The 98th Annual Meeting of the Japanese Orthopaedic Association (I)

May 22-25, 2025 Tokyo Congress President: Norimasa Iwasaki, M.D. Department of Orthopaedic Surgery, Faculty of Medicine and Graduate School of Medicine, Hokkaido University

1st Day

May 22 Room 1

Only sessions marked as "English"

(TIF, Hall A)

will be conducted in English. $9:15\sim10:15$ JOA president lecture Moderator N. Iwasaki 1-1-JPL Past and future of the Japanese Orthopaedic Association ······Yasuharu Nakashima, Dept. of Orthop. Surg., Clinical Medicine, Graduate School of Medical Sciences, Kyushu Univ...S1 $10:30 \sim 11:30$ Ambitious lecture 1 Moderator Y. Iwamoto 1-1-AL1 $13:25 \sim 13:55$ Opening ceremony $14:05 \sim 14:45$ Congress president lecture Moderator S. Tanaka 1-1-PL Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ. $15:00 \sim 16:00$ **Cultural lecture** Moderator Y. Toyama Aiming for the world top 10 ·····················Kohzo Tashima, Japan Football Association···S2 1-1-CL Moderator A. Minami $16:15\sim17:15$ **Ambitious lecture 2** 1-1-AL2 Shaping Japan's future: A vision with the next generation of orthopaedic surgeons $17:30 \sim 18:30$ **Ambitious lecture 3** Moderator K. Yasuda 1-1-AL3 Lofty ambition and international expansion of developed medical devices 1st Day May 22 Room 2 (TIF, Hall C) $8:00 \sim 9:00$ Instructional lecture 1 Moderator H. Hagino 1-2-EL1 Considering the treatment of osteoporotic vertebral fractures from the perspective of drug selection ······· Naohisa Miyakoshi, Dept. of Orthop. Surg., Akita Univ. Graduate School of Medicine···S3 $9:15\sim10:15$ Instructional lecture 2 Moderator M. Takaso 1-2-EL2 Surgical treatment for pediatric intractable spinal deformity

...... Hiroshi Taneichi, Dept. of Orthop. Surg., School of Medicine, Dokkyo Medical Univ. S4

