

# Program

Day 1 June 29 (Thu)

## Day1 • Room 1 (1F Medium Hall "Earth")

**Quick Review Fracture OTAKU: Quick review of the papers in 2022**

(6 : 50~7 : 50)

Chairs: N. Saka  
K. Shigemoto

1-1-QR-1	AI.....	S23
	Nagoya Univ. Graduate School of Medicine	Yoichi Sato
1-1-QR-2	Atypical Femoral Fracture .....	S23
	Dept. of Orthop. Surg., Osaka City General Hosp.	Yosuke Nagai
1-1-QR-3	Tibia plateau fracture .....	S23
	Teikyo Univ.	Takahiro Inui
1-1-QR-4	Pediatric femoral shaft fracture .....	S23
	Teikyo Univ.	Tomoo Nakagawa
1-1-QR-5	Proximal forearm fracture .....	S23
	Higashikawaguchi Hosp.	Shuya Takahashi

**Invited Lecture1**

(8 : 00~9 : 00)

Chair: M. Tokunaga

1-1-IL1-1	Treatment of hyperextension tibial plateau fracture and related ligament injuries .....	S5
	Dept. of Orthop. Surg., Shanghai JiaoTong Univ. 6th People's Hosp.	Luo Cong-Feng

**Panel Discussion1 Postero-lateral fragment of Tibial plateau fracture  
- Solutions for operative approach and fixation**

(9 : 10~10 : 35)

**Chairs: H. Minehara  
S. Kitada**

**Commentator: Luo Cong-Feng**

- 1-1-PD1-1 Treatment Strategy for the Posterolateral Fragment in Tibial Plateau Fracture ..... S127  
Dept. of Musculoskeletal Traumatology, Faculty of Medicine, Dentistry and Pharmaceutical Sciences, Okayama Univ. / Dept. of Orthop. Surg., Science of Functional Recovery and Reconstruction, Okayama Univ. Graduate School of Medicine, Dentistry and Pharmaceutical Sciences Masanori Yorimitsu
- 1-1-PD1-2 The strategy for posterolateral fragments associated with tibial plateau fractures Schatzker Type4 equivalent ..... S128  
The Orthop. Trauma Center, Shonan Kamakura General Hosp. Kentaro Futamura
- 1-1-PD1-3 How do I address Posterolateral plateau using Modified Anterolateral approach? ..... S129  
Dept. of Orthop. Surg., Korea Univ. Guro Hosp., Seoul, Korea Jong Keon Oh
- 1-1-PD1-4 How should the appropriate approach to the posterolateral fragments in tibia plateau fractures be chosen? ..... S130  
Dept. of Orthop. Surg., Fukushima Medical Univ. School of Medicine / Dept. of Traumatology and Reconstructive Surg., Fukushima Medical Univ. School of Medicine Shunsuke Sato

**Symposium1 Optimal approach and fixation methods for Pilon fractures**

(10 : 45~12 : 10)

**Chairs: T. Noda  
K. Matsui**

**Commentator: Sean E. Nork**

- 1-1-SY1-1 Knacks & pitfalls of the bone and soft tissue reconstruction in pilon fractures ..... S34  
Shinyurigaoka Trauma Reconstruction Center / Dept. of trauma, Fukushima Medical Univ. Toshiya Kudo
- 1-1-SY1-2 Operative Treatment of Pilon Fracture via Anterolateral Approach featuring “Kesagake Approach” ..... S35  
Dept. of Orthop. Surg., Kaisei Hosp., Kagawa, Japan Kiyoto Kinugasa
- 1-1-SY1-3 Extensile approach for pilon fractures ..... S36  
The Orthop. Trauma Center, Shonan Kamakura General Hosp. Kentaro Futamura
- 1-1-SY1-4 Posterior approaches and fixation for Pilon's fracture -Applications and limitations of the posterolateral and posteromedial approaches ..... S37  
Dept. of Emergency and Critical Care Medicine, Nara Medical Univ. Kenichi Nakano

**Noontime Lecture 1**  
(12 : 25~13 : 25) **Chair: H. Minagawa**

1-1-NL1-1 It's not too late from now on Ultrasonography for trauma ..... S551  
Dept. of Orthop., Yokohama City Univ. Hosp., Yokohama, Japan Kazuma Miyatake

**Invited Lecture2**  
(13 : 40~14 : 40) **Chair: H. Yajima**

1-1-IL2-1 Scapula Fractures ..... S6  
Regions Hosp. / Univ. of Minnesota Peter A. Cole

**Symposium2 Treatment Guidelines for Combined Shoulder and scapula injuries**  
(14 : 50~16 : 10) **Chairs: Y. Nakagawa**  
**Y. Nagai**  
**Commentator: Peter A. Cole**

1-1-SY2-1 Shoulder Girdle Complex Injury Article Review ..... S42  
Dept. of Orthop. Surg., Okayama City Hosp. Yo Kinami

1-1-SY2-2 Classification of combined shoulder girdle injuries and indications for surgery ..... S43  
Advanced Critical Care and Emergency Center, Yokohama City Univ. Medical Center, Kanagawa, Japan.  
Masahiro Matsumoto

1-1-SY2-3 Surgical procedure for Scapula Fracture ..... S44  
Dept. of Orthop. Surg., Osaka City General Hosp. Yosuke Nagai

1-1-SY2-4 Treatment of scapular nonunion ..... S45  
Ryokusenkai Yonemori Hosp. Orthop. Dept. Yoshinori Ueno

**Invited Lecture3**  
(16 : 25~17 : 25) **Chair: M. Shirahama**

1-1-IL3-1 Tactics for induced membrane technique/  
Induced membrane technique: tips and tricks ..... S7  
Paris Sorbonne Univ. Alain Charles Masquelet

