

The Combined Meeting of 25th Annual Meeting of Thai Hip & Knee Society (THKS)  
and Asia Pacific Organization of Knee Arthroplasty (APOKA)  
2nd-4th Dec 2023  
Sheraton Hua Hin, Thailand

DAY 1 (2nd December 2023)								
Time	Meeting Room A	Moderators	Time	Meeting Room B	Time	Meeting Room C		
08.00-08.30	<b>Highlight of the year 2023</b>	<b>Moderators</b> Thanainit Chotanaphuti Aree Tanavalee						
08.00-08.10	Update in knee issues: highlight of 2023	Krit Boontanapibul						
08.10-08.20	Update in hip issues: highlight of 2023	Chavarat Jarungvittayakorn						
08.20-08.30	Discussion							
08.30-10.00	<b>OPENING CEREMONY</b>							
	National anthem of Thailand and THKS VDO	Srihatach Ngarmukos						
	Report of organizing THKS meeting by chairamn of the organizing committee	Thipachart Punyaratabandhu						
	Welcome: President of RCOST	Eun Kyoo Song						
	Welcome: APOKA founder	Satit Thiengwittayaporn						
	Welcome: President of THKS	Thipachart Punyaratabandhu						
	Opening of THKS meeting THKF, APOKA, THKS, RCOST, THKA	Thanainit Chotanaphuti						
		Aree Tanavalee						
		Satit Thiengwittayaporn						
		Eun Kyoo Song						
	25th THKS VDO presentation	Satit Thiengwittayaporn						
	Special lecture:The 25th Anniversary of THKS: from the past to the future	Aree Tanavalee						
	<b>Keokam award for outstanding publication</b>	Thanainit Chotanaphuti						
	: International publication recognition	Srihatach Ngarmukos						
	<b>THKF</b>	Surapoj Meknavin						
	: THKF innovation award	Vajara Wilairatana						
	<b>Ngarmukos honorary lecture &amp; life time achievement award</b>	Pornpavit Sripirhom						
	Ngarmukos honorary lecture:							
	Ngarmukos honorary lecture:							
	Ngarmukos honorary lecture:							
10.00-10.30	<b>COFFEE BREAK</b>							
10.30-12.00	<b>Hot topic in knee arthroplasty</b> <b>Achieving more satisfactory outcomes of TKA</b>	<b>Moderators</b> Thanainit Chotanaphuti Satit Thiengwittayaporn	10.30-12.00	<b>Panel discussion: complex and revision hip arthroplasty</b>	<b>Moderators</b> Apisit Pattamarat Saradej Khungsirikul	10.30-12.00	<b>THKS case consultations</b>	<b>Moderators</b> Viroj Kawinwonggowit Natthapong Hongku
10.30-10.40	Effect of medial compartment gap change during knee motion on patient satisfaction after TKA	Hirotsugu Muratsu			<b>Panelists</b>			
10.40-10.50	Robotic-assisted TKA	Tokifumi Majima			Yutaka Inaba			
10.50-11.00	Does a total knee system with 1-mm polyethylene thickness increment have clinical benefit?	Yong In			Michael Huo			<b>Panelists</b>
11.00-11.10	High flexion after TKA: is it possible and durable?	Yoshinori Kadoya			Myung-Rae Cho			Walob Samranvethya
11.10-11.20	Effect of rotational alignment and ligament balancing on knee kinematics and	Satoshi Hamai			Masaaki Matsubara			Pornpavit Sripirhom
11.20-12.00	Case discussion	<b>Panelists</b>			Chavanont Sumanasrethakul			Yingyong Suksathien
		Eun Kyoo Song			Boonchana Pongcharoen			Kriangsak Piyakunmala
		Fritz Thorey			<b>Presenters</b>			Theerawat Honnaparak
		Aree Tanavalee			Nonn Jaruthien	10.30-10.50	Case hip 1	Warakorn Jingjit
			10.30-10.50	Case 1: revision THA with femoral bone defect	Patcharavit Ploynumpon	10.50-11.10	Case knee 1	
			10.50-11.10	Case 2: THA in protusio acetabuli from previous hip prosthesis	Nikom Noree	11.10-11.30	Case hip 2	
			11.10-11.30	Case 3: PJI THA	Chayut Chaiperm	11.30-11.50	Case knee 2	
			11.30-11.50	Case 4: revision THA with acetabular bone defect		11.50-12.00	Summary	
			11.50-12.00	Summary				
12.00-13.00	<b>LUNCH SYMPOSIUM 1 (ALVOGEN)</b>		12.00-13.00	<b>LUNCH SYMPOSIUM 2 (VIATRIS)</b>		12.00-13.00	<b>MINI SYMPOSIUM 1 (LG)</b>	