10.00	- 11:30 Instructional lecture 3	Moderator J. Takahashi
1-2-EL3	Introduction to case analysis in clinical ethics	
		······ Shimon Tashiro, Tohoku Univ.···S4
12:00 ~	- 13:10 Luncheon seminar 1	Moderator S. Imagama
1-2-LS1	Diagnosis and pain management of low back pai	n related disorders
	······Naosuke Kamei, Div. of Orthop. Sur	g., Dept. of Medicine of Sensory and Motor Organs,
		Faculty of Medicine, Univ. of Miyazaki…S5
15:00 ~	- 16: 20 Symposium 1	Moderators T. Miyamoto, H. Terai
Osteo	porosis treatment in spine surgery	
1-2-S1-1	Cement screws and anchor reinforcement in th	e treatment of osteoporotic spinal surgery
	····· Mitsuru Yagi, et al., Dept. of Ortl	nop. Surg., International Univ. of Health and Welfare…S6
1-2-S1-2	Vertebral augmentation for osteoporotic verteb	
		wa, Dept. of Orthop. Surg., Kindai Univ. Nara HospS6
1-2-S1-3	The role and limitations of drug therapy in spin	
1-2-S1-4	Rehabilitation for kyphosis with osteoporotic ve	et al., Dept. of Orthop. Surg., Dokkyo Medical Univ.···S7
12011		apy, Akita Univ. Graduate School of Health Sciences…S7
1-2-S1-5	Strategy for spinal deformity correction in elder	
	····· Masahiro Kanayama, et al., Dep	t. of Orthop. Surg., Hakodate Central General HospS8
16:30 ~	48.80 0 1 0	
	- 17: 50 Symposium 2	Moderators O. Shirado, N. Fujita
	17:50 Symposium 2 n up on understanding chronic low back pain	· · ·
	• •	treatments from the basics
Brush	Is really the rate of non-specific low back pain 8 Hidenori Suzuki, et al., Dept. of Orthop. S	treatments from the basics 5% ? urg., Yamaguchi Univ. Graduate School of Medicine…S9
Brush 1-2-S2-1 1-2-S2-2	Is really the rate of non-specific low back pain 8 Hidenori Suzuki, et al., Dept. of Orthop. S Sacroiliac joint disorder with diagnostic challen	treatments from the basics 5%? urg., Yamaguchi Univ. Graduate School of Medicine…S9 gesKoji Kaneoka, et al., Waseda UnivS9
Brush	Is really the rate of non-specific low back pain 8 Hidenori Suzuki, et al., Dept. of Orthop. S Sacroiliac joint disorder with diagnostic challen Are Modic change and HIZ the cause of low back	treatments from the basics 5%? urg., Yamaguchi Univ. Graduate School of Medicine…S9 ges
Brush 1-2-S2-1 1-2-S2-2	Is really the rate of non-specific low back pain 8 Hidenori Suzuki, et al., Dept. of Orthop. S Sacroiliac joint disorder with diagnostic challen Are Modic change and HIZ the cause of low back	treatments from the basics 5%? urg., Yamaguchi Univ. Graduate School of Medicine…S9 ges Koji Kaneoka, et al., Waseda UnivS9 ck pain?: Introducing the diagnostic methods and Dept. of Orthop., Institute of Biomedical Sciences,
Brush 1-2-S2-1 1-2-S2-2 1-2-S2-3	Is really the rate of non-specific low back pain 8 Hidenori Suzuki, et al., Dept. of Orthop. S Sacroiliac joint disorder with diagnostic challen Are Modic change and HIZ the cause of low back the latest treatments Saori Soeda, et al.,	treatments from the basics 5%? urg., Yamaguchi Univ. Graduate School of Medicine…S9 ges ··············Koji Kaneoka, et al., Waseda UnivS9 ck pain?: Introducing the diagnostic methods and Dept. of Orthop., Institute of Biomedical Sciences, Tokushima Univ. Graduate School…S10
Brush 1-2-S2-1 1-2-S2-2	Is really the rate of non-specific low back pain 8 Hidenori Suzuki, et al., Dept. of Orthop. S Sacroiliac joint disorder with diagnostic challen Are Modic change and HIZ the cause of low back the latest treatments Saori Soeda, et al., Skeletal muscle function and exercise therapy i	treatments from the basics 5%? urg., Yamaguchi Univ. Graduate School of Medicine…S9 ges ············· Koji Kaneoka, et al., Waseda UnivS9 ck pain?: Introducing the diagnostic methods and Dept. of Orthop., Institute of Biomedical Sciences, Tokushima Univ. Graduate School…S10 in the elderly
Brush 1-2-S2-1 1-2-S2-2 1-2-S2-3	Is really the rate of non-specific low back pain 8 Hidenori Suzuki, et al., Dept. of Orthop. S Sacroiliac joint disorder with diagnostic challen Are Modic change and HIZ the cause of low bac the latest treatments Saori Soeda, et al., Skeletal muscle function and exercise therapy i	treatments from the basics 5%? urg., Yamaguchi Univ. Graduate School of MedicineS9 ges
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Brush 1-2-S2-1 1-2-S2-2 1-2-S2-3 1-2-S2-4 1-2-S2-5	Is really the rate of non-specific low back pain 8	treatments from the basics 5%? urg., Yamaguchi Univ. Graduate School of MedicineS9 ges
Brush 1-2-S2-1 1-2-S2-2 1-2-S2-3 1-2-S2-4 1-2-S2-5	Is really the rate of non-specific low back pain 8	treatments from the basics 5%? urg., Yamaguchi Univ. Graduate School of MedicineS9 ges

1–3–EL4 Biomechanics of TKA······ *Tokifumi Majima*, Dept. of Orthop. Surg., Field of Surg., Nippon Medical School, Graduate School of Medicine···S12