## Day1 • Room 2 (6F Communication Hall)

### Conference Award Lectures

(8 : 10~9 : 10)

Chairs: H. Ikegami  
H. Inoue

Judges: A. Mogami  
Y. Watanabe

- 1-2-AW-1 Objective Load Capacity Determination for Patients with the Femur Diaphysis Comminuted Fractures -Patient-Specific Finite Element Analysis- ..... S25  
Dept. of Orthop. Surg., Graduate School of Medicine, Chiba Univ. Yusuke Matsuura
- 1-2-AW-2 Anatomical relation between S2 transiliac-transsacral screws entrance points and superior gluteal artery in fragility fracture of the pelvis ..... S25  
Dept. of Orthop. Surg., Kobe City Medical Center General Hosp. Shinnosuke Yamashita
- 1-2-AW-3 Risk factor assessment of delayed union and nonunion after intramedullary nailing for subtrochanteric femoral fractures ..... S26  
Dept. of Orthop. Surg., Hyogo Prefectural Kakogawa Medical Center, Kakogawa, Japan  
Toshiki Kitamura
- 1-2-AW-4 Development and modification of a CT-based finite element analysis model for verifying the effect of shock-absorbing floors on hip fracture prevention ... S26  
Dept. of Orthop. and Trauma Research, Graduate School of Medical and Dental Sciences,  
Tokyo Medical and Dental Univ., Tokyo, Japan Yoto Oh
- 1-2-AW-5 Factors of bone union prolongation for atypical femoral fractures examined including pathological findings ..... S27  
Dept. of Orthop. Surg., Komaki Hosp., Miyazaki, Japan Wataru Komaki
- 1-2-AW-6 Femoral canal isthmus is more proximal than extreme point of bowing in femurs with greater anteversion of femoral neck..... S27  
Dept. of Orthop. Surg., Enshu Hosp., Shizuoka, Japan Yuki Murakami

**Combined Session of the Japanese Society of Orthopedic Ultrasound (JASOU) and the JSFR**

**Tomorrow's practice will change! - Recommendations for ultrasound practice in trauma**

**(9 : 25~10 : 55)**

**Chairs: M. Hirata  
Y. Watanabe**

- 1-2-OU-1 Let's try ultrasound examination for shoulder trauma ..... S513  
Sagamihara Kyodo Hosp. Shinya Tsujiku
- 1-2-OU-2 Recommendations for ultrasound examination of pediatric fractures and dislocations around the elbow ..... S514  
Trauma and Reconstruction Center, Teikyo Univ. School of Medicine, Tokyo, Japan / Dept. of Orthop. Surg.,  
Teikyo Univ. School of Medicine, Tokyo, Japan Tomoo Nakagawa
- 1-2-OU-3 How I use ultrasound for distal radius fractures ..... S515  
JCHO Tokyo Takanawa Hosp. Takahiro Kashiyama
- 1-2-OU-4 Recommendations of clinical application of musculoskeletal ultrasound for proximal femur fractures ..... S516  
Niigata Rousai Hosp. / Niigata Central Hosp. Yohei Sakai
- 1-2-OU-5 Recommendations for sonography of fractures and dislocations around the ankle ..... S517  
Dept. of Orthop. Saiseikai Nara Hosp. Yoshiyuki Kamatani
- 1-2-OU-6 Ultrasound-guided Exercise Therapy for Postoperative Contracture of Fracture around the Knee ..... S518  
Dept. of Rehabilitation, Sagamiharakyo Hosp. Toru Miyata

**Presentations related to Symposium 4 Cancer patients • Femoral metastasis**

(11 : 10~12 : 10)

**Chair: H. Ueda**

- 1-2-SR4-1 Mortality after fracture injury in patients with malignant tumor .....S65  
Dept. of Orthop. Surg., Yamagata Prefectural Central Hosp., Yamagata, Japan Yasushi Naganuma
- 1-2-SR4-2 Problems of the fracture treatment in patients with malignant tumor .....S65  
Dept. of Orthop., Graduate School of Medical Science,  
Kyoto Prefectural Univ. of Medicine, Kyoto, Japan Naoyuki Horie
- 1-2-SR4-3 Outcome of femur metastases based on prognosis prediction of Katagiri score  
.....S66  
Dept. of Orthop. Surg., The Jikei Univ. Kashiwa Hosp., Kashiwa, Chiba Naoya Inagaki
- 1-2-SR4-4 Surgical experience of metastatic femur tumor and Cancer Board.....S66  
Dept. of Orthop. Surg., The Jikei Univ. School of Medicine, Tokyo, Japan Nobuyuki Komukai
- 1-2-SR4-5 The relationship between surgical method and survival period for femoral  
metastatic bone tumors.....S67  
Dept. of Orthop. Surg., Japanese Red Cross Kyoto Daiichi Hosp., Kyoto, Japan Hideki Ueda
- 1-2-SR4-6 Outcome of treatment of pathological fracture of the proximal femur due to  
bone metastasis using tumor prosthesis .....S67  
Dept. of Orthop. Surg., Univ. of Miyazaki, Miyazaki, Japan Masaru Hiyoshi
- 1-2-SR4-7 Indication of radiation therapy after intramedullary nailing for femoral shaft  
pathological/impending fracture .....S68  
Dept. of Orthop. and Spinal Surg., Graduate School of Medical and Dental Sciences,  
Tokyo Medical and Dental Univ., Tokyo, Japan Takumi Kaku

**Noontime Lecture 2**

(12 : 25~13 : 25)

**Chair: S. Obara**

- 1-2-NL2-1 Ender nailing ..... S552  
Kamitsuga General Hosp. Satoshi Takahata

**Challenging Case Session1 Tibial Plateau Fractures**

(13 : 40~14 : 40)

