmer, R. Schandl
- 1724 08:24 6' Treatment of length discrepancy after posttraumatic radial growth arrest 2'
Florian Goetz (Germany), J. van Schoonhoven, W. Hülsemann, H. Krimmer

Scientific Programme – Friday

242	08:32	6'	Treatment of Prolonged Chronic Monteggia Lesion by Corrective Osteotomy of Ulna with Radial Shortening <i>Hiroo Kimura (Japan), A. Seki, N. Inaba, K. Sato, S. Takayama</i>	2'
1086	08:40	6'	Free flaps reconstruction in pediatric patients for limb defects <i>Raquel Bernardelli Iamaguchi (Brazil), G. Bersani da Silva, A. Baik Cho, T. Hsiang Wei, M. Rosa de Rezende, R. Mattar Jr.</i>	2'
1985	08:48	6'	The turner scientific research institute for children's orthopedics <i>Sergei Goliana (Russian Federation)</i>	2'
361	08:56	6'	Bilateral Elbow Extension Contracture in a Child with Arthrogryposis A VERY RARE OCCURRENCE <i>Neeraj Godara (India)</i>	2'
1573	09:04	6'	Pediatric fingertip replantation: minimum 10-year follow-up <i>Feng Zhu (China), H. Chen</i>	2'
519	09:12	6'	Nailbed regeneration in Pediatric Patients <i>Jefferson Braga Silva (Brazil), A. Gros, J. Zubaran, P. Piccinini</i>	2'
865	09:20	6'	Epiphyseal stress fracture of the base of the middle phalanx in adolescent sport climbers <i>Andreas Schweizer (Switzerland), A. Scheibler, N. Bärtschi</i>	2'
566	09:28	6'	Chronic post traumatic triangular fibrocartilage complex (TFCC) lesions in children and adolescents <i>Sandra Pfanner (Italy), A. Poggetti, M. Zucchini Maura, M. Ceruso</i>	2'
1591	09:36	6'	Management of scaphoid fractures in the skeletally immature age 10: Case series and literature review test <i>Rachana Tataria (United Kingdom), C. de Courcey, J. Ting, T. Yoko, S. Kaur, A. Jester, S. Al-Ani, K. Johnson, K. Oestreich</i>	2'

07:00–08:00 PS102 Tumor Short Papers

A3

Chair: Judit Hetthessy (Hungary), Anne De Leo (United Kingdom), Michael Millrose (Germany)

Q&A

1965	07:00	3'	Acquired vascular malformation on fingertips: a report of three cases <i>Amal Sharaf (United Kingdom), S. Jivan</i>	1'
412	07:04	3'	Recurrent Masson's Tumor of the finger: A Case Report <i>Hannah Ng (Singapore), B. Sio, A. Adham, V. Rajaratnam</i>	1'
855	07:08	3'	Radius metastasis: an unusual form of presentation <i>Luisa Vital (Portugal), V. Vidinha, M. Cunha, P. Negrao, I. Pinto, A. Sousa</i>	1'
1383	07:12	3'	Osteoid osteoma of the hand and wrist – a report of 5 cases <i>Judit Hetthessy (Hungary), N. Szakacs, J. Kiss, L. Balog</i>	1'
258	07:16	3'	Giant cell tumors of the tendon sheaths in the hand <i>Kenzo Fujii (Japan)</i>	1'
1912	07:20	3'	Onychomatricoma in the hand – three cases <i>Sarah Breiter (Germany), M. Langer, S. Oeckenpöhler, B. Wieskötter, J. Ueberberg</i>	1'

Scientific Programme – Friday

829	07:24	3'	A Significant Neuralgia caused by An Epidermoid Cyst: A Case Report <i>Hirofumi Imai (Japan), M. Takahara, D. Ota, M. Kondo</i>	1'
1817	07:28	3'	Case Report: Lipofibromatous hamartoma of the digital branches of median nerve <i>Amal Sharaf (United Kingdom), D. Mather</i>	1'
1452	07:32	3'	Nerve Compression due to Benign Tumors or Ganglion Cysts in the Upper Limb-Case Series <i>Andreea Grosu-Bularda (Romania), L. Lazarescu, M. Popescu, R. Tomek-Enescu, A. Stoian, C. Vancea, S. Popescu, D. Vilciovu, I. Lascar</i>	1'
1993	07:36	3'	Case report pyogenic granuloma intravascular <i>Merida Victoria Choquin Sales (Guatemala), R. De Bedout, C. Moreno-Serrano, J. Bermudez, E. Pinilla</i>	1'
1936	07:40	3'	Solitary lesion of Molluscum contagiosum of the finger in an Immunocompetent Individual: A Case Report and review of literature. <i>Abhijeet Wahgaonkar (India), S. Mane, C. Karande Patil, A. Bansode, S. Sanghavi</i>	1'
1051	07:44	3'	An unusual lump in the hand: desmoplastic fibroblastoma <i>Rudo Madada-Nyakauru (United Kingdom), I. Grant</i>	1'
755	07:48	3'	Ganglions in the hand and wrist: a new clinical and surgical approach <i>Roberto Melendez (Colombia)</i>	1'
920	07:52	3'	Rare tumours in hand and forearm: a series of 18 cases. <i>Elena Delgado (Colombia), H. Laverde</i>	1'
1128	07:56	3'	Classification of distal finger tumours <i>Ali Cavit (Turkey), T. Kaleli, M. Mocan, S. Capkin</i>	1'

08:00–10:00 PS103 Tumor

A3

Chair: Marcus Lehnhardt (Germany), Gursel Leblebicioglu (Turkey), Thomas Hausner (Austria)

Q&A

504	08:00	6'	The diagnosis and treatment of aneurysmal bone cyst of the metacarpals and phalanges of the hand　 <i>Zhongzhe Li (China)</i>	2'
951	08:08	6'	Radioscapholunate Fusion following Resection of Giant Cell Tumours of the Distal Radius <i>Mark Puhaindran (Singapore), Y. Chin, S. Strike, D. Tan</i>	2'
1687	08:16	6'	Bizarre Parosteal Osteochondromatous Proliferation: a serie of cases. <i>Bruno Crepaldi (Australia), P. Maloney, O. Ou Yang, A. Berger, J. Thomas</i>	2'
1230	08:24	6'	Bone tumors of the upper extremities. A case series. <i>Konstantinos Tolis (Greece), E. Fandridis, F. Giannoulis, C. Eftychiadis, S. Spyridonos</i>	2'
1564	08:32	6'	Giant cell tumor of the tendon sheath on the digits – functional outcome in tumor recurrence <i>Laura Siegwart (Germany), V. Haug, C. Hirche, B. Bickert</i>	2'

Scientific Programme – Friday

- 1755 08:40 6' 10-year-follow-up after implantation of a custom made wrist prosthesis in a patient with giant cell tumor of the distal radius
Hans-Georg Damert (Germany), M. Kober 2'
- 1126 08:48 6' Histologic Analysis of the Nail Apparatus in Regard to Subungual Melanoma: Anatomical Study in 21 Cadavers
Byung Jun Kim (South Korea [ROK]), H. Kim, J. Hu, J. Kim, H. Yoo, N. Yu, S. Kwon 2'
- 1935 08:56 6' Subungual exostosis of the fingers
Johanna Ueberberg (Germany), B. Wieskötter, S. Oeckenpöhler, M. Langer 2'
- 1774 09:04 6' Pacinian neuromas and neurofibromas: an uncommon cause of pain in the hands and fingers. Literature review.
Isabella Fassola (Germany), K. Krüger, L. Wenzke, W. Ertel, S. Krasnici 2'
- 1405 09:12 6' Surgically Treated Brachial Plexus Tumours: the Oxford University Hospitals 20-Year Experience
Karishma Shah (United Kingdom), A. Moosa, R. Dolan, H. Giele 2'
- 1387 09:20 6' Upper Extremity Reconstruction Following Sarcoma Extirpation: A Case Series
Jason Hehr (United States of America), A. O'Brien, J. West, I. Valerio 2'
- 1287 09:28 6' Characteristics of hand and wrist benign fatty tumours. A study of 32 cases and literature review.
Guillaume Bacle (France), E. Marteau, G. De Pinieux, J. Laulan 2'
- 1277 09:36 6' A multinomial logistic regression analysis on characteristics of hand and wrist tumours: A multi-ethnic study
Pamela Chong Qin Yi (Singapore), A. Toh LiYu, S. Chung, A. Chin Yuan Hui, T. Hoi Agnes, M. Mannan Choudhury, D. Angus McGrouther 2'
- 1108 09:44 6' Squamous cell Carcinoma – „The most common Hand malignancy“
Christoph Tasch (Austria), E. Morandi, R. Zimmermann, E. Baur 2'
- 1407 09:52 6' Subcutaneous spread of squamous cell carcinoma in the digit in association with primary radiotherapy
Christopher Deutsch (United Kingdom), B. Jemec 2'

07:00–08:00 PS100 Experimental Short Papers

A4

Chair: *Thomas Pillukat (Germany), Daniel Kalbermatten (Switzerland), Roshanak Moradi (Iran)*

Q&A

- 670 07:00 3' Electrospun Plga Nanofibers on Collagen as a Nerve Conduit
Shalimar Abdullah (Malaysia), S. Khalid, M. Ng, H. Mohd Hafiah, I. Al-Fattah Yahaya 1'
- 1903 07:04 3' Inflammatory processes and elevated osteoclast activity chaperon atrophic non-union formation in a murine model.
B. Behr, S. Schmidt, C. Wallner, M. Dadras, M. Becerikli, M. Lehnhardt, Johannes Maximilian Wagner (Germany) 1'

Scientific Programme – Friday

- 1160 07:08 3' Evaluation of skin lesion healing in rats submitted to Integra treatment as a dermal substitute. 1'
- Rafael Saleme Alves (Brazil), E. Kenji Nakano, V. Do Vale, N. Ahmed Dsouki, J. Mora Veridiano, M. Akemi Sato*
- 1704 07:12 3' Delayed nerve repair: experimental treatment with chitosan tubes enriched by fresh skeletal muscle fibers 1'
- Alessandro Crosio (Italy), B. Fornasari, S. Geuna, B. Battiston, G. Ronchi, P. Tos*
- 1558 07:16 3' Validation of a Novel Rabbit Model of Compression Neuropathy in the Setting of Perineural Adhesion 1'
- Steven Koehler (United States of America), N. Shah, W. Hayes, W. Chin, J. Carter, A. Martins*
- 237 07:20 3' Application of a Porcine SIS Nerve Cap for Prevention of Neuromas and Associated Pain 1'
- Shahryar Tork (United States of America), J. Faleris, A. Engemann, E. DeVinney, I. Valerio*
- 406 07:24 3' Animal Experimental Assessment of Nerve Regeneration with a Processed Human Umbilical Vessel used as a Regeneration Chamber 1'
- Aude Griffart (France), L. Barnouin, L. Obert, L. Ardouin*
- 1881 07:28 3' Cell-loaded custom made fibrin glue nerve conduits optimize the repair of peripheral nerves in a sciatic nerve graft model in rats 1'
- Elias Volkmer (Germany), T. Holzbach, C. Krug, R. Giunta, J. Meyer, M. Saller*
- 1515 07:32 3' The stability of intra-articular distal radius fractures using volar locking plate with unicortical and bicortical screws 1'
- Antonio Tufi Neder Filho (Brazil), N. Mazzer, A. Macaedo, L. Bataglion, A. Shimano*
- 1037 07:36 3' Treatment of dorsal synovial ganglion of the wrist with percutaneous sclerotherapy using hypertonic glucose 1'
- Fernando Araujo Pires (Brazil), J. Gomes dos Santos, C. Fernandes, F. Faloppa, L. Nakachima*
- 779 07:40 3' Development of method for measuring the thumb pronation and palmar abduction angles during opposition movement using a three-axis gyroscope 1'
- Koji Fujita (Japan), T. Kuroiwa, T. Sasaki, A. Nimura, Y. Sugiura, A. Okawa*
- 1174 07:44 3' The Safety use of One-Per-Mil Tumescant Infiltration into Viable Skin Tissues that once Suffered from an Ischemic Insults 1'
- Eliza Nindita (Indonesia), T. Prasetyono*
- 1723 07:48 3' A Trial Comparing Pain during Local Tumescant Injection in Fingers using different Syringe-Needle Combinations 1'
- T. Prasetyono, Mohamad Rachadian Ramadan (Indonesia)*

Scientific Programme – Friday

- 313 07:52 3' The effects of Adipose derived stem cell on optimizing Achilles tendon repair in rat 1'
Mohammad Javad Fatemi (Iran), F. Khodaei, H. Salehi, T. Bagheri, M. Niazi, S. Hosseini

08:00–10:00 PS44 Experimental 1

A4

Chair: *Dominic Power (United Kingdom), Paul Werker (Netherlands), Peter Murray (United States of America)*

Q&A

- 1068 08:00 6' Investigation into the Complex and Co-ordinated Anatomy of Preaxial Polydactyly 2'
Julia Dong Hwa Oh (United Kingdom), Z. Sudderick, L. McTeir, W. Lam, M. Davey
- 1159 08:08 6' Characterization of human nail stem cells 2'
Xia Fang (China), T. Wang, G. Han, B. Wang
- 78 08:16 6' Single cell analysis of the fibrotic landscape in Dupuytren's Disease 2'
Thomas Layton (United Kingdom), D. Furniss, J. Nanchahal, F. McCann, L. Williams, M. Cabrita, M. Feldmann
- 492 08:24 6' Isolated limb perfusion beyond 24h – a potential avenue for global organ sharing, limb resuscitation and optimization 2'
Nicco Krezdorn (Germany), F. Macleod, S. Tasigiorgos, B. Kollar, E. Edelmann, B. Pomahac
- 205 08:32 6' Manufacture of PDA/ RGD coated graphene loaded PCL nanoscaffold via integration multilayered printing 2'
Cunyi Fan (China), Y. Qian
- 229 08:40 6' Visualizing the pharmacological delay effect of botulinum toxin A on the flap donors by the infrared thermography in a rat pedicled flap model 2'
Xu Gong (China)
- 807 08:48 6' Robust genetic diagnosis of split-hand/foot malformation by exome sequencing 2'
Gang Han (China), Z. Chen, L. Chen, R. Guo, W. Sun, B. Wang
- 1358 08:56 6' The Effects of Static Cold Storage, Pulsatile Hypothermic Perfusion, and Pulsatile Near-Normothermic Perfusion on the Metabolism and Function of Rat Hind Limb Allografts 2'
Kagan Ozer (United States of America), E. Gok, C. Kubiak, E. Guy, S. Kemp
- 230 09:04 6' Visualized identification of the maximal surgical delay effect in a rat flap model 2'
Xu Gong (China)
- 583 09:12 6' Ethnic differences in prevalence of Dupuytren disease can be explained by known genetic risk variants 2'
Sophie Riesmeijer (Netherlands), P. Werker, I. Nolte
- 953 09:20 6' Mutational spectrum and targeted therapy for isolated macrodactyly 2'
Hengqing Cui (China), G. Han, B. Wang