13.00-14.30	<b>Keokam award paper presentation</b> (Present 7 min + OA 3 min)	<b>Moderators</b> Weerachai Kosuwon Piya Pinsomsak	13.00-14.30	<b>ICL case-based part I</b> <b>Complex primary TKA</b>	<b>Moderators</b> Sukit Saengnipanthkul Viroj Larpaiboonpong	13.00-14.30	<b>Workshop: B-Braun</b> <b>Enduro Rotation Hinge Knee</b>	<b>Moderator</b> Yingyong Suksathien
13.00-13.10	Direct anatomic registration in computer-assisted total hip arthroplasty improves accuracy of acetabular cup alignment	Apisit Pattamarat						<b>Speakers</b>
13.10-13.20	Digital templating of THA using PACS and an iPhone or iPad as accurate as commercial digital templating software	Anuwat Pongkunakorn	13.00-13.05	<b>Case presentation: severe fixed varus deformity knee</b>	Ekasame Vanitchaorenkul	13.00-13.10	Introduction to hinge knee revision system	Vajara Wilairatana
13.20-13.30	Abductor muscle function after anterolateral approach in patients with unilateral end-stage hip osteoarthritis undergoing total hip arthroplasty: A prospective study	Siwadol Wongsak	13.05-13.15	Neutral position of knee prosthetic component	Thanainit Chotanaphuti	13.10-13.20	Rotating hinge knee: Enduro Product design and surgical technique	Thanut Tippimanchai
13.30-13.40	Cement implantation syndrome in osteoporotic elderly femoral neck fracture undergoing cemented hip arthroplasty: A retrospective case-control study in 128 patients	Kulapat Chulsomlee	13.15-13.25	What is the final knee alignment we need?: slightly varus or perfect straight knee	Yasushi Oshima	13.20-13.30	Experience in Thailand and Thai reimbursement for rotating hinge knee revision	Thakrit Chompoosang
13.40-13.45	Discussion		13.25-13.35	Pie-crusting MCL might be suitable options	Nattapol Tammachote	13.30-13.35	Questions and answers	All
13.45-13.55	Intraoperative surgeon-performed versus conventional anesthesiologist-performed continuous adductor canal block in total knee arthroplasty: A randomized controlled trial	Chayut Chaiperm	13.35-13.40	Questions and answers		13.35-14.30	Sawbones workshop: Enduro	All
13.55-14.05	Clinical advantages of gradually reducing radius versus multi-radius total knee arthroplasty: a noninferiority randomized trial	Sakkadech Limmahakhun	13.40-13.45	<b>Case presentation: TKA in extra-articular deformity</b>	Wittawat Boonyanuwat			
15.45-15.50	Efficacy of periarticular infiltration with dexamethasone and bupivacaine plus adductor canal block relative to that of adductor canal block alone for patients Undergoing Total Knee Arthroplasty: A Retrospective Case-Matched Study	Varah Yuenyongviwat	13.45-13.55	How to make pre-operative evaluation accurately: technical tips	Ryuji Nagamine			
14.05-14.15			13.55-14.05	Intra or extra-articular correction	Tokifumi Majima			
14.15-14.25	Do we need to restore patellar thickness after total knee arthroplasty with patellar resurfacing		14.05-14.15	Staged or simultaneous bilateral TKA	Thana Narinsorasak			
14.25-14.30	Discussion		14.15-14.25	Pre-op retained hardware: how to deal with it	Apisit Pattamarat			
			14.25-14.30	Questions and answers				
14.30-15.00	<b>COFFEE BREAK</b>		14.30-15.00	<b>COFFEE BREAK</b>				
15.00-16.30	<b>Debate (TH)</b>	<b>Moderators</b> Thana Narinsorasak Siwadol Wongsak	15.00-16.30	<b>ICL case-based part II</b> <b>Revision TKA</b>	<b>Moderators</b> Pruk Chaikayit Boonchana Pongcharoen	15.00-16.30	<b>Workshop: Zimmer</b> <b>Knee Workshop</b> <b>Robotic TKA with ROSA: Why, When, and How?</b>	<b>Speakers</b>
15.00-15.30	<b>Recurrent dislocation after THA: Dual mobility cup for all</b>		15.00-15.05	<b>Case presentation: PJI after TKA</b>	Buncha Athikraimongkol			Nimit Thongpulsawasdi