**Chair: T. Noda**

- 1-2-CC1-1 C3.3 tibial plateau fracture treatment strategies including multiple buttressing, metaphyseal reconstruction ..... S183  
 Trauma Center, Shonan Kamakura General Hosp. Masayuki Hasegawa
- 1-2-CC1-2 A case of combined proximal and diaphyseal tibial fracture ..... S184  
 Dept. of Emergency and Critical Care Medicine, Nara Medical Univ., Nara, Japan / Trauma Reconstruction Center, Shin-yurigaoka General Hosp. Hironobu Konishi
- 1-2-CC1-3 Treatment strategy for tibial plateau fracture extending to the diaphysis in our hospital ..... S185  
 Trauma Center, Nagasaki Univ. Hosp. Shingo Ota

**Challenging Case Session2 Pilon Fractures**

(14 : 50~15 : 50)

**Chair: K. Futamura**

- 1-2-CC2-1 Challenging Case: Pilon fractures with impacted anterolateral articular surface ..... S187  
 Trauma and Reconstruction Center, Teikyo Univ. School of Medicine, Tokyo, Japan / Dept. of Orthop. Surg., Teikyo Univ. School of Medicine, Tokyo, Japan Tomoo Nakagawa
- 1-2-CC2-2 A case of post-traumatic osteoarthritis after pilon fracture ..... S188  
 Dept. of Emergency Healthcare and Disaster Medicine, Faculty of Medicine, Dentistry and Pharmaceutical Sciences, Okayama Univ. Takenori Uehara
- 1-2-CC2-3 A case of pediatric pilon fracture with tibiofibular diaphyseal and ankle fracture ..... S189  
 Emergency and Critical Care, Kyushu Univ. Hosp., Fukuoka, Japan Kenta Momii

**Presentations related to Panel Discussion 1 Tibial plateau fractures**

(16 : 00~16 : 40)

Chair: T. Asahara

- 1-2-PR1-1 Experiment with Modified Frosch approach for posterolateral tibial plateau fracture ..... S131  
Dept. of Orthop. Surg., Takachiho National Health Hosp., Miyazaki, Japan Toshiki Kamiya
- 1-2-PR1-2 Treatment of tibial plateau fractures with depression fragments by Malleable Bone Tamp ..... S131  
Kochi Health Sciences Center Toshiyuki Matsumoto
- 1-2-PR1-3 Tibial plateau fractures with posterolateral bone fragments  
~ Usefulness and limitations of the medial head of the gastrocnemius detaching approach~ ..... S132  
Trauma Reconstruction Center, Shinyurigaoka General Hosp. / Dept. of Orthop. Surg.,  
Nara Medical Univ., Nara, Japan Hironobu Konishi
- 1-2-PR1-4 Two cases of proximal tibia fracture with posterolateral fragment:  
Rduction from posterior, fixation from lateral ..... S132  
Sapporo Higasi Tokushukai Hosp., Sapporo, Japan Kazuo Sato
- 1-2-PR1-5 Two cases of two-stage surgery for tibial plateau fractures with supine Burks approach ..... S133  
Dept. of Orthop. Surg., Kyoto Kizugawa Hosp., Kyoto, Japan Tomohito Ito

**Presentations related to Symposium 1 Pilon fractures, etc.**

(16 : 50~17 : 30)

Chair: S. Harada

- 1-2-SR1-1 Minimally invasive surgical treatment of pilon fractures ..... S38  
Dept. of Traumatology, Fukushima Medical Univ. / Trauma & Reconstruction Center, Southern TOHOKU  
General Hosp. Takuya Yuki
- 1-2-SR1-2 Experience in treating Pilon fracture operated on posterior medial approach ..... S38  
Trauma Center, Nagasaki Univ. Hosp. Shingo Ota
- 1-2-SR1-3 3 cases report: new approach of Pilon fracture ..... S39  
Juntendo Univ. Shizuoka Hosp. Tomoya Kojo
- 1-2-SR1-4 Outcome of the surgical treatment for Pilon fracture with Ilizarov external fixator ..... S39  
Dept. of Orthop. Surg., Chikamori Hosp., Kochi, Japan Yukinobu Nishii
- 1-2-SR1-5 Lower extremity fractures treatment of circular external fixator in elderly patients with hemorrhagic blisters ..... S40  
Dept. of Orthop. Surg., Akita Univ. Graduate School of Medicine, Akita, Japan Koji Nozaka



## Day1 • Room 3 (6F Exhibition Gallery)

### Symposium3 Strategies for Femoral Periprosthetic & Interprosthetic Fractures

(8 : 00~9 : 25)

Chairs: T. Baba  
Y. Ueda

- 1-3-SY3-1 Investigation of periprosthetic fractures, Vancouver type B1 similar to atypical femoral fractures (Study of case series and finite element method) ..... S50  
Dept. of Orthop. Surg., Oyumino Central Hosp. Takayuki Nakajima
- 1-3-SY3-2 Surgical Treatment of Periprosthetic Femoral Fractures with unstable femoral component - Tips and Pitfalls of Revision with Cementless Stem ..... S51  
Dept. of Orthop. Surg., Juntendo Shizuoka Hosp. Akio Kanda
- 1-3-SY3-3 Cemented revision total hip arthroplasty for periprosthetic femoral fracture ..... S52  
Dept. of Orthop. Surg., Kansai Medical Univ. Kenichi Oe
- 1-3-SY3-4 Principles of osteosynthesis and plate length selection in inter prosthetic femoral fractures ..... S53  
Sapporo Higashi Tokushukai Hosp., Orthop. Trauma Center, Hokkaido, Japan Yuta Izawa
- 1-3-SY3-5 Peri-TKA Fractures (Proper use of plates and intramedullary nails) ..... S54  
Dept. of Orthop. Surg., Saiseikaikumamoto Hosp., Kumamoto, Japan Yoshihisa Anraku