			nee: Current state and inno		rts Med., Hokkaido UnivS12
10:30) ~ 11 : 30	Free papers 1	Liji IX		A. Kanamori, Y. Akasaki
		nb alignment			,
1-3-1	_	_	ges of the lower limb and t al., Dept. of Orthop. Surg	-	n knee osteoarthritis duate School of Medicine…S13
1-3-2	The distal t	ibial plafond slope	is approximately parallel t	o the lateral posterio	
1-3-3			full-length bilateral stand		l., Dept. of Orthop. Surg.,
1-3-4	patients w	ith knee osteoarth	d tibial coronal alignment ritis ···· Takashi Tsuda, et	in Japan: A multicent al., Dept. of Orthop.	Surg., Ehime Univ. HospS14
1-3-5	deformity	tendency compare	of the knee classification of ed to the other countries		
1-3-6	Deformity a	analysis and distrib	oution survey of CPAK clas	ssification in lateral-ty	f Orthop., Juntendo UnivS15 pe osteoarthritis of duate School of Medicine…S15
12:00	~ 13:10	Luncheon sem	inar 2		Moderator Y. Ishibashi
1-3-LS2			osteoarthritis of knee join of Orthop. Surg., Graduat		Sciences Kanazawa Univ ···S16
				e belioof of Medical (Sciences, Ranazawa Univ. 510
15:00	~ 16:00	Instructional l	ecture 6	e sensor or wreateur	Moderator K. Iwasaki
15:00 1-3-EL6	Current	status and future d	lirection of regenerative m	edicine: Aiming to re	Moderator K. Iwasaki
1-3-EL6	Current	status and future d	lirection of regenerative m	edicine: Aiming to re	Moderator K. Iwasaki ealize medical therapy
1-3-EL6	Current that en 5 ~ 17:05 Continuou general p	status and future of hances cell ability Free papers 2 sly agricultural wo population longitud	lirection of regenerative m	nedicine: Aiming to re Dept. of Plast. and Re Moderators elopment of knee oste	Moderator K. Iwasaki ealize medical therapy econst. Surg., Kyoto UnivS16 M. Nakajima, J. Nakase eoarthritis: 15-year
1-3-EL6	Current that en 5 ~ 17:05 Continuou general position	status and future of hances cell ability Free papers 2 sly agricultural wo population longitud Eitaro Sato, et pain is predictor opescale general population of the state of the st	lirection of regenerative m	Moderators Pelopment of knee oste Hirosaki Univ. Graphic knee osteoarthr	Moderator K. Iwasaki calize medical therapy cconst. Surg., Kyoto UnivS16 M. Nakajima, J. Nakase coarthritis: 15-year duate School of MedicineS17 itis: A longitudinal study
1-3-EL6 16:05 1-3-7	Current that en 5 ~ 17:05 Continuou general p Knee joint of a large	status and future of hances cell ability Free papers 2 sly agricultural wo population longitud Eitaro Sato, et pain is predictor of escale general pop Yugo Morita, contributes to enlar	Irrection of regenerative many substitution of regenerative many substitution. Yasuhiko Tabata, land the Common of the development of the Common of the Comm	Moderators Moderators Plast. and Re Moderators Plopment of knee oste Hirosaki Univ. Graphic knee osteoarthr g., Graduate School esions in the aged pe	Moderator K. Iwasaki calize medical therapy const. Surg., Kyoto UnivS16 M. Nakajima, J. Nakase coarthritis: 15-year duate School of MedicineS17 itis: A longitudinal study of Medicine, Kyoto UnivS17 cople with primary knee Dept. of Sports Medicine,
1-3-EL6 16:05 1-3-7 1-3-8	Current that en that en to the continuous general process. Knee joint of a large osteoarth Cross-sect artificial	status and future of hances cell ability Free papers 2 sly agricultural we copulation longitude to pain is predictor of escale general popers and the pain is predictor of escale general popers and the pain is predictor of escale general popers. Yugo Morita, contributes to enlar aritis: The Bunkyo dional study on risk intelligence	Irrection of regenerative many authors of the development of radiographical forms of Orthop. Surgement of bone marrow length the study al., Dept. of Orthop. Surgement of bone marrow length the study authors of Orthop. Surgement of bone marrow length the study	Moderators Plast. and Re Moderators Plopment of knee oste Hirosaki Univ. Graphic knee osteoarthr Moderators Graduate School esions in the aged per and of the Univ. School of School	Moderator K. Iwasaki calize medical therapy const. Surg., Kyoto UnivS16 M. Nakajima, J. Nakase coarthritis: 15-year duate School of MedicineS17 itis: A longitudinal study of Medicine, Kyoto UnivS17 cople with primary knee Dept. of Sports Medicine, ports and Health ScienceS18 ealth examinations using
1-3-EL6 16:05 1-3-7 1-3-8 1-3-9	Current that en that en to a large	status and future of hances cell ability Free papers 2 sly agricultural wo copulation longitude to be pain is predictor of escale general population. Yugo Morita, contributes to enlaratis: The Bunkyo ional study on risk intelligence	knee: OA Trking is a risk for the development of radiogramulation et al., Dept. of Orthop. Surgement of bone marrow lealth study Junter factors for knee osteoarth state, Dept. of Orthop. Surgement of bone marrow lealth study	Moderators Moderators Plast. and Re Moderators Plopment of knee oste Hirosaki Univ. Gradulite School Resions in the aged per Hun Shiozawa, et al., I Hirosaki Univ. School of Sonritis in community h Hirosaki Univ. Grade	Moderator K. Iwasaki calize medical therapy const. Surg., Kyoto UnivS16 M. Nakajima, J. Nakase coarthritis: 15-year duate School of MedicineS17 itis: A longitudinal study of Medicine, Kyoto UnivS17 cople with primary knee Dept. of Sports Medicine, ports and Health ScienceS18 cealth examinations using

