

# Scientific Program

## The 9th Congress of Asia Pacific Knee Society (APKS2016)

October 27 – 28, 2016 Yokohama

Congress President: Tomoyuki Saito, M.D., Ph.D.

Department of Orthopaedic Surgery, Yokohama City University School of Medicine

## Thursday, October 27 (DAY 1)

9:15~9:25 **Opening Ceremony**

9:25~9:55 **Presidential Lecture**

**Moderator** Aree Tanavalee

**PL** **Clinical results of high tibial osteotomy using locking plate system for medial compartmental osteoarthritis of the knee**  
Tomoyuki Saito | Department of Orthopaedic Surgery, Yokohama City University Hospital, Japan ..... 24

10:00~10:45 **Free Paper 1: TKA1**

**Moderator** Fachry A. Tandjung, Tokifumi Majima

**FP1-1** **Management of bone loss in revision TKA**  
Surapoj Meknavin | Orthopaedic, Faculty of Medicine Vajira Hospital, Navamindradhiraj University, Thailand ..... 36

**FP1-2** **Patellar maltracking after total knee arthroplasty**  
Charlee Sumettavanich | Department of Orthopedics, Lerdsin General Hospital, Thailand ..... 36

**FP1-3** **Long term clinical results of ceramic knee implant**  
Shinichiro Nakamura | Department of Orthopaedic Surgery, Kyoto University, Japan ..... 37

**FP1-4** **Optimal posterior reference point for sizing of the femoral component in total knee arthroplasty**  
Tomoharu Takagi | Department of Orthopaedic Surgery, Graduate School of Medical Science Kanazawa University, Japan ..... 37

**FP1-5** **The detection of small periprosthetic bone defects around the oxidized zirconium femoral component**  
Yukihide Minoda | Department of Orthopaedic Surgery, Osaka City University Graduate School of Medicine, Japan ..... 38

10:45~11:30 **Free Paper 2: ACL, OCD**

**Moderator** Ken Kumagai

**FP2-1** **Comparison of clinical and radiologic outcomes and second-look arthroscopic findings after ACL reconstruction using fixed-loop and adjustable-loop cortical suspension devices**  
Hong-An Lim | Department of Orthopedic Surgery, Center for Joint Disease, Chonnam National University Hwasun Hospital, Korea ..... 38

**FP2-2** **Lateral meniscal extrusion can be useful to estimate severity of the lateral meniscus posterior root tear in ACL deficient knees**  
Yusuke Kamatsuki | Department of Orthopaedic Surgery, Okayama University Graduate School, Japan ..... 39

**FP2-3** **Partial transphyseal anterior cruciate ligament reconstruction in adolescents with open physes**  
Keiji Suzuki | Orthopedic Surgery, Kosei General Hospital, Japan ..... 39

**FP2-4** **Limitation of in situ arthroscopic fixation for stable osteochondritis dissecans of the knee**  
Masakazu Ishikawa | Department of Orthopaedic Surgery, Hiroshima University, Japan ..... 40

<b>FP2-5</b>	<b>Clinical outcomes of the surgical treatment with osteochondritis dissecans according to our strategy</b>	
	Riku Hayashi   Orthopaedic Surgery, Yokohama Minami Kyosai Hospital, Japan	40

### 11:45~12:45 Luncheon Seminar 1 (Sponsored by Zimmer Biomet G. K.)

Moderator Kazuhiko Michishita

<b>LS1</b>	<b>Bi-cruciate retaining knee arthroplasty</b>	
	Hiroshi Inui   Department of Orthopaedic Surgery, Faculty of Medicine, The University of Tokyo, Japan	35

### 13:05~14:05 Invited Lecture 1

Moderator Eun Kyoo Song

<b>IL1</b>	<b>Surgical approach and clinical outcome to total knee arthroplasty</b>	
	Toru Suguro   Emeritus Professor, Faculty of Medicine, Toho University, Japan	24

### 14:10~15:15 Free Paper 3: Arthroscopic Surgery and Trauma

Moderator Surapoj Meknavin, Cong-Feng Luo

<b>FP3-1</b>	<b>Long term results of arthroscopic medial capsular plication for patellar instability</b>	
	A. Merter Ozenci   Orthopaedics and Traumatology, Akdeniz University Hospital, Turkey	41

<b>FP3-2</b>	<b>The result of total and partial meniscectomy (long time follow up, 10-15 years.)</b>	
	Fachry A. Tandjung   Orthopaedi and Traumatologi, Faculty of Medicine Universitas Padjadjaran, Indonesia	43