### Panel Discussion2 Prosthetic Replacement for Displaced Femoral Neck Fracture - What is the Best Way?

(9 : 35~11 : 00)

Chairs: N. Takahira  
I. Morohashi

- 1-3-PD2-1 Cemented hemiarthroplasty through CPP approach for displaced femoral neck fractures in elderly patients ..... S135  
Dept. of Joint Replacement Surg., Kouseiren Takaoka Hosp., Takaoka, Japan Daigo Sakagoshi
- 1-3-PD2-2 -What is joint replacement using the Superior Approach for Femoral neck fractures?- ..... S136  
Joint Surg. Clinic and Artificial Joint Center, Dept. of Orthop., Yodogawa Christian Hosp. Tomoaki Suzuka
- 1-3-PD2-3 Factors associated with early acquisition of walking ability in femoral head replacement by antero-lateral supine approach ..... S137  
Dept. of Orthop. Surg., Jyuzen Memorial Hosp. Hiroshi Koyama
- 1-3-PD2-4 Best treatment of femoral neck fracture is total hip arthroplasty with dual mobility cup in anterior approach ..... S138  
Dept. of Orthop. Surg., Saiseikai Yokohamashi Tobu Hosp. Atsushi Funayama
- 1-3-PD2-5 Displaced femoral neck fracture Our best practice in 2023: Direct anterior approach • Dual Mobility Cup • Cement stem THA ..... S139  
Dept. of Orthop., Faculty of Medicine, Juntendo Univ., Tokyo, Japan Yasuhiro Homma

Day 1  
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Room 3

**Presentations related to Symposium 3 Periprosthetic fractures of the femur**

(11 : 05~12 : 10)

Chair: H. Kumagai

- 1-3-SR3-1 The effective position of the locking attachment plate for the treatment of periprosthetic femoral fractures ..... S55  
Dept. of Orthop. Surg., Juntendo Univ. School of Medicine Koju Hayashi
- 1-3-SR3-2 Two cases of Atypical Femoral Fracture-like periprosthetic fractures with bone healing achieved by double plating ..... S55  
Dept. of Orthop., Graduate School of Medical Science, Kyoto Prefectural Univ. of Medicine Ryota Cha
- 1-3-SR3-3 Usefulness of revision surgery with cemented stem for periprosthetic femoral stem fracture ..... S56  
Dept. of Orthop. Surg., Sano Memorial Hosp. Suguru Nakamura
- 1-3-SR3-4 Outcome of periprosthetic fracture of the femur at our hospital ..... S56  
Dept. of Orthop., Tokyo Dental College Ichikawa General Hosp. Ryo Matsumoto
- 1-3-SR3-5 Periprosthetic fracture with two-stage surgery using intramedullary nail ... S57  
Orthop., Chiba Univ. Yuriko Yoshimoto
- 1-3-SR3-6 Two cases of peri-implant subtrochanteric fractures under sliding hip screws treated with a new intramedullary nail ..... S57  
Dept. of Orthop. Surg., Onomichi Municipal Hosp. Yukimasa Okada
- 1-3-SR3-7 Investigation of the number of plates for osteosynthese for Vancouver Classification B1, B2 and Baba Classification type2 using finite element analysis ..... S58  
Dept. Orthop. Surg., Oyumino Central Hosp. Takayuki Nakajima
- 1-3-SR3-8 A study of treatment result about classification type B of periprosthetic femoral fracture Vancouver ..... S58  
Izumi City General Hosp. / Dept. of Orthop. Surg., Osaka Metropolitan Univ., Graduate School of Medicine Naoya Kubota

**Noontime Lecture 3**

(12 : 25~13 : 25)

Chair: T. Maehara

- 1-3-NL3-1 Treatment Strategies for Periprosthetic Femoral Fractures: Cable Cerclage Techniques and Indications ..... S553  
Oyumino Central Hosp. Takayuki Nakajima
- 1-3-NL3-2 Therapeutic strategy for the periprosthetic femoral fracture using cable and plate ..... S554  
Dept. of Medicine for Orthop. and Motor Organ, Graduate School of Medicine / Dept. of Orthop., Faculty of Medicine, Juntendo Univ. Tomonori Baba

**Invited Lecture4**

(13 : 40~14 : 40)

**Chair: K. Kaneko**

- 1-3-IL4-1 RSA for Proximal Humeral Fractures: Past, Present, and Future in France ..... S8  
Clinic Paris Lilas Kishi Takaakira

**Panel Discussion3 RSA for Proximal Humerus Fracture - Selections**

(14 : 50~16 : 20)

**Chairs: H. Ikegami  
K. Kikugawa**

- 1-3-PD3-1 The indication and implant selection of RSA for proximal humeral fracture ..... S146  
Dept. of Orthop. Surg., National Hosp. Organization Takasaki General Medical Center /  
Dept. of Orthop. Surg., Gunma Univ., Graduate School of Medicine Tsuyoshi Ichinose
- 1-3-PD3-2 Clinical outcomes and pitfalls of AEQUALIS™ REVERSED FX ..... S147  
Dept. of Orthop., Jichi Medical Univ. Hideyuki Sasanuma
- 1-3-PD3-3 Indications and Surgical Outcomes of Lima SMR Reverse for Proximal Humeral Fracture..... S148  
Dept. of Orthop. Surg., Tokai Univ. Hachioji Hosp. Yoshiyasu Uchiyama
- 1-3-PD3-4 For those who are concerned about postoperative the external rotation function ... "Arrow" (MDM) ..... S149  
Dept. Orthop. Surg. Juntendo Shizuoka Hosp. Shuichi Moriya
- 1-3-PD3-5 Reverse shoulder arthroplasty using Equinoxe Fracture System for the treatment of proximal humeral fracture ..... S150  
Dept. of Orthop. Surg., Keio Univ. School of Medicine Noboru Matsumura