Moderator A. Yonekura

 $9:15 \sim 10:15$

Instructional lecture 5

		s' proposed symposium ascular and musculoskel	Moderators K. Maemura, H. Kawano etal systems in the era of 100-year lifespan
1-3-JS1-			wa, Dept. of Cardiovasc. Med., Univ. of Tokyo…S20
1-3-JS1-			ion and intervention Kamiya, Dept. of Rehabilitation, Kitasato UnivS20
1-3-JS1-	•••••		Dept. of Rehabilitation Medicine, Teikyo Univ.···S21
1-3-JS1-		n cardiovascular disease an ·· <i>Yukio Mikami</i> , Dept. of Re	id locomotive syndrome ehabilitation Medicine, Hiroshima Univ. HospS21
		1st Day May 22	Room 4 (TIF, Hall B7(2))
8:00	~ 9:00 Instructional le	cture 7	Moderator K. Hiraoka
1-4-EL7		hopaedic surgeons: From s Center for Medical Educatio	tudent to resident on and International Relations, Hokkaido UnivS22
9:15	~ 10:15 Instructional l	ecture 8	Moderator S. Fujibayashi
1-4-EL8			ould know in orthopaedic practice for Translational Research, Osaka Univ. HospS22
10:30) ~ 11 : 30 Free papers 3	Basic reseach 1	Moderators K. Yamada, K. Maruo
10:30 1-4-1	Regulation of angiogenetic fa	actor by epigenetics in patie	·
	Regulation of angiogenetic faligamentous flavum ·········· Evaluating the efficiency of each A rat model study	nctor by epigenetics in patie Yuya Chosei, et al., Dept. of early decompression in SCI	onts with ossification of the Orthop. Surg., Shiga Univ. of Medical Science…S23 WORA with moderate contusion:
1-4-1 1-4-2	Regulation of angiogenetic faligamentous flavum ··········· Evaluating the efficiency of each arat model study ····································	actor by epigenetics in patie Yuya Chosei, et al., Dept. of early decompression in SCP ashima, Dept. of Orthop. Su	ents with ossification of the Orthop. Surg., Shiga Univ. of Medical Science…S23
1-4-1 1-4-2 1-4-3	Regulation of angiogenetic faligamentous flavum ············ Evaluating the efficiency of each A rat model study ····································	eactor by epigenetics in patients and the sector by epigenetics in patients are sector of the sector	onts with ossification of the Orthop. Surg., Shiga Univ. of Medical Science···S23 WORA with moderate contusion: rg., Graduate School of Medicine, Chiba Univ.···S23 t force and hip disease after lumbar urg., Akita Univ. Graduate School of Medicine···S24
1-4-1 1-4-2 1-4-3	Regulation of angiogenetic faligamentous flavum ········· Evaluating the efficiency of each A rat model study ····································	actor by epigenetics in patie Yuya Chosei, et al., Dept. of early decompression in SCF ashima, Dept. of Orthop. Su changes of hip joint contact as, et al., Dept. of Orthop. Shological bone resorption a	onts with ossification of the Orthop. Surg., Shiga Univ. of Medical Science···S23 WORA with moderate contusion: rg., Graduate School of Medicine, Chiba Univ.···S23 t force and hip disease after lumbar urg., Akita Univ. Graduate School of Medicine···S24 fter discontinuation of anti RANKL antibody
1-4-1 1-4-2 1-4-3 1-4-4	Regulation of angiogenetic faligamentous flavum ········· Evaluating the efficiency of each arat model study ····································	actor by epigenetics in patie Yuya Chosei, et al., Dept. of early decompression in SCP ashima, Dept. of Orthop. Su changes of hip joint contact a, et al., Dept. of Orthop. Shological bone resorption a	onts with ossification of the Orthop. Surg., Shiga Univ. of Medical Science···S23 WORA with moderate contusion: rg., Graduate School of Medicine, Chiba Univ.···S23 t force and hip disease after lumbar urg., Akita Univ. Graduate School of Medicine···S24 fter discontinuation of anti RANKL antibody ··· Hotaka Ishizu, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Hokkaido Univ.···S24
1-4-1 1-4-2 1-4-3 1-4-4	Regulation of angiogenetic faligamentous flavum ········ Evaluating the efficiency of each rat model study ····································	actor by epigenetics in patie Yuya Chosei, et al., Dept. of early decompression in SCF ashima, Dept. of Orthop. Su changes of hip joint contact a, et al., Dept. of Orthop. Shological bone resorption a Faculty of Medicine and ady identifies novel suscepti	onts with ossification of the Orthop. Surg., Shiga Univ. of Medical Science···S23 WORA with moderate contusion: rg., Graduate School of Medicine, Chiba Univ.···S23 torce and hip disease after lumbar urg., Akita Univ. Graduate School of Medicine···S24 fter discontinuation of anti RANKL antibody ··· Hotaka Ishizu, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Hokkaido Univ.··S24 ibility loci specific to thoracic ossification of
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1-4-1 1-4-2 1-4-3 1-4-4	Regulation of angiogenetic faligamentous flavum Evaluating the efficiency of each arat model study	actor by epigenetics in patie Yuya Chosei, et al., Dept. of early decompression in SCF ashima, Dept. of Orthop. Su changes of hip joint contact at, et al., Dept. of Orthop. Shological bone resorption a Faculty of Medicine and ady identifies novel susceptigament Faculty of Medicine and of ossification of posterior lo	onts with ossification of the Orthop. Surg., Shiga Univ. of Medical Science···S23 WORA with moderate contusion: rg., Graduate School of Medicine, Chiba Univ.···S23 troce and hip disease after lumbar urg., Akita Univ. Graduate School of Medicine···S24 fter discontinuation of anti RANKL antibody ·· Hotaka Ishizu, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Hokkaido Univ.···S24 (bility loci specific to thoracic ossification of · Yoshinao Koike, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Hokkaido Univ.···S25 ongitudinal ligament using polygenetic
1-4-1 1-4-2 1-4-3 1-4-4 1-4-5	Regulation of angiogenetic faligamentous flavum Evaluating the efficiency of each arat model study	actor by epigenetics in patie Yuya Chosei, et al., Dept. of early decompression in SCP ashima, Dept. of Orthop. Su changes of hip joint contact a, et al., Dept. of Orthop. Shological bone resorption a Faculty of Medicine and ady identifies novel susceptigament Faculty of Medicine and of ossification of posterior lossification posterior lossification of posterior lossification of posterior lossification posterior	onts with ossification of the Orthop. Surg., Shiga Univ. of Medical Science···S23 WORA with moderate contusion: rg., Graduate School of Medicine, Chiba Univ···S23 torce and hip disease after lumbar urg., Akita Univ. Graduate School of Medicine···S24 fter discontinuation of anti RANKL antibody ·· Hotaka Ishizu, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Hokkaido Univ···S24 ibility loci specific to thoracic ossification of · Yoshinao Koike, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Hokkaido Univ···S25
1-4-1 1-4-2 1-4-3 1-4-4 1-4-5 1-4-6	Regulation of angiogenetic faligamentous flavum Evaluating the efficiency of each arat model study	actor by epigenetics in patie Yuya Chosei, et al., Dept. of early decompression in SCF ashima, Dept. of Orthop. Su changes of hip joint contact a, et al., Dept. of Orthop. Shological bone resorption a Faculty of Medicine and addy identifies novel suscepting ament. Faculty of Medicine and of ossification of posterior lossification of posterior lossification of Medicine and Faculty of Medicine and of ossification of Medicine and	onts with ossification of the Orthop. Surg., Shiga Univ. of Medical Science···S23 WORA with moderate contusion: rg., Graduate School of Medicine, Chiba Univ.···S23 t force and hip disease after lumbar urg., Akita Univ. Graduate School of Medicine···S24 fter discontinuation of anti RANKL antibody ··· Hotaka Ishizu, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Hokkaido Univ.···S24 ibility loci specific to thoracic ossification of · Yoshinao Koike, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Hokkaido Univ.···S25 ongitudinal ligament using polygenetic · Yoshinao Koike, et al., Dept. of Orthop. Surg.,