15.00-15.10	Cons	Phonthakorn Panichkul	15.05-15.15	Outcomes of non-operative treatment in extreme age with multi-morbid patients	Ukrit Chaweewannakorn			Rapeepat Narkbunnam
15.10-15.20	Pros	Thakrit Chompoosang	15.15-15.25	DAIR: what are the factors for success?	Arjit Laorueanghana			Varah Yuenyongviwat
15.20-15.25	Vote		15.25-15.35	Single stage exchange for difficult PJI	Cao Li			
15.25-15.58	<b>Robotic TKA</b>		15.35-15.45	Two stage and technique of articulating spacer	Michael Huo			
15.25-15.35	Is it the new standard?	Chaturona	15.45-15.50	Questions and answers				
15.35-15.45	No patient benefit, just gimmick	Piti Rattanaaprechavej	15.50-15.55	<b>Case presentation: bone loss in revision TKA</b>	Thanasak Yakumpor			
15.45-15.50	Vote		15.55-16.05	Do we need metaphyseal fixation?	Yasushi Oshima			
15.50-16.30	<b>Displaced fracture neck of femur in elderly patients: arthroplasty options</b>	Rit Apinyankul	16.05-16.15	Metal wedge augmentation with stem extension is still enough	Varah Yuenyongviwat			
16.00-16.10	Total hip arthroplasty	Wiboon Wanicharoenpom	16.15-16.25	Cone and sleeve should be better	Tokifumi Majima			
16.10-16.15	Hemiarthroplasty		16.25-16.30	Questions and answers				
16.10-16.15	Vote							
16.15-16.30	Summary							

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DAY 2 (3rd Decembre 2023)							
Time	Meeting Room A	Time	Meeting Room B	Time	Meeting Room C	Time	Meeting Room C
08.30-10.00	<b>Hot topics in hip arthroplasty</b> <b>Current dilemma and breakthroughs in THA</b>  08.30-08.40 Long-term results of proximal fixed anatomical short stem 08.40-08.50 One-stage vs. two-stage bilateral THA - are there differences in complication and outcome? 08.50-09.00 Accuracy comparison of cup placement between THA using Mako robotic-arm assisted system and CT-based navigation. 09.00-09.10 THA in octogenarians and nonagenarians: age does matter? 09.10-09.20 Better design, greater satisfaction in total hip arthroplasty 09.20-10.00 Case discussion  Case1: Bilateral ON hip in young patient with Dorr type A femur Case 2: Primary or secondary OA hip in octogenarians or nonagenarians	<b>Moderators</b> Aree Tanavalee Charlee Sumettavanich  Masaaki Matsubara Fritz Thorey  Yutaka Inaba  Michael Huo Young-Kyun Lee  <b>Panelists</b> Satoshi Hamai Myung-Rae Cho Nattapol Tammachote Aasis Unnanuntana	<b>Panel discussion: complex and revision knee arthroplasty</b>  08.30-08.50 PF complications after TKA 08.50-09.10 Periprosthetic fracture femur 09.10-09.30 TKA in severe valgus knee 09.30-09.50 Stiff TKA 09.50-10.00 Summary	<b>Moderators</b> Piya Pinsornsak Chavanont Sumanasrethaku  <b>Panelists</b> Hirotsugu Muratsu Cao Li Ryuiji Nagamine Kang Il Kim Thana Narinsorasak Chaturong  <b>Presenters</b> Wasin Wichtipreeda Yuthana Kanasuk Pichayut Wattanaprecharon Anuchit Vejajiva	<b>THKS paper presentation I</b>  08.30-08.36 Extended stress lateral radiograph of the degenerative knee to define genu recurvatum 08.36-08.42 How anterior hip capsule affect hip tension in modified anterolateral approach primary THA 08.42-08.48 Comparison of gait analysis between robotic arm-assisted and conventional bilateral total knee arthroplasty 08.48-08.54 The Effectiveness of Postoperative Knee Flexion Position to Reduce Pain Without Increasing Flexion Contracture 08.54-09.00 Is cruciated retaining prosthesis had a good outcomes for severe valgus knee deformity? 