**Presentations related to Symposium 9 Spinal injury**

(16 : 30~17 : 05)

**Chair: K. Ishii**

- 1-3-SR9-1 Trial of very early decompression surgery for cervical spinal cord injury without radiographic evidence of trauma ..... S108  
Dept. of Orthop. Surg., Yamanashi Prefectural Central Hosp. Hiroaki Iwase
- 1-3-SR9-2 Multidisciplinary intervention for cervical spinal cord injury ..... S108  
Tsukuba Medical Center Hosp. Shota Nakagawa
- 1-3-SR9-3 Are markers of liver function useful in predicting subacute neurological functional improvement on severe spinal cord injury? ..... S109  
Trauma and Reconstruction Center, Teikyo Univ. Hosp. / Dept. of Orthop. Surg., Teikyo Univ. School of Medicine Tatsuhisa Takekawa
- 1-3-SR9-4 Outcome of Very Early Surgery for Non-Osteoarthritic Cervical Spinal Cord Injury ..... S109  
Advanced Critical Care and Emergency Center, Yokohama City Univ. Medical Center, Kanagawa, Japan Masahiro Matsumoto

**Day1 • Room 4 (10F 1001-1)**

**Panel Discussion4 Current Treatment Strategies for Distal Radius Fractures with AO Classification Type C3**

(8 : 00~9 : 25)

**Chairs: Y. Zenke  
K. Naito**

- 1-4-PD4-1 The strategies for AO/OTA classification C3 type distal radius fractures S156  
Showa Univ. Yokohama Northern Hosp., Orthop. Keikichi Kawasaki
- 1-4-PD4-2 Treatment strategy for C3 distal radius fracture from arthroscopic perspective ..... S157  
Dept. of Orthop. Surg., Saiseikai Shimonoseki General Hosp. Yukio Abe
- 1-4-PD4-3 Treatment of intra-articular comminuted fractures of the distal radius performed with Initial R Xpert 2.4 rim plate alone ..... S158  
Trauma Reconstruction Center, Juntendo Univ. Urayasu Hosp. / Dept. of Orthop., Juntendo Univ. Urayasu Hosp. Satoshi Ichihara
- 1-4-PD4-4 Treatment strategy for hardly curable type C3 distal radius fractures ... S159  
Niigata Hand Surg. Foundation Koji Moriya
- 1-4-PD4-5 Treatment strategies of AO type 3 distal radius fractures with hybrid type volar locking plate systems ..... S160  
Dept. of Orthop. Surg., Dokkyo Medical Univ. Nikko Medical Center Denju Osada

**Symposium4 Treatment of Fracture in Cancer Patients**

(9 : 35~11 : 00)

**Chair: T. Takagi**

- 1-4-SY4-1 Management of the locomotor system in cancer patients - Onco-Orthopaedics - ..... S60  
Dept. of Orthop. Surg., National Hosp. Organization Tokyo Medical Center Hideo Morioka
- 1-4-SY4-2 Surgical outcome of proximal femoral fractures in patients undergoing cancer treatment, excluding bone metastases ..... S61  
Orthop., Juntendo Univ., Tokyo, Japan Juri Teramoto
- 1-4-SY4-3 Potential risk of atypical femoral fractures in bone metastasis patients using bone modifying agents ..... S62  
Dept. of Orthop. and Trauma Research, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental Univ., Tokyo, Japan Yoto Oh
- 1-4-SY4-4 Intervention of orthopaedic surgeon improves activities of daily living in patients with cancer/bone metastasis ..... S63  
Dept. of Orthop. Surg. and Joint Reconstruction Center, Chibanishi General Hosp. Chiba, Japan Fumiaki Masui
- 1-4-SY4-5 How to utilize prosthetic reconstruction and cement augmentation for pathological fractures in the extremity end pelvis ..... S64  
Dept. of Orthop. Surg., Teikyo Univ. School of Medicine Jungo Imanishi

Day 1  
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Room 4

**Presentations related to Panel Discussion 4 Distal radius fractures (C3)**

(11 : 20~12 : 10)

**Chair: K. Morita**

- 1-4-PR4-1 The research of the dorsal split-depression fracture of distal radius ..... S161  
Dept. of Orthop. Surg. Kousei General Hosp. Kyohei Chiba
- 1-4-PR4-2 Treatment strategy for AO/OTA type C3 distal radius fractures and  
consideration of poor outcome factors ..... S161  
Dept. of Orthop. Surg., Higashisumiyoshi Morimoto Hosp., Osaka, Japan Hidetoshi Teraura
- 1-4-PR4-3 Indication and limitation of fluoroscopic reduction for type C-3 distal radius  
fractures -Arthroscopic evaluation of intraarticular joint displacements using a  
bendable polyaxial locking plate- ..... S162  
Dept. of Orthop. Surg., Yao Tokushukai General Hosp. Yoshihiro Dohi
- 1-4-PR4-4 Is K-I classification useful for distal radius fractures with a volar lunate facet  
fragment? ..... S162  
Dept. of Orthop. Surg., Okayama Saiseikai General Hosp. Shunji Okita
- 1-4-PR4-5 Volar radioulnar ligament suture technique for distal radius fractures with  
volar lunate facet fragments ..... S163  
Hand and Elbow Surg. Center, Dept. of Orthop. Surg., Kawasaki Municipal Kawasaki Hosp.  
Masao Nishiwaki
- 1-4-PR4-6 Coverage of DVR Crosslock Volar Rim Plate for Distal Radial Volar Lunate  
Facet Fragment ..... S163  
Fukuoka Orthop. Hosp., Fukuoka, Japan Masahiro Matsuda

**Noontime Lecture 4**

(12 : 25~13 : 25)