- 1504 09:28 6' Effects of Growth Hormone Therapy on Nerve Regeneration, Functional Recovery, and Allo-Immune Response in Vascularized Composite Allotransplantation 2'
Nicholas von Guionneau (United States of America), X. Zhou, P. Hanwright, N. Amin, J. Rath, C. Min, W. Lee, G. Brandacher, S. Tuffaha
- 411 09:36 6' Genotype-phenotype insights into familial polydactyly in Chinese people 2'
Gang Han (China), R. Guo, Z. Chen, L. Chen, W. Sun, B. Wang
- 391 09:44 6' Autoregulation of Lmx1b during limb development: A role in Nail-Patella Syndrome? 2'
Kerby Oberg (United States of America), E. Haro, C. Pira, M. Ros
- 1875 09:52 6' A Standardized Patient Education Video Program for Improvement of Post-operative Pain Management after Outpatient Upper Extremity Surgery 2'
Soleille Everest (United States of America), C. Mierisch, C. Mierisch, P. Apel, C. Bravo, H. Hagan, A. Capito, H. Dancea, A. Bell

08:00–10:00 **PT36 Extensor Tendon Management Zones III-VII of the fingers: Trends, Tips & Tricks, Thoughtful Interventions** A5

*Chair: Julianne Howell (United States of America),
Helena Layzell (Germany)*

- 08:00 5' Introduction 0' Q&A
- 9496 08:05 11' Return to functional hand use and work: Comparison between RM and CAM programs 0'
Shirley Collocott (New Zealand)
- 9495 08:16 11' Preliminary findings from the international ET survey 0'
Julianne Howell (United States of America)
- 9498 08:27 6' Practical Insights of ET therapy regime internal audit : Our experience of how to develop practice 0'
Chloë Pilbeam/Kirk (United Kingdom)
- 9497 08:33 6' Practical insights for design/implementation of clinical RCT 0'
Shirley Collocott (New Zealand)
- 9501 08:39 11' Relative motion flexion for ET zone 3 boutonniere deformity 0'
Wyndell Merritt (United States of America)
- 9500 08:50 8' RMF zone III/boutonniere ; practical tips & tricks: case report 0'
Amanda Higgins (Canada)
- 9503 08:58 8' Case report videos illustrating FDP quadriga effect with RMF 0'
Steve Henry (United States of America)
- 9504 09:06 8' Case report videos 0'
Donald Lalonde (Canada)
- 9499 09:14 8' Case report 0'
Chloë Pilbeam/Kirk (United Kingdom)
- 9502 09:22 8' Case report videos 0'
Wyndell Merritt (United States of America)

Scientific Programme – Friday

9494	09:30	6'	RME guidelines update for ET zones IV-VII <i>Julianne Howell (United States of America)</i>	0'
	09:36	0'	Panel Discussion	20'
07:00–08:00 PS119 Scaphoid and more – Short Papers				A8
Chair: <i>Martin Franz Langer (Germany), Piotr Czarnecki (Poland), Florian Lampert (Germany)</i>				Q&A
741	07:00	3'	Dynamic wrist radiographs in wrists with and without ganglion cysts <i>Nadine Hollevoet (Belgium), E. Beuckelaers</i>	1'
177	07:04	3'	Treatment of coronal fracture of the hamate with fixation of titanium miniplate crossing carpometacarpal joint <i>Yong Yang (China), G. Xiong, L. Sun, S. Chen, W. Tian</i>	1'
481	07:08	3'	A different perspective on the aetiology of hook of hamate fractures and the high association with other carpal fractures <i>Matthew Ricks (United Kingdom), Z. Al-Watter, D. Hargreaves</i>	1'
1982	07:12	3'	Fractures of the pisiform bone- is osteosynthesis useful? <i>Britta Wieskötter (Germany), M. Langer, S. Oeckenpöhler, S. Breiter, J. Ueberberg</i>	1'
1252	07:16	3'	Factors Associated with Surgeon Recommendation For Additional Cast Immobilization of a Nondisplaced Scaphoid Waist Fracture <i>Anne Eva Bulstra (Australia), T. Crijns, S. Janssen, G. Buijze, R. Jaarsma, D. Ring, M. Obdeijn, J. Doornberg</i>	1'
730	07:20	3'	Comparison of SCaphoid fracture osteosynthesis by MAGnesium-based headless Herbert screws with titanium Herbert screws: protocol for the randomized controlled SCAMAG clinical trial <i>Sören Könneker (Germany), K. Krockenberger, B. Brandewiede, P. Vogt, A. Ziegler, C. con Falck, M. Kirschner, C. Pieh</i>	1'
1721	07:24	3'	Bilateral bipartite carpal scaphoid: a case report and comparison with bilateral scaphoid nonunion found on incidental radiography. <i>Jung Eun Lee (South Korea [ROK])</i>	1'
478	07:28	3'	Midterm follow up of volar plate fixation for chronic unstable scaphoid nonunion <i>Phillip Schormans (Netherlands), J. Ten Bosch, M. Poeze, P. Hannemann</i>	1'
988	07:32	3'	Treatment of scaphoid nonunion by one, two headless compression screws or plate with or without Extracorporeal Shock Wave Therapy <i>Josef Jurkowitsch (Austria), S. Quadlbauer, C. Pezzei, T. Keuchel, T. Beer, T. Hausner, M. Leixnering</i>	1'
1338	07:36	3'	Factors affecting union rate when treating scaphoid nonunion using non-vascularized bone grafting with internal fixation: preliminary report <i>Jin Young Kim (South Korea [ROK]), S. Lee</i>	1'

- 999 07:40 3' Zaidenberg's pedicled vascularized bone-grafting for reconstruction of scaphoid-nonunions – effects and functional outcome in a series of 49 cases 1'
Ben Schacher (Germany), R. Böttcher, A. Vogel, A. Asmus, S. Kim, A. Eisenschenk, F. Eichenauer
- 1556 07:44 3' Outcomes of local bone graft and fixation of proximal pole scaphoid non-unions 1'
Chaitanya Mudgal (United States of America), K. Shoji

08:00–10:00 PS106 DRUJ Instability 1 A8

Chair: Maarten Van Nuffel (Belgium), Michael Schädel-Höpfner (Germany), Luis R. Scheker (United States of America)

Q&A

- 1483 08:00 6' 4D CT scans of the DRUJ – a novel method in identifying and describing instability 2'
Alistair Hunter (United Kingdom), D. Williams, K. Rajesparan
- 1873 08:08 6' Dynamic Distal Radioulnar Stabilization for Acute Triangular Fibrocartilage Complex Injury 2'
Samuel Pajares Cabanillas (Spain), N. Martinez Catalan
- 1389 08:16 6' Ligamentoplasty of the palmar ulnoradial ligament at the distal radioulnar joint by bone ligament transplant from the extensor retinaculum – technique and preliminary results 2'
Heinrich Tünnerhoff (Germany)
- 925 08:24 6' Preliminary Study Using A Synthetic Ligament in DRUJ reconstruction 2'
Shalimar Abdullah (Malaysia), L. Kesu Belani, M. Rashid, J. Sapuan
- 828 08:32 6' Functional outcomes of the Adams-Berger Ligament Reconstruction for the Distal Radioulnar Joint Instability in 95 Consecutive Cases 2'
Endre Soreide (United States of America), A. Kadar, J. Gillis, J. Khouri, R. Berger, S. Moran
- 852 08:40 6' New technique for reconstruction of DRUJ in chronic instability without arthrosis 2'
Marcella Rodrigues Costa (Brazil), G. Pacheco Martins Ferreira, H. Oliveira de Freitas Junior, W. Meira de Oliveira, U. Brum de Castro, M. Percoppe de Andrade
- 1476 08:48 6' The value of initial radiographic characteristics of distal radius fracture in prediction of associated lesion of triangular fibrocartilage complex 2'
Katerina Kasapinova (FYROM), V. Kamiloski
- 456 08:56 6' Comparison of conservative versus operative treatment of peripheral TFCC tear after acute distal radius fractures. 2'
Tae-Min Kim (South Korea [ROK]), S. Lee
- 1056 09:04 6' Role of the interosseous membrane and TFCC in distal radioulnar joint instability in Galeazzi fracture: Anatomical and biomechanical study 2'
Claudia Lamas-Gomez (Spain), A. Da Ponte-Prieto, D. Gutierrez-Medina, R. Morro-Marti, I. Gich-Saladich, M. Llusa-Perez

Scientific Programme – Friday

- 76 09:12 6' Corrective Osteotomies of Forearm Bones in Distal Radioulnar Joint Instability by Three-dimensional Analysis and Surgical Navigation 2'
Simon Roner (Switzerland), F. Carrillo, P. Frnstahl, L. Nagy, A. Schweizer
- 1447 09:20 6' An anatomical study of the ulnar footprint of the distal radio-ulnar ligaments in relation to the distal ulna and its role on the stability of the distal radio-ulnar joint following ulnar styloid fracture including the fovea 2'
Mauro Maniglio (Switzerland), C. Lin, I. Park, N. Patel, R. Flueckiger, M. McGarry, T. Lee, M. Kuenzler
- 1404 09:28 6' Biomechanical characterization of ulnar styloid fracture size for instability of the distal radio ulnar joint 2'
Mauro Maniglio (Switzerland), I. Park, W. Fraipont, R. Flueckiger, D. Wright, L. Bollinger, M. Zumstein, M. McGarry, T. Lee, M. Kuenzler
- 1451 09:36 6' Loading the pronator quadratus improves distal radio-ulnar joint stability in the setting of an ulnar styloid fracture 2'
Mauro Maniglio (Switzerland), I. Park, V. Truong, R. Flueckiger, D. Wright, L. Bollinger, M. Zumstein, M. McGarry, T. Lee, M. Kuenzler

08:00–08:45 PT32 Driving performance following a wrist fracture M1-3

Chair: *Monika Schfer (Germany), Susan Stinton (Australia)*

Q&A

- 9479 08:00 45' Driving performance following a wrist fracture 0'
Susan Stinton (Australia)

08:45–10:00 PT26 Free Paper Session IV M1-3

Q&A

- 9213 08:45 8' CLINIMETRICS IN HAND THERAPY: HAND ASSESSMENT RECOMMENDATIONS FOR THERAPY (HANDART), INCLUDING A EUROPEAN DELPHI STUDY 0'
Lucelle van de Ven-Stevens (Netherlands), M. Graff, A. Geurts
- 9040 08:53 8' How to Optimize Outcomes – Use the Bio-Occupational Orthotic Framework 0'
Patricia McKee (Canada), M. Eason Klatt, S. Hannah
- 9187 09:01 8' An approach to empower clients with Work Related Upper Extremity Disorders (WRUED) 0'
Barbara Aegler (Switzerland), J. Brki
- 9128 09:09 8' Shared decision making and the practice of community translation in presenting a pre-final Afrikaans (for the Western Cape) Disabilities of the Arm, Shoulder and Hand Questionnaire. 0'
Susan de Klerk (South Africa), C. Jerosch-Herold, H. Buchanan, L. van Niekerk
- 9167 09:17 8' Identification of problems with activity performance after hand-injuries using The Measure of Activity Performance of the Hand (MAP-Hand) 0'
Marte Baklund Storseth (Norway), B. Eriksen, L. Melum, T. Vaksvik

Scientific Programme – Friday

9088	09:25	8'	To immobilise or not? The influence of immobilisation after a wrist ganglion resection. <i>Veerle AHJ van Alebeek (Netherlands)</i>	0'
9015	09:33	8'	Mild SL instability treated with Proprioception and Neuromuscular control enhanced by taping <i>Saba Kamal (United States of America), S. Sharma</i>	0'
9302	09:41	8'	Early Active Vector Adjustable Skin Traction (EAVAST) for phalangeal fractures of the hand <i>Jason Fairclough (Australia), J. Lam, J. Diab, S. Wood, M. Dowd</i>	0'
9244	09:49	8'	The Lucerne cast – a game-changer not only in finger fracture treatment <i>Joachim Ganser (Switzerland)</i>	0'
	09:57	0'	Q&A	3'

08:00–09:00 TWS14 Around the wrist in 60 Minutes M4+5

Chair: *Annemieke Videler (Netherlands)*

09:00–10:00 TWS20 Presentation of the certification for european HT M4+5

Katleen Meeûs (Belgium)

10:00-10:30 Coffee Break

Visit of Industry and ePoster Exhibition

10:30–12:30 PS42 Nerve Transfers and Brachial Plexus A6-7

Chair: *Bruno Battiston (Italy), Atakan Aydin (Turkey),
Leila Harhaus (Germany)*

Q&A

1650	10:30	6'	Comparison between supercharged ulnar nerve repair by anterior interosseous nerve transfer and isolated ulnar nerve repair in proximal ulnar nerve injuries: A pilot study <i>Mohammed El Mahy (Egypt), I. Koriem, A. Atiyya, R. Diab</i>	2'
1849	10:38	6'	Anatomic distribution of the axillary nerve and its implications in the treatment of the paralytic shoulder <i>Alberto Rojas Vargas (Colombia), F. Suarez Romero, A. Garcia Gomez, D. Celeita Medina, S. Bocanegra, A. Arango Mejia, G. Gonzalez Tamara, A. Ramirez Jaramillo</i>	2'
1976	10:46	6'	Nerve transfers to the deltoid: Evolution of a surgical technique <i>Sunil Parthiban (United Kingdom), D. Power, D. Jimulia</i>	2'
1109	10:54	6'	Nerve transfer to restore thenar muscle in low median nerve palsy <i>R. Morro-Marti, J. Casanas, Manuel Llusa (Spain), I. Fernandez Conejero, D. Ortega</i>	2'
863	11:02	6'	Another neurotisation of n.axillaris <i>Margarita Kateva (Bulgaria), K. Angelov, I. Marcheva, D. Vrachanski, E. Apostolou, N. Simeonov</i>	2'