09.00-09.15 Questions and answers  09.15-09.21 Could intramedullary femoral cement plug reduce blood transfusion rate in bilateral subvastus total knee arthroplasty 09.21-09.27 Accuracy of Offset Restoration Comparing Robotic THA with Manual THA 09.27-09.33 Severity of lateral tibiofemoral compartment cartilage lesion and outcome in medial UKA 09.33-09.39 Anti-inflammatory effect of platelet-rich plasma compared with steroid injection in osteoarthritis knee 09.39-09.45 Radiologic outcome of acetabular erosion after hemiarthroplasty in patients with femoral head size <42mm 09.45-10.00 Questions and answers	<b>Moderators</b> Weerabhai Kosuwon Natthapong Hongku  Kittipong Sirinboonpipattana Phachara Chaikaw  Nitchawat Piawanich  Yosawee Aokisopa Natthakan Barisri  <b>Anuwat Pongkunakorn</b> <b>Krit Boonthanapiboon</b>  Tanart Solomsak  Sarun Sukontahong Prayanun Tangjatsakow Natpawee Tanthaprabha Puech Wichaya	
10.00-10.30	COFFEE BREAK	10.00-10.30	COFFEE BREAK	10.00-10.30	COFFEE BREAK	10.00-10.30	COFFEE BREAK
10.30-12.00	<b>Evolution of the 25th year THKS: past, present, and future (TH)</b>  10.30-10.45 History of TKA in Thailand 10.45-11.00 History of THA in Thailand 11.00-11.20 Discussion 11.20-11.32 THKS survey and future trend 11.32-11.44 THKS strategic planning 2023 11.44-12.00 Discussion	<b>Moderators</b> Wallob Samranvethiya Surapoj Meknavin  Viraj Larbpaiboonpong Charlee Sumettavanich  Thana Narinsorasak Saith Thiangwittayaporn	<b>Advanced adult reconstruction course I (TH) for resident</b> <b>Knee</b>  10.30-10.38 Intramedullary versus extramedullary alignment guides in TKA 10.38-10.46 Severe varus knee: tips and tricks for ligamentous balancing 10.46-10.54 Severe valgus knee: tips and tricks for ligamentous balancing 10.54-11.02 Reconstruction principles for revision knee arthroplasty 11.02-11.12 Questions and answers 11.12-11.20 Aseptic failure of primary TKA: what are the common causes? 11.20-11.28 Biologic response to wear debris in joint replacement: principle concept 11.28-11.36 Common patellar complications after TKA 11.36-11.44 New innovation in total knee arthroplasty: robotic-assisted surgery 11.44-12.00 Questions and answers	<b>Moderators</b> Theerawit Hongnparak Kritkamol Sithitool  Buncha Athikraimongkol Danai Heebthamai Manoon Sakdinakittikoon Chotetawan Tanavalee  Wasin Wichtipreeda Puttipal Walpanya Wittawat Boonyanuwat Pichayut Wattanaprecharon	<b>THKS fellowship round table discussion</b> <b>Mandatory for THKS Fellowship</b>  10.30-11.00 Case hip: Recurrent dislocation THA, how to approach and management 11.00-11.30 Case knee: Varus-valgus constrained prosthesis and rotating hinged knee prosthesis in my practice, how I choose 11.30-12.00 Questions and answers	<b>Moderators</b> Kamolsak Sukhonthaman Khanin lamthanaporn  <b>Hip Panelists</b> Michael Huo Masaaki Matsubara Yutaka Inaba Satoshi Hamai Fritz Thorey  <b>Knee Panelists</b> Shuichi Matsuda Eun Kyoo Song Hirotsugu Muratsu Yoshinori Kadoya Ryuiji Nagamine  <b>Thai Panelists</b> Chavarat Jarungvittayakon Chavarin Amarase Phonthakorn Panichkul Sakkadech Limmahakun Wiboon Wanitchanoporn	
12.00-13.00	LUNCH SYMPOSIUM 3 (AMGEM)	12.00-13.00	LUNCH SYMPOSIUM 4 (TAISHO)	12.00-13.00	LUNCH SYMPOSIUM 2 (TRB)	12.00-13.00	LUNCH SYMPOSIUM 2 (TRB)
13.00-14.30	<b>Free paper presentation I</b> (Present 6 min + QA 4 min)  13.00-13.10 Functional performance outcomes at 1-year follow-up after treatment of knee osteoarthritis: comparison between platelet-rich plasma injection and oral 13.10-13.20 Descriptive analysis of the hip and knee joint replacement procedures of the University of the Philippines - Philippine General Hospital from 2012 to 2018 13.20-13.30 Hip replacement direct anterior approach 13.30-13.40 Double trouble: A rare case of sequential knee infections with tuberculosis and sporotrichosis; treated with total knee arthroplasty 13.40-13.45 Discussion 