**Chair: K. Kinugasa**

- 1-4-NL4-1 'Helios locking pin sleeve system' invented for Himawari method for  
comminuted patellar fractures ..... S555  
Harima Himeji General Medical Center Akihiro Maruo

Presentations related to Panel Discussion 3 RSA for proximal humerus fractures

(13 : 40~14 : 45)

Chair: M. Yamada

- 1-4-PR3-1 Clinical results of reverse shoulder arthroplasty for the 4part proximal humeral fractures in elderly patients ..... S151  
Dept. of Orthop. Surg., Yokohama Municipal Citizen's Hosp. Akihiro Nakazawa
- 1-4-PR3-2 Impact of age on outcome after reverse shoulder arthroplasty performed for proximal humerus fractures ..... S151  
Dept. of Orthop. Surg., Iwaki City Medical Center, Fukushima, Japan Gaku Matsuzawa
- 1-4-PR3-3 Clinical experience of Reverse Shoulder Arthroplasty with bone graft for proximal humeral fractures ..... S152  
Orthop. Dept., Yashio Central Hosp., Saitama, Tokyo Hideaki Asai
- 1-4-PR3-4 Reverse Shoulder Arthroplasty to proximal humeral fracture with deltoid injury ..... S152  
Dept. of Orthop. Surg., Tokai Univ. School of Medicine Takeshi Imai
- 1-4-PR3-5 Outcome of Reverse Shoulder Arthroplasty for Proximal humeral Fracture over 80 years old ..... S153  
Dept. of Orthop. Surg., Yashima General Hosp. Hironori Manabe
- 1-4-PR3-6 Treatment of Proximal Humerus Fractures in the Elderly using Aequalis FX ..... S153  
Dept. of Orthop. Surg., Japanese Red Cross Kyoto Daini Hosp. Takashi Kiba
- 1-4-PR3-7 Shoulder Arthroplasty for Proximal Humeral Fracture Sequelae: A Case Study ..... S154  
Dept. of Orthop. Surg., Keio Univ. School of Medicine Ryosuke Tsujisaka
- 1-4-PR3-8 Comparison of clinical result between reverse shoulder arthroplasty for proximal humerus fracture and fracture sequelae and salvage reverse shoulder arthroplasty for failed operative treatment of proximal humeral fracture S154  
Ishikiriseiki Hosp. Yoshihiro Hirakawa

**Symposium5 Latest Strategy for Syndesmosis Injury**

(14 : 50~16 : 20)

Chairs: N. Haraguchi  
N. Takada

- 1-4-SY5-1 Treatment Strategies for Syndesmosis Injury .....S70  
Dept. of Orthop. Surg., Teikyo Univ. / Trauma and Reconstruction Center, Teikyo Univ. Hosp.  
Kentaro Matsui
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(9 : 00~9 : 40)

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(9 : 50~10 : 30)

**Chair: H. Kato**

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(10 : 40~11 : 10)

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(11 : 20~11 : 45)

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Department of Orthopaedic Surgery, Faculty of Medicine in Hradec Kralove, Charles University in Prague,  
Hradec Kralove, Czech Republic / Institute of Physiology of the Czech Academy of Sciences, Prague, Czech  
Tomas Novotny

**Main Theme6 Ankle fractures**

(13 : 40~14 : 10)

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(14 : 20~14 : 50)

**Chair: M. Yamaguchi**

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(15 : 00~15 : 30)

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(15 : 40~16 : 10)

Chair: N. Katoh

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(16 : 20~17 : 05)

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## Day1 • Room 6 (11F Conference Hall "Winds")

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**-Do not use plates without knowing this-**

(8 : 00~9 : 00)

**Chairs: S. Iwabu**  
**S. Isefuku**

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(9 : 10~9 : 50)

**Chair: T. Fujiyoshi**

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 Trauma and Reconstruction Center, Teikyo Univ. Hosp. /  
 Dept. of Orthop. Surg., Teikyo Univ. School of Medicine Tatsuhisa Takekawa
- 1-6-MT11-5 Treatment outcomes of spinal fractures in the thoracolumbar transition area based on the number of bone bridges ..... S224  
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**Main Theme12 Fracture Rehabilitation**

(10 : 00~10 : 30)

Chair: O. Kisanuki

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- 1-6-MT12-4 Comparative study of rehabilitational gait analysis videotaped with  
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- 1-6-MT12-5 Can the number of teeth in patients with proximal femur fracture predict  
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(10 : 40~11 : 10)

Chair: T. Ishiguro

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(11 : 20~12 : 00)

**Chair: T. Akasaka**

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- 1-6-MT14-2 Perioperative pain management using ultrasound-guided femoral nerve block for femoral intertrochanteric fracture ..... S231  
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Dept. of Orthop. Surg. Gunma Univ. Graduate School of Medicine Takuma Kachi
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- 1-6-MT14-6 Ultrasound-guided platelet-rich plasma (PRP) therapy and aggressive rehabilitation for fractures ..... S233  
Hada Medical Clinic, Tokyo, Japan /  
Dept. of Orthop. Surg., Juntendo Univ. School of Medicine, Tokyo, Japan Shinnosuke Hada

**Noontime Lecture 6**

(12 : 25~13 : 25)

**Chair: K. Oae**

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(13 : 40~14 : 30)

**Chair: Y. Kobayashi**

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Dept. of Traumatology and Reconstructive Surg., Fukushima Medical Univ. School of Medicine,  
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- 1-6-MT15-3 Treatment of Gustilo IIIA/B tibia open fractures ..... S234  
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- 1-6-MT15-7 Clinical results of Gustilo type III open fractures of the lower extremity: Evaluation of infection cases ..... S236  
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(14 : 40~15 : 00)

**Chair: K. Kawamura**

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**Main Theme17 Extensive bone loss (Masquelet technique)**

(15 : 10~15 : 50)