Scientific Programme – Friday

- 928 11:10 6' Transfer of contralateral C7 nerve to upper trunk via prespinal route for neuropathic pain after total brachial plexus avulsion: A novel and effective approach to relieving the intractable pain 2'
Zhonggen Dong (China), J. Wei, L. Liu, Z. Luo, P. Peng, X. Peng, C. Yin
- 360 11:18 6' Motor innervation pattern of C7 nerve root and clinical study of its reinnervation in BPAI 2'
Su Jiang (China), G. Wang, A. Yu, W. Xu
- 12 11:26 6' Is it necessary to use the entire root as donor when doing contralateral C7 nerve transferring to median nerve? 2'
Kaiming Gao (China), J. Lao
- 1175 11:34 6' Comparison between with or without axillary nerve neurotization for the management of upper brachial plexus palsy. 2'
Krishna Priya Das (Bangladesh)
- 682 11:42 6' The use of radial sensitive nerve graft in neurotization of musculocutaneous nerve for treatment of braquial plexus avulsions 2'
Paulo Randal Pires (Brazil), M. Rodrigues Costa, P. Randal Pires, G. Pacheco Martins Ferreira, R. Jose de Resende Santos
- 627 11:50 6' Outcomes of single versus double fascicular nerve transfers for restoration of elbow flexion in patients with brachial plexus injuries: a systematic review and meta-analysis 2'
Caroline Hundepool (Netherlands), D. Sneiders, L. Bulstra, W. Treling, S. Hovius, A. Shin
- 826 11:58 6' Analysis of Brachial plexus injury following median sternotomy in cardiac surgery. 2'
Ryo Okbayashi (Japan), S. Suzuki, T. Omura, T. Ogawa, K. Sugiura, Y. Matsuyama
- 681 12:06 6' Non-vascularized ulnar nerve graft reconstruction as an efficient treatment for brachial plexus paralysis 2'
Paulo Randal Pires (Brazil), M. Rodrigues Costa, P. Randal Pires, G. Pacheco Martins Ferreira, S. William Niquini, T. Dorea Rosario Falcao
- 1934 12:14 6' How successful are intercostal nerve transfers to restore elbow flexion in plexus palsy? 2'
Ulrike Schnick (Germany), R. Böttcher

10:30–12:30 PS139 Elbow and Forearm 3

A1

Chair: Mark Baratz (United States of America), Filip Dabrowski (Poland), Kilian Wegmann (Germany)

Q&A

- 1140 10:30 6' Epidemiology of postoperative elbow contracture release and associated factors 2'
Daniel Osei (United States of America), L. Wessel, A. Gu, E. O'Donnell, S. Richardson, D. Fufa

- 604 10:38 6' Development of three dimensional digital preoperative planning software for the distal humerus fractures 2'
Shin Teramura (Japan), Y. Yoshii, T. Ishii, K. Akita
- 1459 10:46 6' Three-dimensional planning of corrective osteotomies for paediatric malunited diaphyseal forearm fractures: do we achieve the desired functional gain and the planned correction? 2'
Kasper Roth (Netherlands), E. van Es, E. Oei, M. Reijman, G. Kraan, J. Verhaar, F. Stockmans, J. Colaris
- 1491 10:54 6' Diaphyseal and proximal ulnar non-union: anatomical and epidemiological risk factors. 2'
Laura Velasco-Gonzalez (Spain), M. Almenara-Fernandez, L. Trigo-Lahoz, C. Lamas-Gomez
- 158 11:02 6' Predictive factors for union time in adult diaphyseal forearm fractures 2'
Franck Atlan (Israel), S. Factor, B. Granoth, D. Tordjman, Y. Rosenblatt, T. Pritsch
- 929 11:10 6' Forearm diaphyseal bone strength recovers three months after plate removal 2'
Yusuke Matsuura (Japan), T. Rokkaku, K. Kuniyoshi
- 1474 11:18 6' Pedicled Vascularized Bone Graft Versus Induced Membrane Technique for Reconstruction of Forearm Medium Size Bone Defects 2'
Ezequiel Zaidenberg (Argentina), M. Pastrana, F. Juarez Cesca, C. Zaidenberg
- 231 11:26 6' Role of Anconeus in the Stability of a Lateral Ligament Deficient Elbow: An In Vitro Biomechanical Study 2'
Graham King (Canada), D. Axford, S. Banayan, J. Johnson, A. Badre
- 1469 11:34 6' Frailty is a Predictor of Unplanned Reoperation in Management of Forearm Fracture 2'
Kamil Amer (United States of America), D. Congiusta, J. Thomson, I. Ahmed, M. Vosbikian
- 1461 11:42 6' Metabolic Syndrome is an Independent Predictor of Unplanned Re-Operation After Operative Fixation of Forearm Fractures 2'
Dominick Congiusta (United States of America), K. Amer, A. Merchant, I. Ahmed, M. Vosbikian
- 540 11:50 6' Portal placement in elbow arthroscopy by novice surgeons: cadaver study 2'
Femke Claessen (United States of America), A. Kachooei, G. Kolovich, G. Buijze, L. Oh, M. van den Bekerom, J. Doornberg
- 516 11:58 6' Distribution of sensory nerve endings in the interosseous membrane of the forearm 2'
Susanne Rein (Germany), M. Esplugas, M. Garcia-Elias, F. Siemers, T. Magin, H. Philipps
- 738 12:06 6' The effect of the coronoid nonunion on the terrible triad of the elbow. 2'
Marcella Rodrigues Costa (Brazil), L. Braga Jacques Gonçalves
- 488 12:14 6' Involvement of the lesser sigmoid notch in elbow fracture dislocations 2'
Amir Reza Kachooei (Iran), M. Tarabochia, N. Chen, C. van Dijk, D. Ring

769	12:22	6'	Complex osteotomies with patient specific guides <i>Christian Kindler (Germany), B. Lukas</i>	2'
10:30–12:30 PS92 Congenital – Thumb Hypoplasia, Pollizisation, Finger Contractures				A2
Chair: Gill Smith (United Kingdom), Pasi Paavilainen (Finland), Takehiko Takagi (Japan)				Q&A
1539	10:30	6'	Digit preservation treatment for type IIIB or IV hypoplastic thumb using a non-vascularized metatarsal transfer and staged reconstruction <i>Bo Liu (China), S. Chen, P. Li, J. Zhu</i>	2'
405	10:38	6'	Growth of transplanted bone after reconstruction for severely hypoplastic thumb <i>Ruriko Iigaya (Japan), S. Takayama, T. Takagi, A. Seki, T. Suzuki, T. Iwamoto, M. Nakamura, M. Matsumoto, K. Sato</i>	2'
552	10:46	6'	Reconstruction of Severely Hypoplastic Thumb by Non-vascularized Metatarsal Graft with Abductor Digiti Minimi Opponensplasty <i>Takehiko Takagi (Japan), R. Iigaya, A. Seki, S. Takayama</i>	2'
1119	10:54	6'	Reconstruction of Blauth type IIIB hypoplastic thumb with half 2nd metacarpal and tendon transfer <i>Yousheng Fang (China)</i>	2'
726	11:02	6'	Reversed Vascularized Second Metatarsal Flap for Reconstruction of Type IIIB and IV Thumb Hypoplasia with Reduced Donor Site Morbidity <i>Shanlin Chen (China), B. Liu, S. Shanlin Chen, D. Tong</i>	2'
1400	11:10	6'	Novel Technique of Vascularized Longitudinal Hemi-Metatarsal Second Toe Transfer for Reconstruction of Congenital Hand Differences <i>Roisin Dolan (United Kingdom), H. Giele</i>	2'
1715	11:18	6'	Toe to hand transfer for five digit hand reconstruction in congenital thumb's hypoplasia <i>Dzintars Ozols (Latvia), J. Zarins, A. Petersons</i>	2'
1557	11:26	6'	Aesthetic reconstruction of fingers with re-shaped 2nd toe in one-stage operation <i>Yaping Liu (China), L. Tang, T. Cui, H. Zheng, S. Zhou, H. Zhang</i>	2'
1266	11:34	6'	Proximally based pedicled first dorsal interosseous muscle flap for index finger pollicisation in children: an anatomical study of the vascular and innervation patterns and surgical technique. <i>Yoon-Kim de Almeida (France), L. Athlani, M. Krebs, M. Braun, F. Dap, G. Dautel</i>	2'
592	11:42	6'	Pollicization: new ideas of the biomechanics of the new thumb <i>Vladimir Zavarukhin (Russian Federation)</i>	2'
1517	11:50	6'	Global First Web Release in Clapsed Thumb – An Anatomical Approach to Treatment <i>Lisa Ng (United Kingdom), Y. Chin, B. Crowley</i>	2'

Scientific Programme – Friday

1743	11:58	6'	Surgical Treatment of congenital camptodactyly, multicenter study <i>Massimo Corain (Italy), M. Giardini, R. Adani, M. Lando</i>	2'
889	12:06	6'	Functional and aesthetic reconstruction of the digital flexion contracture with full-thickness plantar skin grafting in children <i>Yongkang Jiang (China)</i>	2'
669	12:14	6'	Bilobed Flap in Hand Clinodactyly Reconstruction: Technique Description and Result Appraisal <i>Ricardo Kaempf (Brazil), P. J Delgado, M. Aita, S. Ribak, E. Vergara-Amador</i>	2'
1741	12:22	6'	The postoperative dressing regime in congenital hand surgery – Is frequent dressing change necessary? <i>Christianne van Nieuwenhoven (Netherlands), C. Nooteboom, S. Hovius, L. Burger</i>	2'

10:30–11:30 **PS118 Panel: Tumors of the Hand** A3

Chair: *Michael Sauerbier (Germany), Marco Innocenti (Italy), Peter Murray (United States of America)*

Q&A

1805	10:30	6'	Lipofibroma Hamartoma of the peripheral Nerves of the upper Extremity. Analysis of twelve Cases. <i>Roberto Adani (Italy), P. Tos, S. Colopi, G. Petrella, F. Pantaleoni</i>	2'
365	10:38	6'	Management and Outcome of acral Soft Tissue Sarcoma <i>Benjamin Dean (United Kingdom), P. Critchley, L. Cogswell, H. Giele, H. Branford-White, N. Athanasou, M. Gibbons</i>	2'
4138	10:46	13'	Hand Tumors – current Trends in Resection and Reconstruction <i>Peter Murray (United States of America)</i>	0'
4139	10:59	13'	Reconstruction or Amputation? <i>Marco Innocenti (Italy)</i>	0'
	11:12	0'	Discussion	10'

11:30–12:30 **PS30 Radius Fracture 3** A3

Chair: *Jean-Luc Roux (France), Jesse B Jupiter (United States of America), Levent Yalçın (Turkey)*

Q&A

1522	11:30	6'	Treatment of Distal Radius Fractures by Wrist Prosthesis <i>Jean-Luc Roux (France)</i>	2'
919	11:38	6'	Distal radius fractures: is rotation an important factor in fixation? <i>Joshua Filer (United Kingdom), A. Smith, G. Giddins</i>	2'
1694	11:46	6'	Technique for Intramedullary Stabilization of Ulnar Neck Fractures with Headless Compression Screw <i>Jinrok Oh (South Korea [ROK])</i>	2'
1345	11:54	6'	Clinical Outcome of Fixation Versus Conservative Management of Basal Fractures of the Ulnar Styloid Following Volar Plate Fixation of the Distal Radius <i>Ahmed Afifi (Egypt)</i>	2'

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- 1661 12:02 6' The effect of articular tilt on carpal alignment in acute distal radius fractures 2'
Rachel Dias (United Kingdom), N. Johnson, J. Dias
- 282 12:10 6' Displaced dorsal lunate facet fracture treated with a volar locking plate.
 Is it advantageous to capture the fragment with a full length locking screw? 2'
Jesse B Jupiter (United States of America)
- 299 12:18 6' Fixation of Dorsal Ulnar Corner Fractures of the Distal Radius Through
 an Anterior Approach A Prospective Study with CT Documentation 2'
Jesse B Jupiter (United States of America)
- 304 12:26 4' The Dorsal Barton Fracture Revisited 0'
Jesse B Jupiter (United States of America)

10:30–12:30 PS20 Nerve Experimental A4

Chair: *Fraser Leversedge (United States of America),*

Dominic Power (United Kingdom), Jefferson Braga Silva (Brazil)

Q&A

- 85 10:30 6' Clinical efficacy of collagen wrap following neurorrhaphy 2'
Randy Bindra (Australia)
- 1439 10:38 6' Nerve repair and regeneration by biological tubulization of amnion muscle
 combined graft (AMCG): from bench to bedside 2'
Michele Riccio (Italy), F. De Francesco, A. Marchesini
- 1454 10:46 6' CONNECT: Conduit Nerve approximation versus Neurorrhaphy Evaluation
 of Clinical outcome Trial 2'
Bafiq Nizar (United Kingdom), F. Mark, D. Power, S. Parthiban
- 1953 10:54 6' Porcine submucosa extracellular matrix nerve wrapping of scarred nerves 2'
Pieter Jordaan (United Kingdom), O. Uhiara, D. Power
- 324 11:02 6' Recurrent Compressive Neuropathies Treated with Neurolysis and Porcine
 Extracellular Matrix Nerve Wrap 2'
Loukia Papatheodorou (United States of America), D. Sotereanos
- 906 11:10 6' The effects of porcine extracellular matrix nerve wrap as an adjunct to
 primary epineurial repair 2'
*Nicholas von Guionneau (United States of America), P. Hanwright, J. Rath,
 B. Slavin, D. Zlotolow, W. Lee, J. Shores, A. Dellon, S. Tuffaha*
- 672 11:18 6' Outcomes after Long Gap Allograft Reconstruction in the Upper and
 Lower Extremities: A Retrospective Review 2'
*Brendan Mackay (United States of America), M. Blue, J. Suryavanshi,
 B. Osemwengie, N. Swinford, D. Mckee*
- 1344 11:26 6' Evaluation of Factors Influencing Nerve Recovery after Reconstruction of
 Nerve Transection Injuries with Processed Nerve Allograft 2'
*Gregory Buncke (United States of America), D. Power, I. Valerio, S. Jain,
 L. Nesti, F. Leversedge, D. Mckee, B. Mackay, J. Zoldos, B. Safa*
- 740 11:34 6' Preliminary results of vein wrapping for treating hyperaesthesia of the
 superficial sensory radial nerve. 2'
Nur Azree Ferdaus Kamudin (Malaysia), A. Ahmad, A. Bahar, S. Abdullah