-LS3 Tips for successful high tibial osteotomy with prevention of complications Shinichi Kuriyama, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Kyoto Univ.... S26

15:00 ~ What		JOA Directors do? When a la					Y. Tajiri, Y. Shinto
1-4-JS2-1		ning and future					icine, Tottori Univ.···S27
1-4-JS2-2	Orthopa	edic transportat	ion triage				xai Medical Center…S27
1-4-JS2-3	Efforts a	as an orthopaedi	c surgeon to p	prevent disa	ster-related o	deaths due to	ura Orthop. Hosp.···S28
1-4-JS2-4	Support	for musculoske	etal disorders	s during dis	asters from t	he perspective of	
1-4-JS2-5	The nee	d for coordinato	rs for musculo	oskeletal dis	sorders in dis	sasters	Toranomon Hosp.···S29
16:30 ~ Regist	- 17:50	Symposium 3			Мо	derators H. A	kiyama, S. Matsuda roplasty) in Japan
1-4-S3-1							
1-4-S3-2		rence in outcom			ches		
1-4-S3-3	 Junichi Nakamura, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Chiba UnivS30 Multicenter analysis of hip arthroplasty from the Japanese investigation committee for osteonecrosis of the femoral head						
1-4-S3-4					·····Yukih		t. of Orthop. Surg.,
1-4-S3-5				nce of new t	echnology in	cluding robotic s	
1-4-S3-6	Tomoyuki Matsumoto, et al., Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine S32 Joint arthroplasty registry in Japan Shinichi Kuriyama, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Kyoto Univ S32						
	1st Day May 22 Room 5 (TIF, Hall D7))	
8:00~	9:00 I	nstructional le	cture 9			Mo	oderator K. Tanaka
1-5-EL9		ent status of oste ··· Hiroaki Hirag			-	-	ido Cancer Center···S33
9:15~	10:15	Instructional l	ecture 10			Mode	rator N. Kawahara
1-5-EL10		chopaedics: A no		-	_		Surg., Teikyo UnivS33
10:30 ~	11:30	Free papers 4	Tumor: M	alignant b	one tumor	Moderato	rs A. Ogose, K. Ae
1-5-1 L	ong-term c	omplications and	functional/q	uality of life	outcomes af	ter cementless n	inimally-invasive