Chair: I. Ohno

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- 1-6-MT17-3 Masquelet technique for comminuted open femoral fracture with huge bone defect ..... S240  
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Dept. of Orthop. Surg., Teikyo Univ. School of Medicine Toshimitsu Sato

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(16 : 00~16 : 30)

Chair: K. Oe

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(16 : 40~17 : 10)

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 Dept. of Orthop. Surg., Minami Nara General Medical Center Keisuke Tsujimura
- 1-6-CR-2 A revision case due to fractured total elbow arthroplasty for osteoarthritis secondary to malunited fracture ..... S289  
 Dept. of Orthop. Surg., Kenwakai Otemachi Hosp. Kazuhiro Sakai
- 1-6-CR-3 A case of lateral femoral circumflex artery branch injury due to reduction operation during surgery for femoral trochanteric fracture ..... S290  
 Dept. of Orthop., Chubu Rosai Hosp. Takahiro Wakayama
- 1-6-CR-4 A case of early postoperative backout of a sternal fracture pseudarthrosis fixed with a volar distal radius locking plate ..... S290  
 Saitama Red Cross Hosp., Saitama, Japan Shota Den
- 1-6-CR-5 A case of fatal pulmonary thromboembolism during surgical treatment of distal femoral fracture ..... S291  
 Dept. of Orthop. Surg., Higashiyamoto Hosp. Yu Yamashita

## Day1 • Room A (9F 910)

### Young Surgeons Session 1 The Basics of Initial Treatment for Severe Extremity Limb Trauma

(8 : 30~10 : 30)

#### Treatment Flow for Severe Open fractures of the Lower Leg on the Day of injury

Chair: K. Hayashi

- 1-A-YS1-1 How to bring patients with severe open fractures to an operation room safely: Resuscitation and Neurovascular assessment ..... S507  
Yokohama City Univ. Medical Center, Advanced Critical Care and Emergency Center  
Masahiro Matsumoto
- 1-A-YS1-2 How to perform an initial operation for severe open fractures:Debridement and External fixation ..... S507  
Div. of Orthop. Trauma Center, Sapporo Tokushukai Hosp. Hirotada Matsui
- 1-A-YS1-3 How to evaluate severe open fractures in the operation room and to plan internal fixation and soft tissue reconstruction surgery: Injury evaluation seat and Reconstruction..... S507  
Juntendo Univ. Urayasu Hosp., Hand Surg. & Trauma Reconstruction Center Masao Suzuki

#### Key point in the intial treatment of Severe Extremity trauma: A Case-based Presentation

Chair: H. Matsui

- 1-A-YS1-4 How to evaluate and treat patients who are suspected of suffering a popliteus artery injury..... S507  
Osaka City General Hosp. Keisuke Suzuki

Chair: M. Suzuki

- 1-A-YS1-5 How to stabilize severe open fractures:Tips and tiricks for external fixation ..... S507  
Trauma Center, Shonan Kamakura General Hosp. Ryo Sato

Chair: K. Suzuki

- 1-A-YS1-6 How to perform delayed primary closure: Time-out method ..... S507  
Dept. of Plastic and Reconstructive Surg., Chang Gung Memorial Hosp., Taiwan /  
Dept. of Orthop., Ogori Daiichi General Hosp. Kota Hayashi

**Young Surgeons Session 2 Strike a gong! It's Fracture Wrestling Entertainment show!**

(10 : 55~11 : 55)

**Producer: K. Tsuihiji  
Announcer: K. Sorimachi  
Commentator: S. Tsutsui  
Referee: M. Mastumoto**

**1st Tag Match Subtrochanteric femur fractures**

Player ..... S508  
Akita Univ., Akita, Japan Motoki Mita

Player ..... S508  
Hyogo Emergency Medical Center, Hyogo, Japan Ryowa Mineo

**VS**

Player ..... S508  
Southern TOHOKU General Hosp., Fukushima, Japan/Nagoya City Univ., Aichi, Japan Hiroki Yonezu

Player ..... S508  
Mito Saiseikai General Hosp., Ibaraki, Japan/Niigata Univ., Niigata, Japan Yuma Yoshida

**2nd Tag Match Soft tissue management in open fracture**

Player ..... S508  
Chang Gung Memorial Hosp., Taiwan/Ogori Daiichi General Hosp., Yamaguchi Japan Kota Hayashi

Player ..... S508  
Hiroshima Univ., Hiroshima, Japan Yuta Hayashi

**VS**

Player ..... S508  
Juntendo Univ. Shizuoka Hosp., Shizuoka, Japan Tomoko Wakejima

Player ..... S508  
Kariya Toyota General Hosp., Aichi, Japan Takahiko Nakano

**Noontime Lecture 7**

(12 : 25~13 : 25)

**Chair: T. Matsumura**

1-A-NL7-1 Knotless suture for satisfactory wound healing ..... S558  
Dept. of emergency and critical care medicine, Saitama Medical Center Yasuhisa Ueda

1-A-NL7-2 ABCDE approach in the wound closure of the trauma surgery ..... S559  
Orthop. Trauma and Reconstruction Center Shimpei Kitada

Day 1  
Room A

**Young Surgeons Session 3 Hands-on Basic Fracture Operative Techniques**

(15 : 00~17 : 00)

**Coordinator: T. Miyake  
Y. Mizuno  
T. Inaba**

- 1-A-YS3-1 How to approach trauma orthopedic surgery from a nurse's perspective  
-Preparation with an awareness of the surgical process- ..... S509  
Trauma Center, Shonan Kamakura Hosp., Kanagawa, Japan Taiki Inaba
- 1-A-YS3-2 Let's understand the function (role) and structure (difference) of the screw  
and do it! -Practice the lag screw technique with an actual screw ..... S509  
Advanced Critical Care Center, Gifu Univ. Hosp., Gifu, Japan Yosuke Mizuno
- 1-A-YS3-3 Let's understand the function (role) and structure (difference) of the plate and  
do it! -Practice with the actual Compression Plate ..... S509  
Advanced Critical Care Center, Gifu Univ. Hosp., Gifu, Japan Takahito Miyake