- 1066 11:42 6' Evaluation of Nerve Reconstruction in the Hand by Gap Length with Processed Nerve Allograft 2'
Bauback Safa (United States of America), T. Niacariss, S. Jain, M. Desai, F. Leversedge, G. Buncke
- 1041 11:50 6' Outcomes after Long Nerve Gap Reconstructions in the Upper Extremity with Processed Nerve Allograft 2'
Bauback Safa (United States of America), T. Niacariss, L. Nesti, J. Zoldos, J. Shores, G. Buncke
- 1048 11:58 6' Topographical analysis of Pacinian corpuscle in the pulp of human cadaver finger tip pulp : A pilot cadaver study 2'
Hyun-Joo Lee (South Korea [ROK]), M. Deslivia, E. Kholinne, G. Kim, I. Rhyu, S. Lee, I. Jeon, L. Seo
- 35 12:06 6' Distribution and Surface Projections of Nerve Fascicles Innervating Lumbrical and interosseous Muscles 2'
Yang Tong (China)
- 676 12:14 6' Histological Evaluation of Processed Nerve Allograft Following Nerve Banking in Revision Limb Salvage Procedure. 2'
Brendan Mackay (United States of America), M. Blue, J. Suryavanshi, B. Osemwengie, N. Swinford, D. Mckee
- 1228 12:22 6' Short-term Course of Artificial Nerve Graft for Old Digital Nerve Injury. A Report of 2 Cases. 2'
Osami Suzuki (Japan), T. Mizuseki, T. Masuda

10:30–11:45 PS107 DRUJ Instability 2

A5

Chair: Rupert Eckersley (United Kingdom), Luc van Overstraeten (Belgium), Bernhard Lukas (Germany)

Q&A

- 1700 10:30 3' Comfortable Cast to restrict pronation and supination. Is it possible ? 1'
Christian Kindler (Germany), B. Lukas
- 860 10:34 6' Transversal morphology of the sigmoid notch 2'
Flavien Mauler (Switzerland), S. Boudabbous, J. Beaulieu
- 1401 10:42 6' Anatomical correlation between the presence of a distal oblique bundle and the type of radioulnar joint according to the classification of Tolat. 2'
Emmanuelle Richard (France), P. Kouyoumdjian, R. Coulomb, O. Mares
- 280 10:50 6' Distal Radio-ulnar Joint Configurations in Patients with Idiopathic Ulnar Impaction Syndrome: A New Classification System 2'
Yeun soo Kim (South Korea [ROK]), J. Kim, K. Bae, H. Gong, G. Baek
- 1583 10:58 6' The Importance of the Distal Oblique Band in Forearm Longitudinal Stability: A Biomechanical Comparative study 2'
Felix Riano (United States of America), R. Kalapos, M. Lendhey
- 683 11:06 6' Length changes of distal accessory band of Interosseous membrane during forearm rotation – a 3D CT study in vivo 2'
Jun Tan (China), Y. Sun, J. Chen

Scientific Programme – Friday

- 973 11:14 6' Intraoperative Technique for Evaluation of the Interosseous Ligament of the Forearm 2'
Babak Shojaie (United States of America), A. Kachooei, M. Rivlin, C. van Dijk, C. Mudgal
- 1489 11:22 6' Reconstruction of distal oblique bundle of the interosseous membrane of the forearm by percutaneous ligamentoplasty. 2'
Belen Garcia-Medrano (Spain), B. Fernandez Bran, F. Polo Simon, R. Kaempf De Oliveira, M. Gil de Rozas, P. Delgado Serrano
- 926 11:30 6' Treatment of radiocubital distal instability with endo button system 2'
William Alvarez (Ecuador)

11:45–12:30 PS126 Panel: DRUJ A5

Chair: Jorge Orbay (United States of America), William Geissler (United States of America), Jan-Ragnar Haugstvedt (Norway)

- 4176 11:45 10' Understanding forearm instability 0'
Jorge Orbay (United States of America)
- 4055 11:55 10' Proximal Oblique Ligament (ligament of Weichtbrecht) and radial head stability 0'
Deana Mercer (United States of America)
- 4091 12:05 10' Central Band and the Essex-Lopresti syndrome 0'
Nathan Hoekzema (United States of America)
- 4081 12:15 10' Distal Oblique Ligament and its implications in DRUJ stability 0'
Robert Gray (Germany)
- 12:25 0' Discussion 10'

10:30–12:30 PT18 Technology in hand rehabilitation A8

Chair: Yafa Levanon (Israel), Kathrin Allgöwer (Germany)

- 9441 10:30 12' The most recent and emerging 3D printing technologies in the Hand Therapy sector 0'
Joseph White (United Kingdom), A. Paterson
- 9442 10:42 12' Open-source, low-cost 3D printed prostheses utilized as transitional prostheses for the upper extremity amputee 0'
Eugenia Papadopoulou (United States of America)
- 9443 10:54 12' Automatization of splint fitting for patient-specific 3D printing 0'
Sigal Portnoy (Israel)
- 9444 11:06 12' Advances in Upper Limb Prostheses: The Role of Hand Therapy in Rehabilitation 0'
Susanne Breier (Germany)
- 9445 11:18 12' Body power prosthetics and osseointegration, advantage and disadvantages, focus on workers reintegration 0'
Ricardo Banda (Chile)

Scientific Programme – Friday

9446	11:30	12'	Technologies to analyze activities to daily living in hand rehabilitation <i>Joachim Hermsdörfer (Germany)</i>	0'
9447	11:42	12'	Evidence for use of video-narrated exercises to enhance patient behaviours and outcomes. <i>Nicola Goldsmith (United Kingdom)</i>	0'
9448	11:54	12'	Telerehabilitation for upper extremity injuries <i>Yafa Levanon (Israel)</i>	0'
	12:06	0'	Panel Discussion	10'
9449	12:16	14'	Cristina Alegri award for innovation IFSHT <i>Nicola Goldsmith (United Kingdom)</i>	0'

12:30–13:30 Lunch Break and Industry Workshops

Visit of Industry and ePoster Exhibition

13:30–14:30 PS135 Panel: Nerve Transfers in the Adult A6-7

Chair: Franz Lassner (Germany), Pier Luigi Raimondi (Italy), Jianwu Qi (China)

1000	13:30	6'	Triple nerve transfers for the C5/6 Brachial Plexus injury <i>Ajmal Ikram (South Africa)</i>	0'	Q&A
4195	13:36	12'	Long Nerve Transfers in the reconstructive Concept of Brachial Plexus Palsy <i>Michael Becker (Germany)</i>	0'	
4194	13:48	12'	Nerve Transfers for the Reconstruction of complex Nerve Injuries	0'	
4198	14:00	12'	Muscle Transfers today	0'	
4210	14:12	0'	Panel Discussion: Nerve or Muscle Transfer, when and why? <i>Michael Becker (Germany), David Chwei-Chin Chuang (Taiwan), Ajmal Ikram (South Africa)</i>	18'	

14:30–16:00 PS83 Nerve: Pediatric Brachial Plexus A6-7

Chair: Riccardo Giunta (Germany), Robert Schmidhammer (Austria), Michael Solomons (South Africa)

851	14:30	6'	Management of shoulder internal rotation limitation in obstetrical palsy. <i>Atakan Aydin (Turkey), Z. Hosbay, S. Ozkan</i>	2'	Q&A
465	14:38	6'	Direct coaptation in the microsurgical reconstruction of obstetric brachial plexus lesions <i>Jörg Bahm (Germany)</i>	2'	
1070	14:46	6'	Brachial Plexus Birth Injury: An Epidemiological State Level Analysis of Trends and Risk Factors <i>Sarah Sibbel (United States of America), A. Lalka, J. Gralla</i>	2'	
1314	14:54	6'	Secondary Traumatic Stress and Depression in Obstetrical Providers After Shoulder Dystocia and Brachial Plexus Birth Palsy Deliveries <i>Joshua Abzug (United States of America), K. Robinson, D. Hogarth, N. O'Hara</i>	2'	

Scientific Programme – Friday

262	15:02	6'	Current algorithms for obstetric palsy are too aggressive. A practical and conservative approach using triceps and wrist extension assessment. <i>Michael Solomons (South Africa), A. Bommier, D. McGuire, M. Maree</i>	2'
1917	15:10	6'	Outcomes of Isolated Spinal Accessory to Suprascapular Nerve Transfers for Brachial Plexus Birth Injury: A Multi-Center Study <i>Kevin Little (United States of America), F. Soldado, D. Zlotolow, S. Kozin, R. Cornwall, D. Segal</i>	2'
477	15:18	6'	Outcome of Tendon Transfer Around Shoulder with Erb's Palsy Internal Rotation Deformity <i>Farouk Hamad (Egypt), M. Romeih, M. Ayoub</i>	2'
1915	15:26	6'	Does intra-articular and extra-articular soft tissue procedures can improve global shoulder function and glenohumeral deformity in OBPP patients? Retrospective cohort of 17 patients. <i>Alvaro Cho (Brazil), M. Moraes, G. Bersani, R. Iamaguchi, L. Lorimier, L. Kiyohara, R. Mattar Jr., M. Rezende, T. Wei</i>	2'
846	15:34	6'	Lower Trapezius Transfer for Triceps Function in Obstetric Palsy; Review of Other Methods and Presentation of 15 Cases. <i>Atakan Aydin (Turkey), Z. Hosbay, S. Ozkan</i>	2'
1913	15:42	6'	Paediatric Peripheral Nerve Injury: Long term Sensorimotor Recovery following Primary Surgical Repair <i>Ben Langridge (United Kingdom), M. Griffin, M. Akhavan, P. Butler</i>	2'
1629	15:50	6'	Functional muscle transfer of the low trapezius portion for paralytic shoulder, ipsilateral and contralateral <i>Aida Garcia (Colombia)</i>	2'

16:00–16:30 PS136 Panel: Obstetric Brachial Plexus A6-7

Chair: *Pier Luigi Raimondi (Italy), Atakan Aydin (Turkey), Riccardo Giunta (Germany)*

4196	16:00	12'	Nerve transfers in the OBP <i>Pier Luigi Raimondi (Italy)</i>	Q&A 0'
4197	16:12	12'	How can we stabilize posterior subluxation of the shoulder? <i>Roger Cornwall (United States of America)</i>	0'
	16:24	0'	Discussion	6'

13:30–14:30 PS85 Panel: What the Hand Surgeon should know about the Elbow 2 A1

Chair: *Aida Garcia (Colombia), Lars P. Müller (Germany), Takuro Wada (Japan)*

4126	13:30	10'	Radial head fractures: What surgery, if any? <i>Gregory Bain (Australia)</i>	Q&A 0'
4127	13:40	10'	The stiff elbow: What surgery, if any? <i>Mark Baratz (United States of America)</i>	0'

4128	13:50	10'	Elbow instability: Internal brace? <i>Stefan Greiner (Germany)</i>	0'
4129	14:00	10'	Chronic Essex-Lopresti: What surgery, if any? <i>Kilian Wegmann (Germany)</i>	0'
	14:10	0'	Discussion	12'
14:30–15:30 PS86 Elbow and Forearm: Radial Head Fractures, Stiff Elbow, Elbow Instability 1				A1
Chair: <i>Mark Baratz (United States of America), Stefan Greiner (Germany), Graham King (Canada)</i>				Q&A
306	14:30	6'	Radiocapitellar prosthetic arthroplasty: short-term to midterm results of 19 elbows <i>Amir Reza Kachooei (Iran), N. Heesakkers, A. Heijink, B. The, D. Eygendaal</i>	2'
357	14:38	6'	Radial head Resection and Hemi- interposition vs „functional radial head resection“ with a computerized ring fixator in patients with chronic missed Monteggia pathology: a prospective analysis. <i>Konrad Mader (Germany), S. Yazar- Schlickewei, M. Flipsen, J. Ham, S. Klötzer, K. Frosch</i>	2'
555	14:46	6'	Prognostic factors of radial head arthroplasty outcomes <i>Luis Aguilera (Spain), J. Sevil, M. Soler</i>	2'
308	14:54	6'	Factors associated with removal of a radial head prosthesis placed for acute trauma <i>Amir Reza Kachooei (Iran), F. Claessen, S. Chase, K. Verheij, C. van Dijk, D. Ring</i>	2'
1255	15:02	6'	Surgical Dislocation and Cancellous Bone Graft is Alternative Operative Treatment in Capitellar and Trochlea Fracture with Elbow Instability <i>Young Ho Lee (South Korea [ROK]), M. Lee, Y. Lee, Y. Kim, C. Lee, Y. Chae, Q. Li, G. Baek</i>	2'
1465	15:10	6'	Open Reduction and Internal Fixation with Headless Compression Screws for Coronal Shear Fractures Dubberley Type 3. Outcomes at a Mean Follow-up of 7 Years. <i>Ezequiel Zaidenberg (Argentina), M. Abrego, J. Boretto, P. De Carli, G. Gallucci</i>	2'
269	15:18	6'	Medial Elbow Exposure: A Comparison of 5 Approaches <i>Graham King (Canada), A. Huang, M. Hackl, A. Chan, R. Potra, D. Axford, G. Athwal</i>	2'
223	15:26	6'	Advances in Ulnar Collateral Ligament Reconstruction of the Elbow: A Biomechanical comparison. <i>Felix Riano (United States of America), S. Lee</i>	2'

15:30–16:30 **PS140 Elbow and Forearm: Radial Head Fractures, Stiff Elbow, Elbow Instability 2** A1

Chair: Gregory Bain (Australia), Graham King (Canada), Kilian Wegmann (Germany)