...... Yusuke Tsuda, et al., Dept. of Orthop. Surg., The Univ. of Tokyo Hosp., The Univ. of Tokyo ... S34

extendable endoprosthesis replacement in patients with bone sarcomas

1-5-2	Long-term outcomes of mega-prostheses for distal:	
	······Seiji Shimomura, et al., Dep	ot. of Musculoskeletal Oncology and Rehabilitation,
		National Cancer Center Hosp.···S34
1-5-3	Identification of p21-positive immature osteoblasts	in the long bone of growing mice
		sato Saito, et al., Dept. of Orthop. Surg., Keio Univ.···S35
1-5-4	Age-related genomic alterations in osteosarcoma	, , , 1
		o. Surg., Graduate School of Medicine, Osaka Univ.···S35
1-5-5	The relationship between radiological change and p	
100	chemotherapy in osteosarcoma	Jamoiogical effect and prognosis after
		Community Training Indian Conductor Colored of Medicine Color
4 5 0		. Surg., Tohoku Univ. Graduate School of Medicine…S36
1-5-6	Clinical outcomes of osteosarcoma with lung metas	stasis thorough the classification by
	chronological order	
	······································	f Musculoskeletal Oncol., Hokkaido Cancer Center···S36
12:0	00 ~ 13 : 10 Luncheon seminar 4	Moderator S. Tanaka
1-5-LS4	Bone quality deterioration risks severe vertebral	and femoral fractures-accurate bone quality
	assessment-based therapy	
		f Orthop. Surg., The Jikei Univ. School of Medicine…S37
15:0	00 ~ 16: 20 Symposium 4	Moderators M. Mawatari, T. Sakai
The	e latest insights on idiopathic femoral head necr	osis
1 5 04	1 Enidomiology of extremologic of the femous h	and Wakaka Eukushima Dont of Bublic Hoolth
1-5-S4-		ead ··· Wakaba Fukushima, Dept. of Public Health,
		xa Metropolitan Univ. Graduate School of Medicine…S38
1-5-S4-	1	
		··· Tomohiro Shimizu, et al., Dept. of Orthop. Surg.,
		and Graduate School of Medicine, Hokkaido Univ.···S38
1-5-S4-		evention of steroid-associated osteonecrosis of the
	femoral head · · · · · · · · · · · · · · · · · · ·	····· Goro Motomura, et al., Dept. of Orthop. Surg.,
	Clinical Medicine, C	Graduate School of Medical Sciences, Kyushu Univ.···S39
1-5-S4-	-4 Autologous concentrated bone marrow injection	n for idiopathic osteonecrosis of the femoral head
		···· Yasuhiro Homma, et al., Dept. of Orthop. Surg.,
		Juntendo Tokyo Koto Geriatric Medical Center···S39
1-5-S4-	-5 History and prospects of the development of mi	inimally invasive regenerative medicine for ONFH
1 0 01		p. Surg., Graduate School of Medicine, Kyoto Univ.···S40
		p. ourg., Graduate denoted of Medicine, Hydro Cinv. 510
	$30 \sim 17:50$ Symposium 5	Moderators K. Seki, H. Asahara
Ne	w developments in the network of muscles, tend	lons, joints,
and	d nerves in motor function expression	
1-5-S5-	-1 A novel role of spinal reflex circuits in mediating	g voluntary control of arm and finger movements
	·····Kazuhiko	Seki, National Center of Neurology and PsychiatryS41
1-5-S5-		
		of Systems BioMedicine, Institute of Science Tokyo…S41
1-5-S5-		
1 0 30		
1 5 05		Grad. Sch. of Health and Sports Sci., Juntendo Univ.···S42
1-5-S5-		ses revealed by a novel optical bone clearing
	technique (Osteo-DISCO method)	
	······Shingo Sato, et al., Center for Innov	ative Cancer Treatment, Institute of Science Tokyo…S42