13.45-13.55 Management of avascular necrosis of the hip in HIV-infected patients: A aase series 13.55-14.05 Conservative femoral revision using short cementless stems with a tapered rectangular shape for selected Paprosky I-IV bone defects: a mean seven years' follow-up 14.05-14.15 Biologic cement barrier using amniotic membrane in bony defect management during revision total knee arthroplasty 14.15-14.25 Long-term outcomes of acetabular reconstruction using a combination of structural allograft and various grain allograft sizes in cases of Paprosky type 3 bone deficiency 14.25-14.30 Discussion	<b>Moderators</b> Binwadi Wongpak Thakrit Chompoosang  Chavarin Amarase  Jose Carlos Dumlaog  Phonevilay Sihalath Anmar Muizzuddin Manas  Marvin Pili Yicheng Li  Aulya Akbar  Patcharavit Ploynumpon	<b>Advanced adult reconstruction course II (TH) for resident</b> <b>Hip</b>  13.00-13.08 Tribology in THA: wear and corrosion issues 13.08-13.16 Bearing surface in THA: how many options we have 13.16-13.24 Cementation techniques for cemented acetabular and femoral component 13.24-13.32 Acetabular and femoral cementless implantation techniques: tips and tricks 13.32-13.42 Questions and answers 13.42-13.50 Trochanteric osteotomy in revision hip arthroplasty: when and how 13.50-13.58 Osteolysis after THA: how to approach 13.58-14.06 Management of dislocation after THA 14.06-14.14 Neurovascular complications after THA: what should we do 14.14-14.30 Questions and answers	<b>Moderators</b> Vajara Wilairatana Danai Heebthamai  Yuthana Kanasuk  Tulpong Ampool  Theerawit Hongnparak Vajara Wilairatana  Jithayut Sueajui Teerapat Adulayathum  Thanasak Yakumporn Khanin lamthanaporn	<b>Workshop: Johnson and Johnson</b>  <b>Dealing with revision hip</b>  13.00-13.15 Choosing the right stem 13.15-13.30 Planning for the ideal cup 13.30-13.45 Reconstructing the acetabular 13.45-14.00 Innovative wound closure strategies in hip arthroplasty 14.00-14.30 Workflow and instrument Stem station Cup station Cup reconstruction station Questions and answers	<b>Moderator</b> Charlee Sumettavanich  Ekasame Vanitcharoenkul  Phonthakorn Panichkul Srihatdech Ngarmukos Kittipong Naratirukun  Ekasame Vanitcharoenkul Phonthakorn Panichkul  <b>Chotetawan Tanavalee</b>	
14.30-15.00	COFFEE BREAK	14.30-15.00	COFFEE BREAK	14.30-15.00	COFFEE BREAK	14.30-15.00	COFFEE BREAK
15.00-16.30	<b>Challenges in TKA revision</b>  15.00-15.10 Alignment in TKA to prevent revision surgery 15.10-15.20 Trend shift in the cause of revision TKA over 17 years 15.20-15.30 Cemented or cementless stem for revision TKA: how to select 15.30-15.40 Level of prosthetic constraint: use more or try to use less 15.40-15.50 VVC implants combined with metaphyseal fixation for the treatment of low periprosthetic distal femur 15.50-16.00 When and how to use rotating hinge prosthesis 16.00-16.10 How to remove well-fixed sleeve and stem knee prosthesis 16.10-16.30 Questions and answers	<b>Moderators</b> Thanainit Chotanaputi Aasis Unnanuntana  Shuichi Matsuda Eun Kyoo Song Aasis Unnanuntana Pruk Chaikyait Cao Li Yoshinori Kadoya Saradej Khungsirikul	<b>ICL case-based part III</b> <b>Complex primary THA</b>  15.00-15.05 <b>Case presentation: DDH</b> 15.05-15.15 How to deal with acetabular and femoral anatomical abnormality? 