Q&A

- 606 **15:30** 6' Role of an Adjustable Hinged Elbow Orthosis in the Rehabilitation of a Lateral Collateral Ligament Deficient Elbow: An In Vitro Biomechanical Study 2'
Graham King (Canada), S. Banayan, D. Axford, J. Johnson, A. Badre
- 367 **15:38** 6' The Effect of Torsional Moment of Forearm Weight on the Posterolateral Rotatory Instability of a Lateral Ligament Deficient Elbow: An In Vitro Biomechanical Investigation 2'
Graham King (Canada), D. Axford, S. Banayan, J. Johnson, A. Badre
- 1311 **15:46** 6' Does an Associated Elbow Dislocation Lead to Worse Outcomes in Medial Epicondyle Fractures? 2'
Joshua Abzug (United States of America), S. Toner, A. Case, D. Hogarth
- 1879 **15:54** 6' Results of Fascia Lata Soft Tissue Interposition Elbow Arthroplasty for Chronic Neglected Posterior Dislocations of the Elbow of more than 1 year duration 2'
Abhijeet Wahegaonkar (India), S. Mane, A. Bansode, C. Karande Patil
- 1779 **16:02** 6' Results of fascia lata interposition arthroplasty for elbow ankylosis 2'
Pierluigi Tos (Italy), A. Crosio, F. Olivero, S. Odella
- 1470 **16:10** 6' Total arthroplasty in the treatment of previous infection of the elbow. Two-stage surgery 2'
Gerardo Gallucci (Argentina), J. Puig Dubois, E. Zaidenberg, A. Donndorff, J. Boretto, P. De Carli
- 208 **16:18** 6' open arthrolysis on tuberculosis oriented elbow stiffness 2'
Cunyi Fan (China), Y. Qian
- 1259 **16:26** 6' Use of Kirschner Wires With Eyelets for Tension Band Wiring of Olecranon Fractures 2'
Jung Eun Lee (South Korea [ROK]), Y. Lee, J. Kim, Y. Kim, C. Lee, Y. Chae, Q. Li, G. Baek

13:30–15:30 **PS93 Congenital – Double Thumb and Gigantism** A2

Chair: Emiko Horii (Japan), Marybeth Ezaki (United States of America), Christianne van Nieuwenhoven (Netherlands)

Q&A

- 613 **13:30** 6' A Comparative Analysis of 150 Thumb Polydactyly Cases from the CoULD Registry Using the Wassel-Flatt, Rotterdam, and Chung Classifications 2'
Deborah Bohn (United States of America), E. Thompson, J. Agel, A. Bauer, C. Goldfarb, C. Hu, A. Moeller, S. Novotny, A. Van Heest
- 1654 **13:38** 6' Correction of Radially Deviated Wassel Type III Thumb Polydactyly using Modified Open-Wedge Osteotomy vs Conventional Closed-Wedge Osteotomy in 51 Children 2'
Xiaofei Tian (China)

Scientific Programme – Friday

- 922 13:46 6' Pathology and treatment of deviation deformity of thumb after radial polydactyly resection 2'
Huaiyuan Zheng (China), Z. Chen, G. Hong, X. Cong, Yanhua Chen (China)
- 1055 13:54 6' Neurovascular Island Flap for Thumb Duplication Reconstruction—a Novel Treatment with Long Term Outcomes 2'
Michael Chu-kay Mak (Hong Kong), E. Chow, B. Liu, W. Tse, P. Ho
- 1732 14:02 6' Volar approach of „On-Top Plasty“ for reconstruction of radial polydactyly 2'
Bin Wang (China)
- 1018 14:10 6' On-Top-Plasty combined Modified Bilhaut-Cloquet Procedure for Complicated Radial Polydactyly 2'
Xiaofang Shen (China)
- 887 14:18 6' Correction of the postoperative deviation deformity in duplicated thumbs 2'
Yongkang Jiang (China)
- 1274 14:26 6' Outcome in radial polydactyly at the interphalangeal and metacarpophalangeal level: An international multicenter study 2'
Robert Dijkman (Netherlands), R. Selles, W. Hülsemann, M. Mann, R. Habenicht, S. Hovius, C. van Nieuwenhoven
- 1036 14:34 6' Thumb strength and manual ability in radial polydactyly at the interphalangeal and metacarpophalangeal joint level 2'
Robert Dijkman (Netherlands), R. Leicher, R. Selles, M. Mann, W. Hülsemann, S. Hovius, C. van Nieuwenhoven
- 1039 14:42 6' The reconstruction of lateral nail fold in radial polydactyly with a common nail 2'
Weiyang Gao (China), L. Wang, J. Ding, A. Wang, Z. Zhou
- 879 14:50 6' Pathologic Adipose Infiltration in Macrodactyly: the Mechanisms and Treatment Options 2'
Bin Wang (China)
- 1572 14:58 6' Aspects of toe to hand transfers in children with the macrodactyly of the hand 2'
Tatiana Tikhonenko (Russian Federation), S. Golyana
- 1095 15:06 6' Palmar and complex distal flap in macrodactyly surgery 2'
Vladimir Zavarukhin (Russian Federation)
- 1450 15:14 6' PIK3CA somatic mutation in a patient with Aberrant Muscle Syndrome and Lymphatic Malformation 2'
Jessica Steele (United Kingdom), T. Penington, M. Christie, C. Coombs
- 668 15:22 6' Treatment of congenital upper limb muscular hypertrophy in hand 2'
Wen Tian (China), J. Zhao, G. Tian

15:30–16:30 PS99 Carpus Fracture Dislocation A2

Chair: Berthold Bickert (Germany), Ian Trail (United Kingdom) Q&A

- 109 15:30 6' Surgical Treatment of the Perilunate Dislocation with Dorsal Approach 2'
In Tae Hong (South Korea [ROK]), G. Kim, H. Ryu, S. Han

Scientific Programme – Friday

1784	15:38	6'	Perilunate fracture-dislocations: clinical and radiological results with a minimum 2-year of follow-up <i>Elisabete Ribeiro (Portugal), C. Sa Barros, G. Frana, M. Batista, P. Varanda, J. Ribeiro, L. Rodrigues</i>	2'
1909	15:46	6'	Radiocarpal fracture dislocations: a new classification proposal <i>Emygdio Jose Leomil de Paula (Brazil), R. Junior</i>	2'
536	15:54	6'	Surgical approach to management of perilunate dislocations – Volar or Dorsal or Combined? <i>Chaitanya Dodakundi (United Arab Emirates), K. Alawadi, N. Jovanovic</i>	2'
4100	16:02	6'	Panel: Overview of current treatment of perilunate injuries <i>Marco Rizzo (United States of America)</i>	0'
4101	16:08	6'	Panel: New Trend in the Management of Perilunate Injuries: arthroscopic Approach <i>Bo Liu (China)</i>	0'
	16:14	0'	Panel Discussion	16'

13:30–14:30 **PS137 Radius Fracture 4** **A3**

Chair: *Christoph Pezzei (Austria), Felipe Saxton (Chile), Massimo Corain (Italy)*

Q&A

1927	13:30	6'	Treatment of marginal rim fracture of the distal radius using a new fragment-specific plate <i>Rafael Aquino Leal (Italy), M. Corain, F. Zanotti, M. Laterza</i>	2'
1892	13:38	6'	The use of dorsal butters wire in treatment of distal radio fracture <i>Abdel Hakim Massoud (Egypt), N. Naam, A. Akar, T. Badr, A. Fouad</i>	2'
833	13:46	6'	Variable Angle LCP Volar Rim Plate fixation for volar displaced distal radius fracture with volar lunate facet fragment <i>Shiro Suzuki (Japan), K. Fujita, A. Nimura</i>	2'
1316	13:54	6'	A new pattern of extremely distal articular fragments in distal radius fractures <i>Virginia Maria Cafruni (Argentina), P. Bronenberg Victorica, G. Gallucci, A. Donndorff, J. Boretto, P. De Carli</i>	2'
386	14:02	6'	Hook Plate for volar rim fractures of the distal radius: review of the first 45 cases and focus on dorsal radiocarpal dislocation <i>Giulio Lauri (Italy), M. Biondi, S. Pfanner, P. Bigazzi, M. Ceruso</i>	2'
4064	14:10	0'	Round Table: Marginal Fragments – Do we really care? <i>Wolfgang Hintringer (Austria), Keikichi Kawasaki (Japan), Giulio Lauri (Italy), Rames Mattar Jr. (Brazil)</i>	20'

14:30–15:30 **PS98 Corrective Osteotomy** A3

Chair: *Roberto Adani (Italy), Amit Gupta (United States of America), Gustavo Mantovani (Brazil)*

Q&A

- | | | | | |
|------|-------|----|---|----|
| 1377 | 14:30 | 6' | Computer Assisted Double Osteotomy (CADO) for Madelung Disease, A New Approach of Treatment
<i>Julian Suarez-Gomez (Colombia), J. Hernandez-Beltran, D. Fernandez Loaiza</i> | 2' |
| 401 | 14:38 | 6' | Functional outcomes after corrective osteotomy of symptomatic distal radius malunions in children
<i>Caroline Selles (Netherlands), M. Mulders, G. Roukema, C. van der Vlies, B. Cleffken, N. Schep</i> | 2' |
| 753 | 14:46 | 6' | Computer Guided Templating for Osteostomy and Fixation of Complex Distal Radius Deformity Provides Cost-Effective and Anatomic and Biomechanically Superior Results to „Free-Hand“ Surgery
<i>William Seitz (United States of America)</i> | 2' |
| 1933 | 14:54 | 6' | An Innovative Approach to Preoperative Planning and Performing Corrective Osteotomy of the Radius.
<i>Kirill Turbin (Russian Federation), A. Akulaev, A. Filippova</i> | 2' |
| 356 | 15:02 | 6' | A new computational approach for fully automatic 3D preoperative planning of forearm osteotomies
<i>Fabio Carrillo (Switzerland), S. Roner, A. Schweizer, L. Nagy, J. Snedeker, P. Fürnstahl</i> | 2' |
| 1711 | 15:10 | 6' | Fibulo scapho lunate arthrodesis: an option in case of important loss of substance of the distal radius.
<i>Simonetta Odella (Italy), D. Ciclamini, A. Crosio, S. Bastoni, P. Daolio, B. Battiston, P. Tos</i> | 2' |

15:30–16:30 **PS132 Panel: Corrective Osteotomy – when and how?** A3

Chair: *Hermann Krimmer (Germany), Andreas Schweizer (Switzerland), Diego Fernandez (Switzerland)*

Q&A

- | | | | | |
|------|-------|----|---|-----|
| 1728 | 15:30 | 8' | Distal radius decompression osteotomy for ulnar impingement syndrome
<i>Roman Wolters (Germany), K. Koch, H. Krimmer</i> | 0' |
| 4181 | 15:38 | 8' | Principles of early correction in secondary dislocation
<i>Diego Fernandez (Switzerland)</i> | 0' |
| 4182 | 15:46 | 8' | My personal experience with 3D planning for correction osteotomies
<i>Andreas Schweizer (Switzerland)</i> | 0' |
| 1807 | 15:54 | 8' | Corrective osteotomies of the radius: Grafting or not?
<i>Roberto Adani (Italy), R. Mugnai, D. Lana, L. Tarallo</i> | 0' |
| | 16:02 | 0' | Panel Discussion | 20' |

13:30–15:30 PS45 Experimental 2

A4

Chair: Ales Fibir (Czech Republic), Margarita Högele (Germany),
Jeffrey Greenberg (United States of America)

Q&A

- | | | | | |
|------|-------|----|--|----|
| 1713 | 13:30 | 6' | Nerve Decellularization: Looking for the more Reliable Method
<i>Simonetta Odella (Italy), S. Raimondo, A. Lovati, A. Crosio, F. Locatelli, S. Geuna, P. Tos</i> | 2' |
| 207 | 13:38 | 6' | Regulation of neural stem cell fate by three-dimensional gold nanocomposite channels
<i>Cunyi Fan (China), Y. Qian</i> | 2' |
| 804 | 13:46 | 6' | Investigation of nerve regeneration promoting factor in bioabsorbable nerve conduits coated with induced pluripotent stem cell-derived neurospheres
<i>Takuya Yokoi (Japan), T. Uemura, K. Takamatsu, K. Shintani, E. Onode, M. Okada, H. Nakamura</i> | 2' |
| 737 | 13:54 | 6' | The introduction of human Mesenchymal Stem Cells to clinically available nerve substitutes
<i>Femke Mathot (United States of America), N. Rbia, A. Bishop, A. van Wijnen, A. Shin</i> | 2' |
| 1029 | 14:02 | 6' | A Mendelian randomisation analysis suggests that skeletal growth is causal in the aetiology of Carpal Tunnel Syndrome
<i>Akira Wiberg (United Kingdom), M. Ng, A. Schmid, R. Smillie, G. Baskozos, M. Holmes, D. Bennett, D. Furniss</i> | 2' |
| 1638 | 14:10 | 6' | Effect of discontinuous low dose FK506 administration on motor recovery after cryopreserved nerve allograft
<i>J. Kim, Ja Hea Gu (South Korea [ROK]), J. Jung, J. Kim</i> | 2' |
| 869 | 14:18 | 6' | The effect of nitric oxide-releasing silica nanoparticle on revascularization and functional recovery in rat sciatic nerve crush injury
<i>Ji Hun Park (South Korea [ROK]), J. Lee, J. Park, M. Ok, J. Shin, J. Lee</i> | 2' |
| 921 | 14:26 | 6' | Treatment of Painful Neuroma by Nerve Capping Using Nerve Conduits in a Rat Model
<i>Ema Onode (Japan), T. Uemura, K. Shintani, T. Yokoi, M. Okada, K. Takamatsu, H. Nakamura</i> | 2' |
| 748 | 14:34 | 6' | Gene interaction profiles of differentiated and undifferentiated adipose derived mesenchymal stem cells dynamically seeded onto a processed nerve allograft
<i>Femke Mathot (United States of America), N. Rbia, A. van Wijnen, A. Bishop, A. Shin</i> | 2' |
| 911 | 14:42 | 6' | IGF-1 Nanoparticles to Ameliorate Effects of Chronic Denervation Following Peripheral Nerve Injury
<i>Nicholas von Guionneau (United States of America), P. Hanwright, C. Qiu, J. Rath, K. Sarhane, T. Harris, H. Malapati, A. Hoke, H. Mao, S. Tuffaha</i> | 2' |
| 347 | 14:50 | 6' | Pharmacologic Prevention of Contractures in Neonatal Brachial Plexus Injury
<i>Roger Cornwall (United States of America), A. Nikolaou, L. Hu</i> | 2' |

- 858 14:58 6' Recovery Analysis of Two Point Tactile Discrimination Following Dorsal Cross Finger Flap 2'
Tanveer Ahmed (Bangladesh), I. Mannan, F. Ibrahim, A. Kalam
- 1485 15:06 6' Stimulated Grip Strength Testing: Validation of Novel Method for Functional Assessment 2'
Nicholas von Guionneau (United States of America), P. Hanwright, J. Rath, T. Harris, K. Sarhane, S. Kemp, W. Lee, A. Hoke, P. Cederna, S. Tuffaha
- 5059 15:14 6' Preclinical Evalutation of A New Robotic Platform Designed for Microsurgery 2'
Marco Innocenti (Italy), G. Malzone