	1st Day May 22 Room 6 (TIF, Hall D5)
8:00	$\sim 9:00$ Free papers 5 Elbow Moderators S. Uchiyama, Y. Nishiura
1-6-1	Differences of visibility in arthroscopy of elbow joint using nanoscope based on experience level
1-6-2	Contribution to nerve regeneration of supercharge (reverse) end-to-side nerve transfer for severe cubital tunnel syndrome ····································
1-6-3	Clinical outcome of lateral collateral ligament repair for lateral humeral epicondylitis with ligament disorder
1-6-4	Debridement and repair with tendon advancement using suture bridging for lateral epicondylitis: Clinical outcomes and findings of magnetic resonance imaging
1-6-5	Efficacy and predictive factors of focused shock wave therapy for refractory lateral epicondylitis
1-6-6	Bursa plication for non-infectious olecranon bursitis
9:15	~ 10:15 Instructional lecture 11 Moderator T. Wada
1-6-EL	
1-6-EL	
1-6-EL	
1-6-EL2 10:3 1-6-7 1-6-8	Tetsuya Matsuura, Dept. of Rehabil. Med., Tokushima Univ. HospS4 11-2 Osteochondritis dissecans of the elbow: Recent evolution Masatoshi Takahara, Izumi Orthop. HospS4 10 ~ 11:30 Free papers 6 RA: Disease activity Moderators T. Matsubara, K. Maeda Relationship between long-term progression of rheumatoid wrist deterioration and disease activity Hiroyuki Wada, et al., Dept. of Rheumatol., Niigata Rheumatic Center…S4 Impact of early therapy for radiographic destruction in patients with early rheumatoid arthritis from real-world data in the last decade … Kentaro Takeuchi, et al., Dept. of Orthop. Surg., Yamagata UnivS4
1-6-EL2 10:3	
1-6-EL2 10:3 1-6-7 1-6-8	Osteochondritis dissecans of the elbow: Recent evolution Masatoshi Takahara, Izumi Orthop. Hosp. S4 Telsuya Matsuura, Dept. of Rehabil. Med., Tokushima Univ. Hosp. S4 More 11:30 Free papers 6 RA: Disease activity Moderators T. Matsubara, K. Maeda Relationship between long-term progression of rheumatoid wrist deterioration and disease activity Hiroyuki Wada, et al., Dept. of Rheumatol., Niigata Rheumatic Center S4 Impact of early therapy for radiographic destruction in patients with early rheumatoid arthritis from real-world data in the last decade **Kentaro Takeuchi, et al., Dept. of Orthop. Surg., Yamagata Univ. S4 Microarchitectural analysis of the metacarpophalangeal joint using HR-pQCT in patients with rheumatoid arthritis **Kounosuke Watanabe, et al., Dept. of Orthop. Surg., Nagasaki Univ. Graduate School of Biomedical Sciences S4 The relationship between PROMs and disease activity, locomotive syndrome risk level, and physical function assessment in patients with rheumatoid arthritis
1-6-EL: 10:3 1-6-7 1-6-8 1-6-9	Osteochondritis dissecans of the elbow: Recent evolution Masatoshi Takahara, Izumi Orthop. Hosp. S4 Telsuya Matsuura, Dept. of Rehabil. Med., Tokushima Univ. Hosp. S4 More 11:30 Free papers 6 RA: Disease activity Moderators T. Matsubara, K. Maeda Relationship between long-term progression of rheumatoid wrist deterioration and disease activity Hiroyuki Wada, et al., Dept. of Rheumatol., Niigata Rheumatic Center S4 Impact of early therapy for radiographic destruction in patients with early rheumatoid arthritis from real-world data in the last decade **Kentaro Takeuchi, et al., Dept. of Orthop. Surg., Yamagata Univ. S4 Microarchitectural analysis of the metacarpophalangeal joint using HR-pQCT in patients with rheumatoid arthritis **Kounosuke Watanabe, et al., Dept. of Orthop. Surg., Nagasaki Univ. Graduate School of Biomedical Sciences S4 The relationship between PROMs and disease activity, locomotive syndrome risk level, and physical
1-6-EL: 10:3 1-6-7 1-6-8 1-6-9 1-6-10	Osteochondritis dissecans of the elbow: Recent evolution Masatoshi Takahara, Izumi Orthop. Hosp. S4 Telsuya Matsuura, Dept. of Rehabil. Med., Tokushima Univ. Hosp. S4 More 11:30 Free papers 6 RA: Disease activity Moderators T. Matsubara, K. Maeda Relationship between long-term progression of rheumatoid wrist deterioration and disease activity Hiroyuki Wada, et al., Dept. of Rheumatol., Niigata Rheumatic Center S4 Impact of early therapy for radiographic destruction in patients with early rheumatoid arthritis from real-world data in the last decade Kentaro Takeuchi, et al., Dept. of Orthop. Surg., Yamagata Univ. S4 Microarchitectural analysis of the metacarpophalangeal joint using HR-pQCT in patients with rheumatoid arthritis Kounosuke Watanabe, et al., Dept. of Orthop. Surg., Nagasaki Univ. Graduate School of Biomedical Sciences S4 The relationship between PROMs and disease activity, locomotive syndrome risk level, and physical function assessment in patients with rheumatoid arthritis Rena Wakabayashi, et al., Dept. of Orthop. Surg., Koto Hosp. S4