<b>FP3-3</b>	<b>Pullout repair of a medial meniscus posterior root tear using an all-inside meniscal suture technique</b>	
	Yuya Kodama   Department of Orthopaedic Surgery, Okayama University Graduate School of Medicine, Dentistry, and Pharmaceutical Sciences, Japan	43

<b>FP3-4</b>	<b>Repair of chronic large meniscal defect with implantation of autogenous meniscal fragments using tubular shaped fibrin clot</b>	
	Tamiko Kamimura   Department of Orthopaedic Surgery, Tokorozawa Chuo Hospital, Japan	44

<b>FP3-5</b>	<b>The evolution of arthroscopic surgery in Thailand</b>	
	Vatanachai Rojvanit   Orthopaedic Surgery, Faculty of Medicine Siriraj Hospital, Mahidol University, Thailand	44

<b>FP3-6</b>	<b>Arthroscopic fixation of tibial eminence fracture: Report of 11 cases</b>	
	Shu Takagawa   Yokohama Municipal Citizen's Hospital, Japan	42

<b>FP3-7</b>	<b>Flexion-type Salter-Harris II fracture of the proximal tibial epiphysis: Operative versus nonoperative treatment</b>	
	Hiroshi Watanabe   Department of Orthopaedic Surgery, Nippon Medical School, Japan	42

### 15:20~16:50 Symposium: Management Factors for Success in Primary TKA

Moderator A. Merter Ozenci, Nicolaas C. Budhiparama

<b>SY-1</b>	<b>Perioperative management for blood loss and VTE</b>	
	Chyun-Yu Yang   Department of Orthopedics, National Cheng Kung University Hospital, Taiwan	25

<b>SY-2</b>	<b>Robotic total knee arthroplasty</b>	
	Eun Kyoo Song   Department of Orthopedic Surgery, Chonnam National University Bitgoeul Hospital, Korea	26

<b>SY-3</b>	<b>How to decide tibial rotation in TKA</b>	
	Thanainit Chotanaphuti   Orthopedic, Phramongkutklo Medical College, Thailand	26

<b>SY-4</b>	<b>Soft tissue balance and preservation in TKA</b>	
	Shinro Takai   Department of Orthopedic Surgery, Nippon Medical School, Japan	27

<b>SY-5</b>	<b>Medial gap technique for safer and quantitative gap balancing management in PS-TKA using a newly developed tensor device</b>	
	Hirotsugu Muratsu   Department of Orthopaedic Surgery, Steel Memorial Hirohata Hospital, Japan	27

<b>SY-6</b>	<b>The evolution of total knee arthroplasty in Thailand</b> Vatanachai Rojvanit   Orthopaedic Surgery, Faculty of Medicine Siriraj Hospital, Mahidol University, Thailand ..... 28	
<b>16:55~17:40</b>	<b>Free Paper 4: TKA2</b>	<b>Moderator</b> Dicky Mulyadi, Shinro Takai
<b>FP4-1</b>	<b>Techniques of locating the adductor tubercle intraoperatively and on anterior-posterior radiographs for joint line determination in knee arthroplasty</b> Ing-Ho Chen   Orthopedic Surgery, Hualien Tzu Chi Hospital/ Tzu-Chi University, School of Medicine, Taiwan ..... 45	
<b>FP4-2</b>	<b>Evaluation of posterior tibial slope and posterior capsule slope: A new landmark for total knee arthroplasty</b> Tatsunori Kataoka   Department of Orthopedics, Nippon Medical School, Japan ..... 45	
<b>FP4-3</b>	<b>Is suction drainage necessary after total knee arthroplasty? : A prospective study of a mean follow-up over 5 years</b> Toshifumi Watanabe   Department of Orthopaedic Surgery, Tokyo Medical and Dental University Hospital, Japan ..... 46	
<b>FP4-4</b>	<b>Kinematic analysis of posterior-stabilized total knee arthroplasty during activities of daily living</b> Takatomo Mine   Orthopaedic Surgery and Rheumatology, National Hospital Organization Kanmon Medical Center, Japan ..... 46	
<b>FP4-5</b>	<b>The impact of the postoperative exercise intervention on the recovery of total knee arthroplasty</b> Robert Wen-Wei Hsu   Chiayi Chang Gung Memorial Hospital, Taiwan ..... 47	