15.15-15.25 <b>Selection of suitable patients for surgical treatment: when to operate</b> 15.25-15.35 <b>Surgical planning and prosthesis selection: tips and tricks</b> 15.35-15.45 <b>Questions and answers</b> 15.45-15.50 <b>Case presentation: Post traumatic OA hip with retained hardware</b> 15.50-16.00 Do we need to remove hardware before THA? 16.00-16.10 <b>Surgical technique for obtaining high success rate THA</b> 16.10-16.20 <b>Results of THA after acetabular fixation</b> 16.20-16.30 <b>Questions and answers</b>	<b>Moderators</b> Keerati Charoencholvachit Varah Yuenyongvivat  Withawat Jaderjananont Sakkadech Limmahakun Yingyong Suksathien Warakorn Jitgit  Khanin lamthanaporn Fritz Thorey Myung-Rae Cho Pompavit Sripirithom	<b>THKS paper presentation II</b>  15.00-15.06 Radiographic measurement for predicting the risk of periprosthetic tibial plateau fracture after Oxford cementless 15.06-15.12 Epinephrine-soaked in intramedullary femoral canal reduce blood loss in primary total knee arthroplasty : Random 15.12-15.18 Comparison of bone cement implantation syndrome in patient with cardiac disease and non-cardiac disease after 15.18-15.24 preoperative of total to posterior hip dislocation in case of posterior approach to total hip arthroplasty between 15.24-15.30 <b>preoperative outcomes and conventional total hip arthroplasty versus primary IHA in direct anterior approach: A</b> 15.30-15.45 <b>Retrospective cohort study with propensity score matching analysis</b> Questions and answers  15.45-15.51 Comparative study between Rosenberg view versus Standing AP view for detecting early OA knee 15.51-15.57 Outcomes of mobile bearing unicompartmental knee arthroplasty in medial osteoarthritis knee with and without 15.57-16.03 preoperative genu recurvatum minimal 5 year follow up 16.03-16.09 The effect of restoration of coronal tibiofemoral translation on medial unicompartmental knee arthroplasty 16.09-16.15 Hip center of total hip arthroplasty in each type of degenerative hip dysplasia of the hip 16.15-16.30 Comparison of floor activity after surgery between unicompartmental and total knee arthroplasties : A Propensity Questions and answers	<b>Moderators</b> Surapoj Meknavin Chavarin Amarase  Paphon Hirunvachoke Khomsan Chattana-anon Jiranawat Jamejaturanon Natapat Promkun Natapha Kiryapong  <b>Chaturong</b> <b>Pornrattanananeewong</b> <b>Piti Rattananaprecharoj</b> Nat Tinngorn  Sangsit Toviyaywet  Palad Surapongdech Teerarat Ruangdech Kanik Suksupha	

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DAY 3 (4th December 2023)							
Meeting Room A			Meeting Room B			Meeting Room C	
Time		Moderators	Time		Moderators	Time	
08.30-10.00	ICL Case-based part IV		8:30-10:00	Advanced adult reconstruction course III: case-based (TH) for resident		08.30-10.00	Free paper presentation II (Present 6 min + QA 4 min)
	Revision THA	Nattapol Tammachote Ukrit Chaweewannakorn			Piti Rattanaprechavaj Krit Boonthanapiboon		
08.30-08.35	Case presentation: periprosthetic fracture around THA: femur	Nuttawut Chanalithichai	08.30-08.50	Revision THA approach: bone defect management / prosthetic selection	Natthapong Hongku	08.30-08.40	Composition of Platelet-Rich Plasma Prepared From Knee Osteoarthritic Patients: Platelets, Leukocytes, and Subtypes of Leukocyte
08.35-08.45	How to clarify B1 or B2 or B3 correctly	Warakom Jingjit	08.50-09.10	PJI: approach / diagnosis and classification / bone defect management / component removal	Kamolsak Sukhonthaman	08.40-08.50	Comparison of intra-operative blood loss between using tourniquet pressure at two-time systolic blood pressure and 350 mmHg in patient undergoing total knee arthroplasty
08.45-08.55	Fixation of B2/B3 in elderly patients: does it work?	Chavarin Amarase	09.10-09.30	Periprosthetic fracture after THA	Ongart Phruethipat	08.50-09.00	Development of artificial intelligence algorithm for differentiation of knee prosthesis