15:30–16:30 PS43 Panel: Bridging Nerve Defects – experimental or reality? A4

Chair: *Maurizio Calcagni (Switzerland), Johannes Mayer (Austria), Wendong Xu (China)*

Q&A

- 1747 15:30 12' Decellularized vascularized nerve scaffolds for the reconstruction of large peripheral nerve defects 3'
Esther Vögelin (Switzerland), I. Lese, R. Olariu, J. Duisit, B. Lengele, R. Rieben, A. Taddeo
- 4051 15:45 12' Vene/Vene-Muscle and Nerve conduits: When and what to use? Which is the Evidence? 3'
Pierluigi Tos (Italy)
- 4052 16:00 12' Human acellular nerve allograft combined with contralateral C7 transfer to repair upper trunk in brachial plexus injury
Jian Qi (China)
- 4053 16:15 12' Stem Cells for Peripheral Nerve Repair
NN

13:30–15:00 PS108 DRUJ Replacement A5

Chair: *Mario Bonaccio (Switzerland), Martin Leixnering (Austria), Jorge Orbay (United States of America)*

Q&A

- 1155 13:30 3' Clinical characteristics of primary and post-traumatic osteoarthritis of the distal radioulnar joint 1'
Shukuki Koh (Japan), J. Otsuka, E. Horii
- 660 13:34 6' Darrach's procedure in total wrist arthroplasty 2'
Trygve Holm-Glad (Norway), M. Rokkum, O. Reigstad
- 1116 13:42 6' Combined Total Wrist Arthroplasty with Ulna Head Prosthesis in a Rheumatoid Patient with gross Distal Radio-Ulnar Joint instability using Interosseous Membrane Reconstruction with Brachioradialis tendon graft 2'
Marcio Aurelio Aita (Brazil), R. Kaempf, R. Araujo Filho, B. Biondi, P. Delgado Serrano, G. Ruggiero
- 316 13:50 6' Outcome of a constrained arthroplasty of the distal radioulnar joint 2'
Maarten Van Nuffel (Belgium), I. Degreef, V. Wijnen

Scientific Programme – Friday

1331	13:58	6'	Survival of Aptis Distal Radioulnar Joint (DRUJ) Implant Arthroplasty. <i>Hans Tromborg (Denmark)</i>	2'
1962	14:06	6'	Distal radio-ulnar replacement: our early experience with a constrained prosthesis <i>N. Ellahee, Aisha Razik (United Kingdom), S. Khan, A. Khoriat, H. Khan, G. Green, R. Mallina, R. Sharma</i>	2'
301	14:14	6'	Distal radioulnar joint replacement with wrist arthrodesis a long term follow up <i>Jesse B Jupiter (United States of America)</i>	2'
663	14:22	6'	Our results with distal radioulnar joint hemiarthroplasty <i>Istvan Zoltan Rigo (Norway), A. Amundsen, P. Dovland, B. Simon, J. Holthusen, J. Haugstvedt</i>	2'
1604	14:30	6'	Herbert ulnar head implant arthroplasty: 47 cases; mean follow-up 6,5 years <i>Peter Axelsson (Sweden), A. Ibsen-Sörensen, C. Sollerman</i>	2'
652	14:38	6'	Ulnar head offset to restore DRUJ stability <i>Jorge Orbay (United States of America), E. Tremols, R. Galindo, L. Vernon, V. Morales, S. Poirier</i>	2'

15:00–15:30 **PS123 DRUJ Round Table** Do we need Endoprosthetic Replacement and if yes, which kind of Implant? **A5**

Chair: Jörg van Schoonhoven (Germany), Daniel Nagle (United States of America), Igor Golubev (Russian Federation)

Q&A

4177	15:00	6'	Complete Ulnar Head Replacement <i>Diego Fernandez (Switzerland)</i>	0'
4178	15:06	6'	Partial Ulnar Head Replacement <i>Marc Garcia-Elias (Spain)</i>	0'
4179	15:12	6'	DRUJ Replacement <i>Luis R. Scheker (United States of America)</i>	0'
	15:18	0'	Discussion	18'

13:30–15:00 **HS16 IFSHT Closing Ceremony** **A8**

Nicola Goldsmith (United Kingdom)

16:30 17:00 **HS15 IFSSH Closing Ceremony** **A6-7**

Chair: Andreas Eisenschenk (Germany), Max Haerle (Germany), Jörg Van Schoonhoven (Germany)

Digital Poster Exhibition

Please find all ePosters in Hall B in the Poster Area. Here it is possible to scroll through the poster files as well as to contact the poster authors.

EP12 ePoster Arthroscopy

- 673 TFCC foveal tear with distal radius fracture
Hiroshi Ono (Japan), D. Suzuki, R. Fujitani
- 1550 Arthroscopically assisted Sauvé-Kapandji procedure for distal radioulnar joint (DRUJ) disorders
Yoon-Soo Kim (Japan), T. Nemoto, K. Iwasaki
- 1921 Localized nodular tenosynovitis of thumb CMC joint treated arthroscopically: a case report and review of literature
Abhijeet Wahegaonkar (India), S. Mane, A. Bansode, C. Karande Patil
- 891 Anterior Wrist Ganglions: External Signal Of Intra-Articular Pathology.
Marcos Cruz Sanchez (Spain), C. Martinez Andrade, O. Escudero Gonzalez, J. Morell Luque, M. Castro Alvarez, F. Garcia Torres, F. Castillo Garcia
- 1597 Arthroscopic Treatment of Scaphoid Non-union: A Case Report
John Hubert C. Pua (Philippines), G. Baylon
- 1580 Repair of injuries of the triangular Fibrocartilage complex with foveal avulsion by transosseous tunnels
Fabio Tandioy (Colombia), L. Sanchez Presiga, E. Arrubla Rojas, A. Rendon Montoya
- 680 The short-term outcomes of the arthroscopic repair of Triangular Fibrocartilage Complex Tears (II A) with the Whipple technique
Jun Tan (China), J. Chen
- 861 Wrist Arthroscopy - lessons learnt from the first 100 cases
Sonja Cerovac (United Kingdom)
- 1001 CMC thumb replacement with Touch implant, a comparative case series with CMC excision arthroplasty
Ajmal Ikram (South Africa)
- 1653 Single Strand Repair of Ulnar and Dorsal Tears of Triangular Fibrocartilage Complex: Mid-Term Results
Ahmed Naeem Atiyya (Egypt), R. Soliman, R. Diab, T. Fayyad, M. Sobhy, M. El Mahy
- 1523 Dorsal wrist ganglion in teenager: what else is there?
Carla Ricardo Nunes (Portugal), P. Xavier Fernandes, J. Rodeia, R. Teixeira
- 65 Postoperative immobilization in forearm pronation protects any scapholunate surgical repair. A kinetic study in cadavers.
Mireia Esplugas (Spain), G. Salva-Coll, M. Garcia-Elias, A. Lluch Bergada, I. Puig de la Bellacasa, N. Fernandez, M. Llusa-Perez

EP13 ePoster Assessment in Upper Extremity

- 544 The structural changes of carpal tunnel and median nerve in MRI before and 2 years after endoscopic carpal tunnel release
Toshimitsu Momose (Japan), H. Oshiba, Y. Nakatsuchi
- 1408 Functional Outcomes after Single-Bone-Forearm Surgery: A 3-Dimensional Analysis and Clinical Assessment
Sebastian Farr (Austria), B. Pobatschnig, F. Schachinger, A. Kranzl
- 1014 Comparisons of MRI and Arthroscopic Findings of Elbow Synovial Plica
Jae Woo Shim (South Korea (ROK)), M. Park, H. Lee, J. Kim, Y. Chae, H. Park
- 1016 Resection of dorsal wrist ganglion by assisted emptying technique , description of surgical technique
Julio Sandoval (Colombia), C. Romero, V. Vela
- 1920 Operative Versus Non-Operative Outcomes Of Middle Clavicle Fractures: A Systematic Review And Meta-Analysis
Kamil Amer (United States of America), D. Congiusta, J. Thomson, M. Li, R. Amer, A. Chaudhry, M. Reilly, M. Adams, M. Sirkin
- 949 Evaluate the functional results in patients with carpal tunnel syndrome surgery to endoscopic release of the median nerve in the General Hospital of the Armed Forces Quito -Ecuador from January 2016 - December 2017.
William Alvarez (Ecuador), F. Hidalgo Cisneros
- 1960 Clinical, surgical and imaging correlations in the carpal tunnel syndrome
Raluca Laura Stefanescu (Romania), F. Panculescu, I. Bordeianu
- 2006 Ultrasound diagnostics of A3 pulley injuries in multiple pulley injuries to define indication for a surgical repair
Christoph Lutter (Germany), J. Deeg, V. Schöffl, T. Bayer

EP14 ePoster Avascular Necrosis

- 334 The Choice of Operation for Young Patients of Kienböck's Disease: A Case Series.
Daisuke Kaji (Japan), K. Kawamura, H. Yajima, K. Murata, S. Omokawa, Y. Tanaka
- 671 Lunate preserving pronator quadratus pedicled bone graft in the treatment of Kienböck's Disease
G. Lee, Young Ho Shin (South Korea (ROK)), J. Yoon, J. Ryu, T. Lee, S. Choi, J. Kim
- 1124 Modified proximal capitate ostetotomy in a chronic isolated lunate dislocation - a new perspective in treatment of Kienbock disease?
Ireneusz Walaszek (Poland), K. Gizewska-Kacprzak
- 1928 Vascularised Bone Graft for Capitate Avascular Necrosis
Ahmet Savran (Turkey), C. Saruhan, M. Sener
- 1471 Management of avascular necrosis of the carpal bones - a clinical study
Daniel Vilcioiu (Romania), I. Cristescu, A. Ursache, D. Zamfirescu
- 1423 Dorsolateral biplane closing radial osteotomy for Kienböck's disease: long-term follow up.
Claudia Lamas-Gomez (Spain), L. Velasco-Gonzalez, M. Almenara-Fernandez, A. Grau-Blanes, R. Rojas-Sayol, A. Da Ponte-Prieto

EP15 ePoster Burns

- 623 Does enzymatic debridement allow us to perform conservative treatment on clinically deep hand burns? A retrospective review.
Irene Gallardo Calero (Spain), D. Rivas Nicolls, J. Aguilera Saez, J. Serracanta Domenech, P. Gomez Morell, R. Palao Domenech, J. Barret Nerin

EP17 ePoster Diagnostic Value

- 132 Examination on the clinical test of de Quervain's disease through tendon excursion of each test
Hiroyuki Ohi (Japan)
- 252 The experience of psychological distress in hand injured patients
Ingrid Kieran (United Kingdom), L. Vaclavek, M. Stone, E. George
- 819 Measuring Quality in Hand Surgery using Patient Reported Experience Measures
Hai Fon Lim (Singapore), P. Tong, D. Cen, R. Law, V. Rajaratnam
- 1032 Outcomes of De Quervain's release from a patient's perspective
Mark Tan (Singapore)
- 1959 Intraneural ganglion of the distal ulnar nerve - a case report
Johanna Ueberberg (Germany), M. Langer

EP16 ePoster Congenital and Pediatric Trauma

- 1904 Correction of Thumb Duplication: A Systematic Review of Surgical Techniques
Ted Welman (United Kingdom), R. Miller, D. Nikkhah
- 453 Radiographic remodeling of the proximal phalangeal head using a stretching exercise in patients with camptodactyly
Seok Woo Hong (South Korea (ROK)), J. Kim, H. Gong, G. Baek
- 1729 A rare cause for distal bone resorption of the fingers and drumstick deformity. The Hajdu-Cheney syndrome.
Isidro Jiménez (Spain), G. Muratore, J. Caballero, J. Rodriguez-Socorro, E. Morales-Mata, A. Marcos-García, J. Medina
- 1782 Use of Processed Human Nerve Allograft in Reconstruction of Brachial Plexus Birth Injuries
Aaron Berger (United States of America), H. Valencia, J. Grossman
- 518 Surgical Outcomes following Syndactyly Reconstruction - using JSSH Evaluation Form
Junko Otsuka (Japan), E. Horii, S. Koh, K. Fukumoto
- 1148 Long-term results of thumb polydactyly we operated.
Sohachi Toriyabe (Japan), S. Ushio
- 1847 Reasons to consult for late surgery and functional status of patients with congenital upper limb deformities persisting beyond childhood
Nathaniel Jr. Orillaza (Philippines), M. Ruanto
- 810 Bilateral Symmetrical Congenital Trigger Thumb and Middle Finger in a 2-Year-Old Child: A Case Report
Parunyu Vilai (Thailand), S. Vechmamontien