**17:40~18:20**      **Free Paper 5: TKA/UKA**      **Moderator** Dae-Kyung Bae

<b>FP5-1</b>	<b>Changes in periprosthetic tibial bone mineral density after total knee arthroplasty</b> Akihiro Kobayashi   Orthopaedic Surgery, Yokohama City University School of Medicine, Japan ..... 47	
<b>FP5-2</b>	<b>Post-operative medial knee stability and ambulatory functional recovery increase patient satisfaction one-year after TKA</b> Tomoyuki Kamenaga   Department of Orthopedic Surgery, Steel Memorial Hirohata Hospital, Japan ..... 48	
<b>FP5-3</b>	<b>Oxford UKA perform not only resurface, but also realignment?</b> Kenji Hara   Knee Joint Reconstruction Center, Shonan Kamakura General Hospital, Japan ..... 48	
<b>FP5-4</b>	<b>Subchondral-sparring tibial cut in fixed bearing unicompartement knee arthroplasty: A modified surgical technique to prevent tibial component collapse and fracture</b> Srihatach Ngarmukos   Department of Orthopaedics, Faculty of Medicine, Chulalongkorn University, Thailand ..... 49	

## Friday, October 28 (DAY 2)

**8:30~10:00**      **Panel Discussion: Cutting Edge of the TKA**  
**Moderator** Chyun-Yu Yang, Robert Wen-Wei Hsu

<b>PD-1</b>	<b>MIS-TKA: What have we learnt?</b> Aree Tanavalee   Department of Orthopaedics, Faculty of Medicine, Chulalongkorn University, Thailand ..... 28	
<b>PD-2</b>	<b>Measured resection vs gap balancing technique for TKR: With specific reference to patient reported outcome measures</b> Nicolaas C. Budhiparama   Orthopaedic Surgery, Nicolaas Institute of Constructive Orthopaedic Research and Education Foundation for Arthroplasty and Sports Medicine, Indonesia ..... 29	
<b>PD-3</b>	<b>Cutting edge of the TKA: Navigated TKA</b> Tokifumi Majima   Orthopedic Surgery, International University of Health and Welfare Hospital, Japan ..... 29	
<b>PD-4</b>	<b>Primary total knee arthroplasty after knee fusion due to tuberculosis</b> Dicky Mulyadi   Orthopaedi and Traumatologi, Faculty of Medicine Universitas Padjadjaran, Indonesia ..... 30	

- PD-5** **TKR in varus- valgus deformities- what's new?**  
Parag K. Sancheti | Arthroscopy and Joint Replacement, Sancheti Institute for Orthopaedics and Rehabilitation, India ..... 30
- PD-6** **Rationale for cruciate retention in all poly tibial component TKR**  
David S. K. Choon | Department of Orthopaedic Surgery, University Malaya Specialist Centre, Malaysia ..... 31

**10:10~10:50 Free Paper 6: TKA3****Moderator** Vatanachai Rojvanit

- FP6-1** **The influence of surgical technique on the intra-operative soft tissue balance in posterior-stabilized TKA**  
Yutaro Kanda | Department of Orthopedic Surgery, Steel Memorial Hirohata Hospital, Japan ..... 49
- FP6-2** **Portable accelerometer based navigation system improved the prosthetic alignment in total knee arthroplasty in an Asian population**  
Hideki Ueyama | Department of Orthopaedic Surgery, Osaka City University Graduate School of Medicine, Japan ..... 50
- FP6-3** **Modified subvastus approach with non-intramedullary reaming by digital fluoroscopic analysis (MND) total knee arthroplasty**  
Thana Turajane | Department of Orthopedic, Police General Hospital affiliated with Srinakharinwirot Medical School, Thailand ..... 50
- FP6-4** **Hand-held navigation may improves accuracy in minimally invasive total knee arthroplasty**  
Satit Thiengwittayaporn | Department of Orthopaedics, Faculty of Medicine Vajira Hospital, Navamindradhiraj University, Thailand ..... 51

**10:50~11:30 Free Paper 7: TKA4****Moderator** Charlee Sumettavanich

- FP7-1** **Total knee arthroplasty in patients with Ranawat type-II valgus arthritic knee with a marked coronal femoral bowing deformity**  
Tsan-Wen Huang | Department of Orthopaedic Surgery, Chang Gung Memorial Hospital, Chiayi, Taiwan ..... 51
- FP7-2** **Revision total knee arthroplasty for peri-prosthetic knee fractures - NCKUH experiences**  
Chih-Wei Chang | Biomedical Engineering, National Cheng Kung University, Taiwan ..... 52
- FP7-3** **Comparison of 10 year follow-up results between robotic and conventional total knee arthroplasty**  
YoungJoo Shin | Department of Orthopedic Surgery, Center for Joint Disease, Chonnam National University Hwasun Hospital, Korea ..... 52
- FP7-4** **Incidence of preoperative deep vein thrombosis in high probability patients undergoing elective hip and knee replacement surgery**  
Siwadol Wongsak | Orthopedic department, Ramathibodi Hospital, Mahidol University, Thailand ..... 53