08.55-09.05	Principle of revision: tips and tricks for pre-operative planning	Choletawan Tanavalee	09.30-09.50	UKA vs HTO for medial compartment OA knee in younger patients	Boonchana Pongcharoen	09.00-09.10	Discussion
09.05-09.15	How to prevention re-fracture and medical optimization after surgery	Ekasame Vanitcharoenkul	09.50-10.00	Questions and answers		09.10-09.20	Comparative efficacy study between fosfomycin and the standard antibiotic drugs in hip and knee arthroplasty
09.15-09.20	Questions and answers					09.20- 9030	Total knee arthroplasty, simultaneous bilateral total knee arthroplasty, deep vein thrombosis, proximal deep vein thrombosis, duplex, venous thromboembolic
09.20-09.25	Case presentation: loosening THA	Wiboon Wanitharoenporn				09.30-09.40	Efficacy of Post-operative Logbook-based Quadriceps Exercises on Functional Outcome after Total Knee Arthroplasty
09.25-09.35	Algorithmic approach of painful THA	Kritkamol Sithitool				09.40-09.50	Individualized alignment in total knee arthroplasty using image-based by RAPTOR and Visio programme assistance
09.35-09.45	Acetabular bone defect treatment options	Pruk Chaiyakit				09.50-10.00	Discussion
09.45-09.55	Femoral bone defect treatment options	Rapeepat Narkbunnam					
09.55-10.00	Questions and answers						
10.00-10.30	COFFEE BREAK		10.00-10.30	COFFEE BREAK		10.00-10.30	COFFEE BREAK
10.30-12.00	Challenges in THA revision		10.30-12.00	Dealing with intra-operative complications THA: Experience sharing (TH)		10.30-12.00	Workshop: Smith and Nephew Robotic-assisted knee surgery: past / present / future
		Artit Laoruengthana Choletawan Tanavalee			Varah Yuenyongviwat Rit Apinyankul		
10.30-10.40	Retaining well-fixed cementless stem in the treatment of infected hip arthroplasty	Piya Pinsomsak			Commentators		Panel discussion
10.40-10.50	ETO in well-fixed femoral component	Kriangsak Piyakunmala			Charlee Sumettavanich		Robotic TKA
10.50-11.00	Diaphyseal fully-coated stem	Aasis Unnanuntana			Apisit Pattamarat		Robotic UKA
11.00-11.10	Modular tapered fluted femoral stem; easy to use	Anuwat Pongkunakorn			Saradej Khungsirikul		Applying CPAK in robotic TKA: How robotic systems aid knee surgery: Precision and personalization
11.10-11.20	Managing large acetabular defect with traditional hemispherical cup	Chawat Jarungvittayakon	10.30-10.50	Irreducible THA	Rapeepat Narkbunnam		What to know about robotic TKA to knee revision surgery: Surgical workflow in robotic-assisted revision knee surgery
11.20-11.30	3D printing for massive acetabular bone loss	Keerati Charoencholvanich	10.50-11.10	Pelvic protrusion during acetabular reaming	Warakom Jingjit		
11.30-11.40	How to deal with pelvic discontinuity	Thakrit Chomposang	11.10-11.30	Intra-operative limb length discrepancy			
11.40-11.50	Metal augmentation for acetabular reconstruction: tips and tricks	Siwadol Wongsak	11.30-11.50	Femoral fracture during stem preparation			
11.50-12.00	Discussion		11.50-12.00	Summary			
12.00-13.00	LUNCH SYMPOSIUM 5 The Thai Red Cross Society						
13.00-14.30	Dealing with intra-operative complications TKA: Experience sharing (TH)						
		Moderators Varah Yuenyongviwat Rit Apinyankul					
		Commentators Aree Tanavalee Surapoj Meknavin Thana Narinsorasak Piya Pinsomsak Siwadol Wongsak Artit Laoruengthana Ukrit Chaweewannakorn					
		Scenario					
13.00-13.20	Iatrogenic MCL injury						
13.20-13.40	Unbalanced FG and EG						
13.40-14.00	Patellar fracture and tendon avulsion						
14.00-14.20	Intra-operative fracture tibial plateau during prosthesis insertion						
14.20-14.30	Summary						
14.30-15.00	COFFEE BREAK						
15.00-17.00	Current trends & technologies in hip and knee arthroplasty (Free paper)						
17.00-17.30	Closing Ceremony						