- 1040 Coracoid deformity in obstetric brachial plexus palsy
Yussef Ali Abdouni (Brazil), A. Costa, I. Chakkour
- 337 Atypical and Complex Thumb Duplication
Diana Martinez (Colombia), M. Gomez
- 194 Trans-scaphoid perilunate dislocation in a pediatric patient: a 10-month follow up
Francesca Teodonna (Spain), M. Olmeda Lozano, A. Macera, D. Lopez Dorado, H. Garlito Diaz, R. Serrano Serrano, R. Mascaraque Ortiz, J. Marquez Ambite
- 209 Obesity may be a risk factor for recurrent heterotopic ossification in post-traumatic stiff elbow among children
Yun Qian (China), C. Fan
- 723 Fate Mapping the Developing Limb Bud to Decipher the Origin of Congenital Hand Differences
Wee Leon Lam (United Kingdom), S. Dillan, J. Oh, L. Freem, H. Sang, M. Davey
- 311 Culture and transplant of human fibroblast cells (allograft) on amniotic membrane for treatment of Epidermpylsis bullosa
Mohammad Javad Fatemi (Iran), S. Farokh Forghani, S. Shafieyan, E. Taghi abadi
- 1865 Treatment of pink pulseless hand following supracondylar humeral fractures in children at our hospital
Daishi Hamada (Japan), H. Morii, I. Koichi
- 1156 Kaplan dislocation in children: a rare pathology and a new reduction technique
Jhon Fredy Castaneda Lopez (Colombia), T. Alvarado, M. Mahecha, D. Rincon
- 1094 Long term results of dynamic tenodesis for mangement of camptodactyly as an intrinsic minus deformity.
Essam ElKaref (Egypt)
- 1309 Does the Use of a Parent's Cell Phone Reduce Anxiety During Cast Removal?
Joshua Abzug (United States of America), S. Tzeuton, D. Hogarth, A. Case, N. O'Hara
- 1308 Free functional muscle transfer for reanimation of elbow flexion in children with Arthrogryposis
Vinay Itte (United Kingdom), R. Bains, G. Bourke, S. Kay
- 853 Complications of Hardware Removal in Pediatric Upper Limb Surgery - Is It Safe?
Sebastian Farr (Austria), P. Scheider, R. Ganger
- 548 Does operative timing of pediatric supracondylar humerus fractures affect postoperative early complications?
Seigo Suganuma (Japan), K. Tada, H. Yasutake, T. Horii, M. Takata, K. Shimanuki, D. Tsuji, K. Shimokawa, H. Tsuchiya
- 247 Single-stage radialization and pollicization for radial longitudinal deficiency with thumb hypoplasia
Pobe Luangjarmekorn (Thailand), P. Kitidumrongsook
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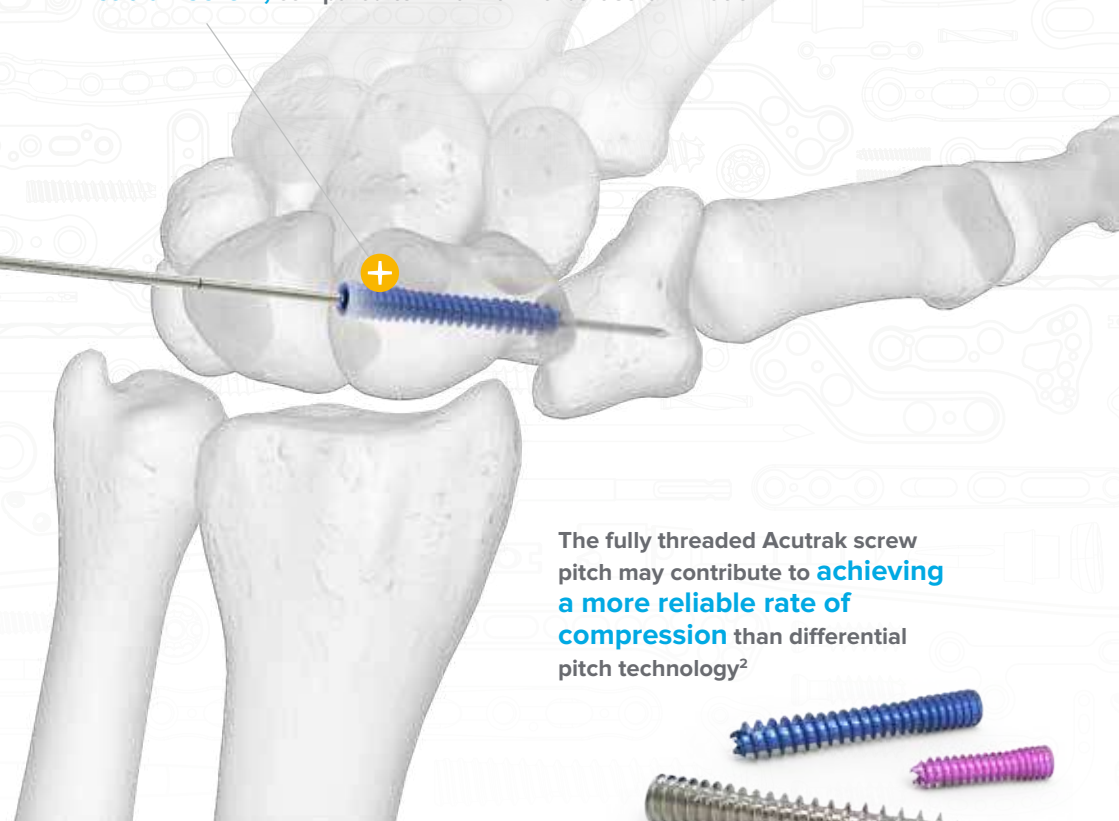
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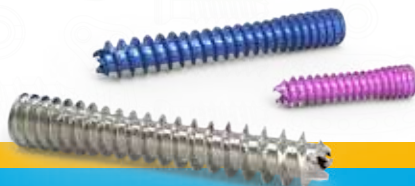


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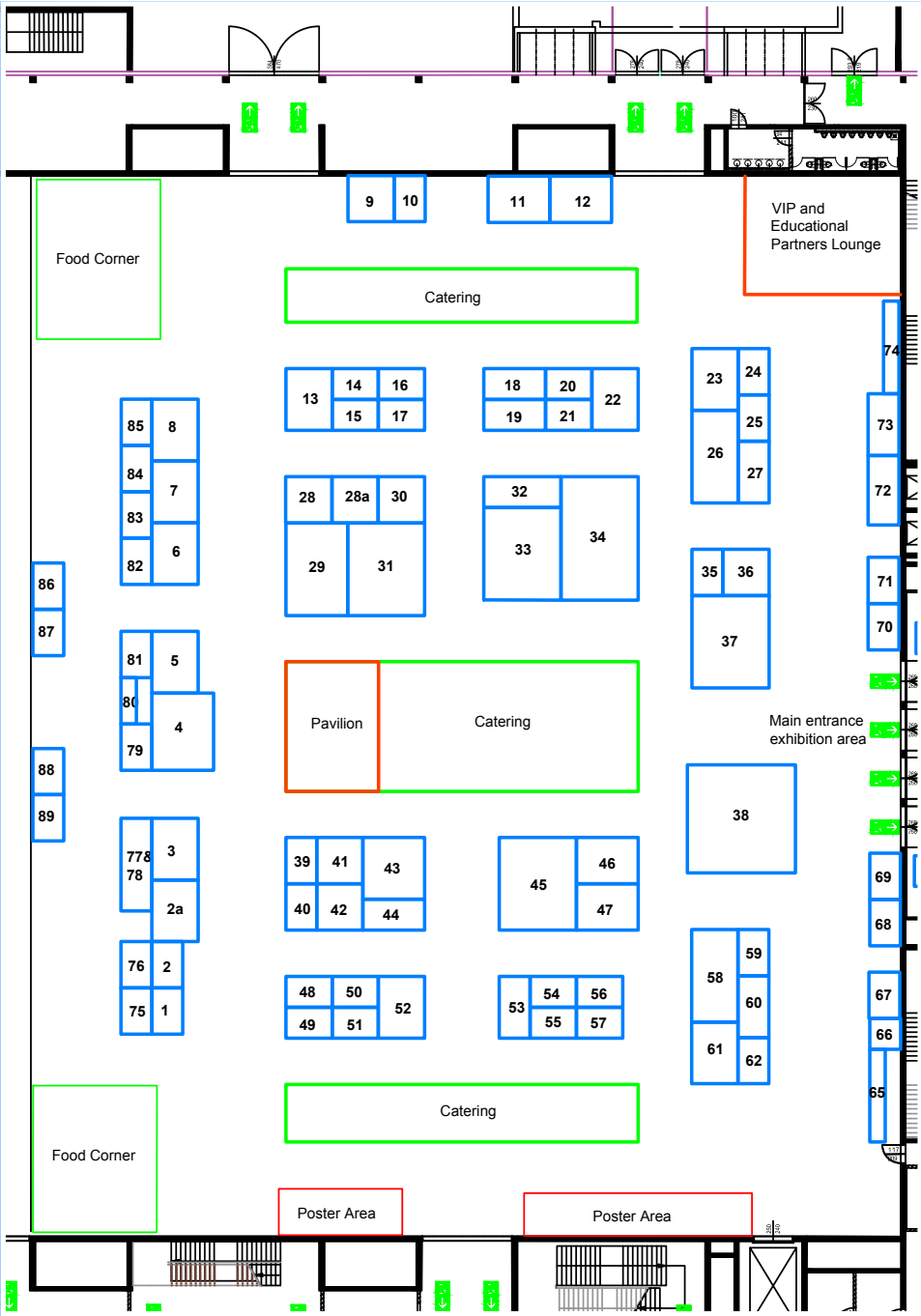
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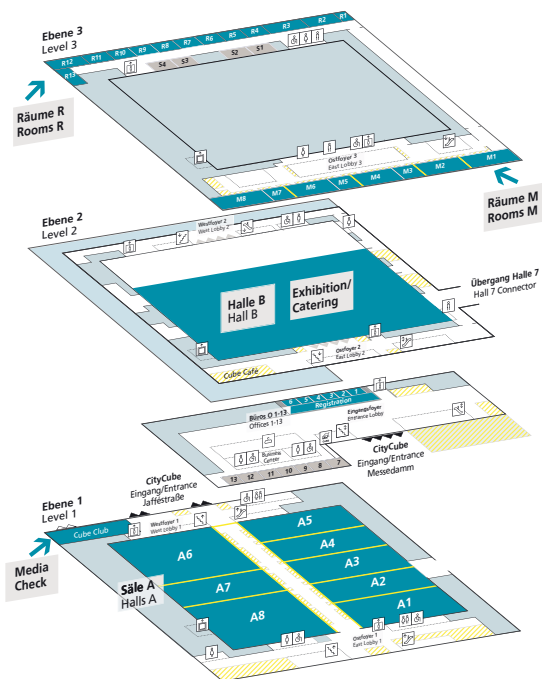
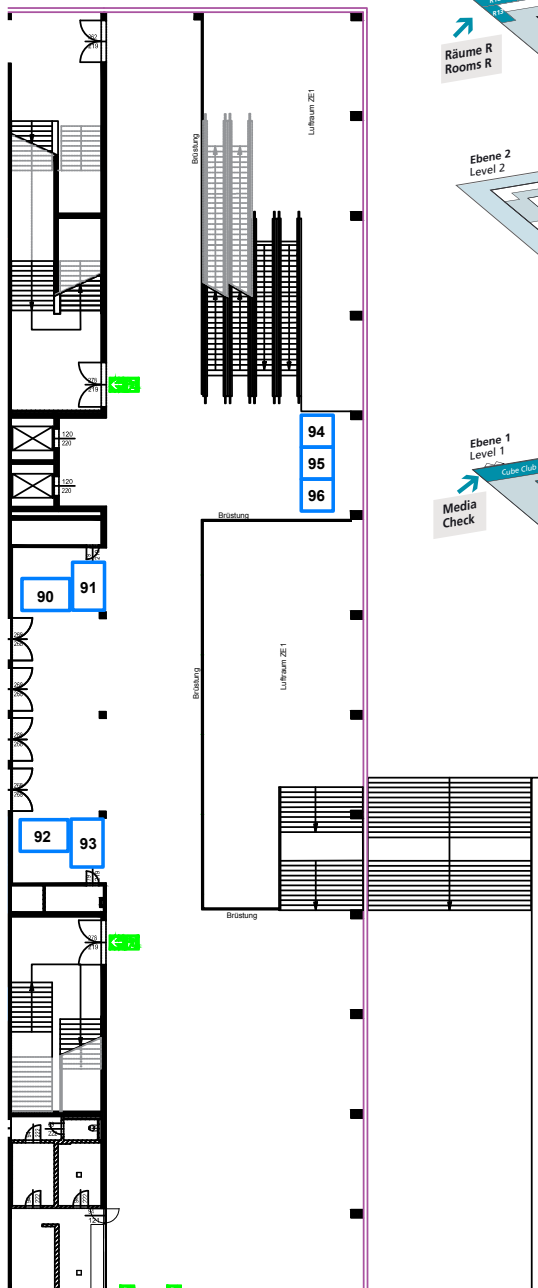
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Xiapex[®] Abbreviated Prescribing Information: (see Xiapex Summary of Product characteristics for full Prescribing Information) **Presentation:** Powder and solvent for solution for injection for intralesional use. The vial of powder contains 0.9 mg *collagenase clostridium histolyticum*. The powder is a white lyophilised powder and the solvent is a clear colourless solution. **Indications:** Treatment of Dupuytren's contracture in adult patients with a palpable cord. **Dosage:** Xiapex must be administered by a physician appropriately trained in the correct administration of the medicinal product and experienced in the diagnosis and management of Dupuytren's disease. Administration of a local anaesthetic medicinal product prior to injection of Xiapex into a Dupuytren's cord is not recommended, as it may interfere with proper placement of the injection. The recommended dose of Xiapex is 0.58 mg per injection into a palpable Dupuytren's cord. For an MP joint, each dose is administered in an injection volume of 0.25 ml (requiring 0.39 ml solvent for reconstitution). For a PIP joint, each dose is administered in an injection volume of 0.20 ml (requiring 0.31 ml solvent for reconstitution). Injections in up to two cords or two affected joints in the same hand can be administered according to the injection procedure during a treatment visit. Two palpable cords affecting two joints may be injected or one palpable cord affecting two joints in the same finger may be injected at two locations during a treatment visit. Each injection contains a 0.58 mg dose. If the disease has resulted in multiple contractures, additional cords may be treated at other treatment visits approximately 4 weeks apart. Approximately 24–72 hours after injection, a finger extension procedure may be performed to facilitate cord disruption. If a satisfactory response has not been achieved, injections and finger extension procedures may be repeated up to 3 times per cord at approximately 4-week intervals. Each vial of Xiapex and sterile solvent for reconstitution should only be used for a single injection. If two cords of affected joints on the same hand are to be treated during a treatment visit, separate vials and syringes should be used for each reconstitution and injection. **Contraindications:** Hypersensitivity to the active substance or to any of the excipients. **Warnings and Precautions:** **Allergic reactions** – 17% of Xiapex-treated patients in phase 3 placebo-controlled clinical studies had mild allergic reactions (i.e. pruritus). Physicians must be prepared to address any severe local or systemic allergic reactions including the potential for anaphylaxis following injection, including the potential for such reactions following repeated use. Whilst there is no evidence from the clinical data of an increased risk of serious allergic reactions upon repeated injections, the potential for such reactions following repeated use cannot be excluded. **Tendon rupture or other serious injury to the injected extremity** – injection of Xiapex into collagen containing structures of the hand other than the Dupuytren's cord may result in damage to those structures including possible tendon rupture or ligament damage. Injections into cords affecting the PIP joint of the 5th finger must not be more than 2 to 3 mm in depth and not more than 4 mm distal to the palmar digital crease. Patients should be instructed to contact their physician in case of symptoms of tendon rupture. **Use in patients with coagulation disorders** – Xiapex must be used in caution in patients with coagulation disorders or those taking anticoagulants. Use of Xiapex in patients who have received anticoagulants (with the exception of up to 150 mg acetylsalicylic acid daily) within 7 days prior to receiving an injection of Xiapex is not recommended. **Immunogenicity** – as with any non-human protein medicinal product, patients may develop antibodies to the therapeutic protein. Since the enzymes in Xiapex have some sequence homology with human matrix metalloproteinases (MMPs), antidrug antibodies could theoretically interfere with human MMPs. No safety concerns related to the inhibition of endogenous MMPs have been observed, in particular no adverse events indicating the development or exacerbation of autoimmune diseases or the development of a musculoskeletal syndrome but the potential for it to occur cannot be excluded. If this syndrome were to develop, it would occur progressively and is characterized by one or more of the following signs and symptoms: arthralgia, myalgia, joint stiffness, stiffness of the shoulders, hand oedema, palmar fibrosis and thickening or nodules forming in the tendons. **Post-treatment surgery** – the impact of treatment with Xiapex on subsequent surgery, if needed, is not known. **Drug Interactions:** Use of Xiapex in patients who have received tetracycline antibiotics e.g. doxycycline, within 14 days prior to receiving an injection of Xiapex is not recommended. **Pregnancy & Lactation:** Not recommended in pregnancy. Caution should be exercised when Xiapex is administered to a nursing breast-feeding woman. **Driving and operating machinery:** Xiapex may have a major influence on the ability to drive and use machines due to swelling and pain in the treated hand. Other minor influences include dizziness, paraesthesia, hypoesthesia, and headache, see side effects. Patients must be instructed to avoid potentially hazardous tasks such as driving or using machines until it is safe to do so or as advised by the physician. **Side effects:** In clinical trials, the most frequently reported adverse reactions during Xiapex therapy were local injection site reactions such as oedema peripheral (local to the injection site), contusion (including ecchymosis), injection site haemorrhage and injection site pain. Injection site reactions were very common, occurring in the vast majority of patients, were mostly mild to moderate in severity and generally subsided within 1–2 weeks post injection. Serious adverse reactions of tendon rupture, tendinitis, other ligament injury and complex regional pain syndrome related to the medicinal product were reported. Anaphylactic reaction was reported in a patient previously treated with Xiapex (1 case). Very commonly reported adverse reactions include lymphadenopathy, pruritus, ecchymosis, pain in extremity, oedema peripheral (including injection site oedema and oedema), injection site haemorrhage, injection site pain, injection site swelling, tenderness and contusion. Commonly reported adverse reactions include lymph node pain, paraesthesia, hypoesthesia, burning sensation, dizziness, headache, nausea, blood blister, blister, rash, erythema, hyperhidrosis, arthralgia, joint swelling, myalgia, axillary pain, inflammation, injection site inflammation, swelling, injection site erythema, injection site pruritus, injection site warmth, injection site vesicles, skin laceration. **Overdose:** Overdose is expected to be associated with increased local injection site reactions. Provide routine supportive care and treat symptomatically. **Legal Category:** POM. **Marketing Authorisation Holder:** Swedish Orphan Biovitrum AB (publ), SE-112 76 Stockholm, Sweden. **Package Quantities, Marketing Authorisation Numbers:** Xiapex 0.9 mg powder and solvent for solution for injection, EU/1/11/671/001. **Further information is available on request from:** medical.info@sobi.com, tel: +46 (0)8 697 20 00. **Date of Preparation:** March 2019.