## Day1 • Room B (9F 904)

### Multi Purpose Room 1 Surgical Strategies for Proximal Humeral Fracture (8 : 50~10 : 20)

1-B-MP1-1	.....	S576
	Juntendo Univ. Shizuoka Hosp. Shuichi Moriya	
1-B-MP1-2	.....	S576
	Fujita Health Univ. Bantane Hosp. Mitsuko Yamada	

### Echo Hands-on Seminar Recommendations for Ultrasound-guided Anesthesia - Usage in the Trauma Field (13 : 40~15 : 40)

Chairs: J. Sasahara  
K. Miyatake

1-B-EH-1	The best Hands-on for upper limb ultrasound-guided nerve block anesthesia/ Ultrasound: A powerful tool for upper limb injuries .....	S520
	Niigata Rosai Hosp. Yohei Sakai	
1-B-EH-2	The best Hands-on for lower limb ultrasound-guided nerve block anesthesia/ Ultrasound: A powerful tool for lower limb injuries.....	S520
	Dept. of Orthop. Saiseikai Nara Hosp. Yoshiyuki Kamatani	
Hands-on Instructor	.....	S520
	Heartlife Hosp. Orthop. Surg. Naori Akamine	
Hands-on Instructor	.....	S520
	JCHO Tokyo Takanawa Hosp. Takahiro Kashiyama	
Hands-on Instructor	.....	S520
	Yokohama City Univ. Dept. of Orthop. Hiroki Katayama	
Hands-on Instructor	.....	S520
	Dept. of Orthop. Saiseikai Nara Hosp. Yoshiyuki Kamatani	
Hands-on Instructor	.....	S520
	Niigata Rosai Hosp. Yohei Sakai	
Hands-on Instructor	.....	S520
	Sagamihara Kyodo Hosp. Shinya Tsujiku	
Hands-on Instructor	.....	S520
	Dept. of Orthop. Surg., Niigata Central Hosp. Kazuya Yamada	
Hands-on Instructor	.....	S520
	Institute for Integrated Sports Medicine, School of Medicine, Keio Univ. Yuichi Yamada	

Day 1  
Room A

Day 1  
Room B

## Day1 • Room C (9F 908)

**Multi Purpose Room 2** Application of the steel wire external fixator JuNction for upper extremity fractures

(10 : 30~12 : 00)

Chair: K. Naito

1-C-MP2-1 ..... S577  
Dokkyo Medical Univ. Saitama Medical Center Hidetsugu Suzuki

1-C-MP2-2 ..... S577  
Chiba Univ. Hosp. Yuusuke Matsuura

**Multi Purpose Room 3**

(15 : 40~17 : 40)

Chair: H. Nonomiya

1-C-MP3-1 The secrets of external fixation for limbs -How to make cast and splint- S578  
Dept. of Orthop. Surg., Kamitsuga General Hosp. Satoshi Takahata

## Day1 • Room D (10F 1003)

Multi Purpose Room 4 Consider Treatment from Both Bone and Soft Tissue Perspectives:  
Applications of SpeedBridge™, InternalBrace™, DynaNite™ to  
Trauma Area

(9 : 00~14 : 00 : Workshop, 14 : 30~16 : 00 : Hands-on)

1-D-MP4-1	.....	S579
	Gifu Prefectural General Medical Center      Hiroyuki Tanahashi	
1-D-MP4-2	.....	S579
	Okada Orthop. clinic      Hirokazu Okada	
1-D-MP4-3	.....	S579
	Fukuoka Seisyukai Hosp.      Kazuki Kanazawa	

Day1 • Room E (10F 1002)

Combined Session of the Japanese Association for Limb Reconstruction and External Fixation (JALREF) and the JSFR

Hands-on Seminar: Temporary External Fixator Fracture Treatment Manual

- Practical Application in the Field

(13 : 40~15 : 40)

Chair: N. Takenaka

1-E-EF-1	.....	S519
	Dept. of Traumatology, Fukushima Medical Univ., Fukushima, Japan / Trauma & Reconstruction Center, Southern TOHOKU General Hosp., Fukushima, Japan	Narutaka Katoh
1-E-EF-2	.....	S519
	Dept. of Traumatology, Fukushima Medical Univ., Fukushima, Japan / Trauma & Reconstruction Center, Southern TOHOKU General Hosp., Fukushima, Japan	Motoyuki Takaki
1-E-EF-3	.....	S519
	Dept. of Traumatology, Fukushima Medical Univ., Fukushima, Japan / Trauma & Reconstruction Center, Southern TOHOKU General Hosp., Fukushima, Japan	Shota Harada
1-E-EF-4	.....	S519
	Dept. of Orthop. Surg., Akita Univ. Graduate School of Medicine, Akita, Japan	Koji Nozaka
1-E-EF-5	.....	S519
	Dept. of Orthop. Surg., Chikamori Hosp., Kochi, Japan	Yukinobu Nishii

## Day1 • Room F (1F Main Hall "Ocean")

### Noontime Lecture 8

(12 : 25~13 : 25)

Chair: N. Takenaka

- 1-F-NL8-1 Prevention of postoperative pain and delirium in elderly patients with hip fractures by medical teams ..... S560  
Dept. of Anesthesiology and Intensive care, Akita Univ. School of Medicine Yukitoshi Niiyama
- 1-F-NL8-2 Perioperative management of elderly patients with hip fractures ..... S561  
Dept. of Orthop. Surg., Toyama City Hosp., Toyama, Japan Kenji Shigemoto