**11:45~12:45 Luncheon Seminar 2 (Sponsored by Stryker Japan K. K.)****Moderator** Kandiah Raveendran

- LS2** **In vivo kinematics of single radius total knee arthroplasty**  
Tetsuya Tomita | Department of Orthopaedic Biomaterial Science, Osaka University Graduate School of Medicine, Japan ..... 35

**13:05~14:05 Invited Lecture2****Moderator** Thanainit Chotanaphuti

- IL2** **Current concepts in Asian TKA**  
Ryuji Nagamine | Center of Artificial Joint and Rheumatism, Fukuoka Tokushukai Medical Center, Japan ..... 25

**14:05~15:00 Free Paper 8: HTO****Moderator** Ellewellyn Pasion, Ing Ho Chen

- FP8-1** **Clinical outcome of open-wedge high tibial osteotomy using a novel fixation system: Comparison with a conventional plate**  
Koji Yabuuchi | Department of Orthopaedic Surgery, Hokkaido University Graduate School of Medicine, Japan ..... 53

<b>FP8-2</b>	<b>Joint-preserving surgery for spontaneous osteonecrosis of the knee</b> Ken Kumagai   Department of Orthopaedic Surgery, Yokohama City University, Japan ..... 54
<b>FP8-3</b>	<b>The influence of the plate positioning on opening wedge high tibial osteotomy with finite element analysis</b> Kentaro Shinohara   Department of Orthopedic Surgery, Yokohama City University Medical Center, Japan ..... 54
<b>FP8-4</b>	<b>Evaluation of the bone mineral density after opening wedge high tibial osteotomy</b> Shota Mitsuhashi   Orthopedic Surgery, Yokohama City University School of Medicine, Japan ..... 55
<b>FP8-5</b>	<b>Tibial condylar valgus osteotomy for advanced osteoarthritis of the knee</b> Akihiko Yonekura   Department of Orthopaedic Surgery, Nagasaki University Graduate School of Biomedical Sciences, Japan ..... 55
<b>FP8-6</b>	<b>Investigation of a predictive factor for acquiring an ideal realignment after opening-wedge high tibial osteotomy using imageless navigation system</b> Yohei Sasaki   Department of Orthopaedic Surgery, Yokohama City University Medical Center, Japan ..... 56

**15:05~15:25 Prof. Koshino Memorial Ceremony**

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**15:25~16:25 Prof. Koshino Memorial Session: HTO Lecture  
(Sponsored by Chugai Pharmaceutical Co., Ltd)**  
**Moderator** Tomoyuki Saito, David S. K. Choon

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**ML 40-year evolution of high tibial osteotomy**  
Dae-Kyung Bae | Orthopaedics, Kyung Hee University Hospital, Korea ..... 31

**16:30~18:00 Prof. Koshino Memorial Session: HTO Symposium  
(Sponsored by Anchor Medic K. K.)**  
**Moderator** Myung Chul Lee, Hwa-Chang Liu

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**MS-1 Proximal tibial anterior open-wedge oblique osteotomy for the treatment of genu recurvatum**  
Myung Chul Lee | Department of Orthopaedic Surgery, Seoul National University Hospital, Korea ..... 32

**MS-2 History of high tibial osteotomy**  
Parag K. Sancheti | Arthroscopy and Joint Replacement, Sancheti Institute for Orthopaedics and Rehabilitation, India ..... 32

**MS-3 An open-wedge osteotomy of the proximal tibia with hemicallotasis - technique and outcome -**  
Eiichi Nakamura | Department of Orthopaedic Surgery, Faculty of Life Sciences, Kumamoto University, Japan ..... 33

**MS-4 High tibial osteotomy for varus gonarthrosis - 20 years experience**  
Kandiah Raveendran | Orthopaedic Surgery, Fatimah Hospital, Malaysia ..... 33

**MS-5 Development of a new fixation system for high tibial osteotomy**  
Eiji Kondo | Department of Advanced Therapeutic Research for Sports Medicine, Hokkaido University Graduate School of Medicine, Japan ..... 34

**MS-6 Osteotomies for post-traumatic malunion around the knee**  
Cong-Feng LUO | Department of Orthopaedic Surgery, Shanghai 6th People's Hospital affiliated Shanghai Jiaotong University, China ..... 34

**18:00~18:20 Closing Ceremony**

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