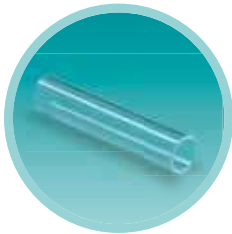


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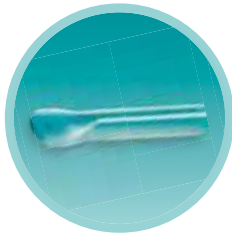
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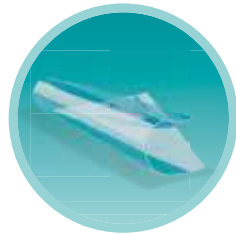
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Tuesday, 18 June 2019

12:45–13:45

WS01 A1 Medartis AG

medartis®

Distal radius fractures: Importance of different treatment strategies – working on guidelines. A dialogue between international experts – what is going on in the future?

60

Chairmen: Hermann Krimmer (Germany), Wolfgang Hintringer (Austria)
Speakers: Scott Edwards (USA), Rohit Arora (Austria), Nicola Bizzotto (Italy), Giulio Lauri (Italy)

WS02 A3 Stryker GmbH & Co. KG

stryker

Complex Hand & Wrist Trauma Case Controversies

60

Gabor Szalay (Germany), Filip Stockmans (Belgium), Fraser Leversedge (USA)

WS03 A2 Johnson & Johnson
 Medical Devices Companies /
 DePuy Synthes

 **DePuySynthes**
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Best practice in wrist fracture treatment – Tips, tricks and pitfalls

Welcome & Introduction

5

Jesse Jupiter (USA)

Distal radius fractures with concomitant ulnar fractures – when do we need to fix the ulna?

10

Valerie Nuñez (United Kindom)

Distal radius fracture reduction techniques – tips, tricks and pitfalls

15

Martin Langer (Germany)

Plate positioning and complications following distal radius plate fixation – what needs to be considered?

10

Niels Schep (Netherlands)

Landmarks for distal radius plate positioning – tips, tricks and pitfalls

15

Martin Langer (Germany)

Summary & Close

5

Jesse Jupiter (USA)

WS04 A4

Arthrex GmbH



**A glimpse into the future –
Wrist Endoscopy and Nanoscope Technology**

An Introduction to Nanoscope Technology <i>Sanj Kakar (USA)</i>	10
Nanoscope Case Report <i>Maurizio Calcagni (Switzerland)</i>	10
Centerline Endoscopic Carpal Tunnel Release – My Personal Experience <i>Alexander Schütz (German)</i>	10
Q&A and Hands on Centerline & Nanoscope	30

WS05 A5

GROUPE LEPINE



**COBRA – MAIA – INCA:
Trends in wrist and hand surgery**

COBRA Wrist Hemiarthroplasty for Distal Radius Fractures: Rationale, Indications and Results <i>Guillaume Herzberg (France), Marion Burnier (France)</i>	9+3
Trapeziometacarpal Prostheses: Myth or Fact? <i>Joel Rezzouk (France)</i>	8
History of Trapeziometacarpal prostheses and specificities of the MAIA prosthesis <i>Jacques Teissier (France)</i>	12
MAIA Dual mobility: Why and for what outcomes? <i>Stéphane Barbary (France)</i>	8
INCA resurfacing implant in Scapho-Trapezio-Trapezoidal osteoarthritis <i>Jacques Teissier (France)</i>	5
Cases presentation and discussion	15

Wednesday, 19 June 2019

12:45–13:45

WS06 A2 Orfit Industries

Orthotic designs for sport injuries

Björn Le Roy (Belgium)

orfit The personal fit

IN ORTHOTIC FABRICATION
FOR PHYSICAL REHABILITATION

60

WS07 A3 Stryker GmbH & Co. KG

Current Perspectives: Total CMC Arthroplasty

*Mathias Glehr (Austria), Gilles Dautel (France),
Mike Hayton (United Kingdom)*

stryker

60

WS08 A1 Zimmer Biomet

ARPE CMC 1 Arthroplasty: Why and How?

*Frederik Verstreken (Belgium), Mohssen Hakimi (Germany),
Alistair Phillips (UK)*

ZIMMER BIOMET
Institute®

60

WS09 A5 Acumed

Hand & Wrist best practice; Thinking outside the box

Introduction

Back and forth case presentation

Q&A

Randy Bindra (Australia), Eduardo R. Zancolli (Argentina)

+ acumed®

10

30

20

WS10 A4 Aptis Medical, LLC

Total Distal Radio-Ulnar Joint Replacement Using a Semi-Constrained Prosthesis

Luis R. Scheker (USA)

Survival of the Aptis implant and tips and tricks to avoid complications

Hans Tromborg (Denmark)

APTIS
Putting Ideas in Motion

30

30

WS11 A8 Skeletal Dynamics
Managing the Unstable Elbow
Jorge L. Orbay (USA)

60

Thursday, 20 June 2019

12:45–13:45

WS12 A2 Axogen Inc.



**A Case Based Symposium on the Role of Processed Nerve
Allograft for Mixed, Motor and Sensory Nerve Repair**

60

*Ivan Ducic (USA), Joaquim Casañas (Spain),
Kiran Anderson (Denmark), Jeffrey Greenberg (USA)*

WS13 A8 Medartis AG



**Partial and total wrist arthrodesis in difficult situations with the
latest developments. A discussion with international experts
concerning current treatment options**

60

Chairman: Michael Sauerbier (Germany)

*Speakers: Mohssen Hakimi (Germany), Arnold Peter Weiss (USA),
Radek Kebrle (Czech Republic), Andreas Eisenschenk (Germany),
Schot Levin (USA)*

WS14 A1 Zimmer Biomet



**Fractures around distal radius and scaphoid:
the “challenges”**

60

Frederik Verstreken (Belgium), Alex Lluch (Spain)



WS15	A3	KERIMEDICAL SA	
		Reaxon® Chitosan Nerve Guide: Why is it our standard technique in our Hospital? <i>Leila Harhaus (Germany)</i>	20
		The 1st 3D Planification software for CMCJ: from the CT-scan to the positioning guide <i>Joris Duerinckx (Belgium)</i>	20
		CMCJ and revision: experience, tips & tricks <i>Danny Vandenberghe (Belgium)</i>	10
		Difficult cases that make Touch® the best choice <i>Gero Meyer (France)</i>	10



WS16	A6-7	CONMED	
		All Suture Button: MicroLink® – How to improve results regarding CMC joint arthritis treatments? <i>Joaquim Casañas (Spain)</i>	60



WS17	A5	NEWCLIP TECHNICS SAS	
		Management of Complex Wrist Cases <i>Mark Ross (Australia), Giuseppe Zampetti (Italy), Nick Smith (Australia), André Gay (France)</i>	60

Evening Events

Welcome Cocktail

17 June 2019 | 19:30 – 23:00 h | CityCube

from 19:30 h

directly after the Opening Ceremony



Berlin Night

Berlin Night

18 June 2019 | 21:00 – 03:00 h | Kühlhaus

Booking & Fees

Bookable via Congress Registration

Costs per person: EUR 50

from 21:00 h

Party with Berlin "Currywurst", Beer and other Drinks

DJ Eric Know with Rool (Saxophon)
and Philipp Kullen (Percussion)



Berlin Night

Gala Dinner & Party

20 June 2019 | 19:30 – 00:00 h | The Ritz Carlton

Booking & Fees

Bookable via Congress Registration

Costs per person: EUR 120

SOLD OUT



Gala Dinner



Berlin Night



Gala Dinner

Speaker Information

Speakers must upload and validate their presentations online prior to the Congress or during the Congress in the Media Check (located in the CubeClub behind the lecture rooms A1-8 on level 1).

All speakers received an invitation with an [access code](#) to upload their presentation online. If your session is a short paper session the upload prior to the congress is mandatory.

Media Check

In case you are not able to upload your presentation beforehand or you would like to change it please submit the PowerPoint or PDF file (on USB flash drive or CD-Rom) in the Media Check [no later than 2 hours before the start of your session](#). You will need your access code to hand-in or change your presentation also during the Congress!

Opening Hours Media Check

Monday, 17 June	08:00-19:30
Tuesday, 18 June	07:00-19:00
Wednesday, 19 June	06:30-19:00
Thursday, 20 June	06:30-19:00
Friday, 21 June	06:30-16:30

Speakers will find MS Windows 10 computers in the Media Check to load and check their slides. All computers will have PowerPoint 2016 and Adobe Reader installed. The technical team will be at your disposal to help you in Media Check.

Procedures in the lecture halls

There is no need to bring your laptop to the lecture hall, since it is not allowed to use it for presentation. Your presentation will be sent through the computer network from the Media Check directly to the lecture hall. A technician is available in the lecture hall and will start your presentation.

All speakers are asked to [take a seat in the front row](#). The lectern is equipped with a fixed microphone. At the end of your presentation you are requested to take a mobile microphone and to leave the lectern to answer the questions from the audience. The next speaker is asked to enter the stage already now to meet the time schedule.

All presentations in room A6-7 will be filmed and live-streamed on the Internet – therefore the speakers need to agree to the recording during the uploading process of the presentation.

Format and Structure of your Presentation

The Scientific Committee recommends:

1. Standard Paper Presentation: 15 slides
2. Short Paper Presentation (3 minutes): 5 slides, ideally no videos
3. Invited Presentations: Number of slides depends on the individual presentation time

It is mandatory to include a financial disclosure statement in the presentation.

Format

- The projection will be in 16:9 format so please be aware that your presentation will show black bars if you are using another presentation format.
- Presentations in PowerPoint and PDF format will be accepted. All computers will have PowerPoint 2016 and Adobe Reader installed. If you have created your PowerPoint presentation with a Mac, be aware that it will be projected from a PC. We recommend that you first test your presentation on a Windows PC. If you created your presentation using Apple Keynote, please save it as a PDF or as a PowerPoint presentation. For presentations created in Office for Mac PowerPoint 2004, be sure to add the extension ppt at the end of your file (for example – mypresentation.ppt).
- Presentations using non-standard Windows 10 or Office 2016 fonts should be saved with embedded fonts. Linked videos should be saved as an extra file to the same location as the PowerPoint file. Please use standard Windows 10 codecs to create those videos.
- To avoid problems with display fonts, please only use fonts common to both platforms (Arial, Courier, Courier New, Geneva, Georgia, Helvetica, Times, Times New Roman).
- Most modern video formats are supported, for example all standards (*.wmv, *.mpg, *.avi) that can be played from standard MS Windows 10 installed computers with Windows Media Player. Additionally, MOV, DivX, MPEG-4 und H.264 video formats can be played, too. Please upload any video files in addition to your PowerPoint presentation in the Media Check.
- On the laptop on the lectern you will see exactly what is shown on the big screen (cloned screen mode). Presenter View is not possible, but you can have your speaker notes printed out in the media check.
- No file size limit is imposed.

The duration of your presentation will be shown on the screen and is visible for the audience.

Kindly follow the instructions of the chairpersons and please strictly keep to the time limit of your presentation!

Online Programme

Please note that there will be no detailed printed Congress Programme. The detailed Programme is available on the Website and in the Congress App.

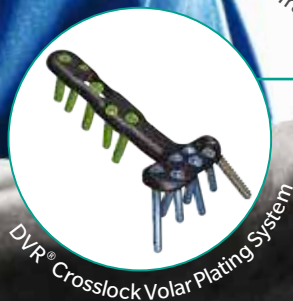


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