12:00~	13:10 Lu	ncheon sem	inar 5			Moderators	N. Adachi, H. Ito
1-6-LS5-1 1-6-LS5-2	The position	······Eiji Sasa n of surgery a ii Asai, et al.,	aki, Dept. of on the second near the second ne	Orthop. Surtion in the top./Rheun	rg., Hirosaki U reatment of rl natology, Mus	neumatoid arthri culoskeletal and	hool of Medicine…S51
15:00 ~ Late-on	16:20 System 16:20 System 16:20	mposium 6 oid arthritis	(LORA) and	l similar d	iseases	Moderators	H. Niki, M. Takagi
1-6-S6-1 1-6-S6-2	Differential d	iagnosis and	treatment of	late-onset rl • Tadashi Ol	heumatoid art kano, Center f	chritis and polym for Senile Degene	., Yamagata UnivS52 yalgia erative Disorders, hool of Medicine…S52
1-6-S6-3	arthritis ("p	seudogout")		iagnosis be	tween late-ons	set RA and CPP c	rystal induced
1-6-S6-4	Late-onset rh	eumatoid artl	hritis (LORA)	and simila	r conditions: I	Differentiating fr	eumatic Diseases…S53 om osteoarthritis rasaki City HospS53
16:30~	17:50 Sy	mposium 7			Мо	derators K. Sl	nimada, Y. Iwahori
Treatm	ent strategies	for osteoch	ondritis dis	secans of	the humeral	capitellum	
1-6-S7-1 1-6-S7-2		G	raduate Scho	ool of Medic	········· Yoshii al Science, Ky	kazu Kida, et al.,	Dept. of Orthop., Univ. of Medicine…S54
1-6-S7-3	osteochond	ral defects in	rabbits ····· <i>Masahir</i>	o Maruyam	a, et al., Dept.		., Yamagata UnivS54
1-6-S7-4	Conservative	treatment of	osteochondr	····· <i>Norim</i> itis dissecar	asa Takahash ns of the humo	<i>i, et al</i> ., Funabas eral capitellum: F	hi Orthop. HospS55 ocused
1-6-S7-5	Our surgical	treatment stra	ategy for oste	eochondritis	dissecans of	the humeral capi	o. & Sports Clinic…S55 tellum dicine, Keio UnivS56
			1st Day	May 22	Room 7	(TIF, Hall D1)
8:00~9	: 00 Free	papers 7 C	Cervical spin	ne	N	Moderators Y.	Arai, A. Minamide
		urgery ·····		··Hiroaki C	numa, et al.,		g anterior and Spinal Surg., of Science Tokyo…S57
	vestigation of r			····Yu Mats	sukura, et al.,	Dept. of Orthop.	and Spinal Surg., of Science Tokyo…S57
	e risk factors	of the poor pr	ognosis in pa	itients with	dropped head	syndrome	yo Medical Univ.···S58
1-7-4 Qu	ıantitative eval	uation of cont	trast-enhance	ed MRI find	ings in droppe	ed head syndrom	

1-7-5			on surgery in patients with	
1-7-6	Disequilib	rium of neurotrans	mitters in patients with drop	, Dept. of Orthop. Surg., Tokyo Medical Univ.··S59 pped head syndrome: Examination of blood · Haruki Funao, et al., Dept. of Orthop. Surg., onal Univ. of Health and Welfare Narita Hosp.···S59
9:15	~ 10:15	Free papers 8	Lumbar spine 1	Moderators T. Iida, T. Kitagawa
1-7-7 1-7-8	cephala	d to the chevron ··	Tomo	pression from the ligamentum flavum owaki Nakagawa, et al., Sendai Orthop. HospS60 d in-situ forming gel after discectomy for
	lumbar i	ntervertebral disc l	herniation ······ <i>Kats</i> Faculty of Medicine and 0	suhisa Yamada, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Hokkaido UnivS60
1-7-9	strengtl	h in lumbar lateral i	interbody fusions: A cadave	nalitative evaluations based on extraction ric study rg., Graduate School of Medicine, Kyoto UnivS61
1-7-10				rosis in lumbar interbody fusion: Dept. of Orthop. Surg., Otaru General Hosp.···S61
1-7-11	Epidemio	ology and its adoles	cent treatment history of lu	umbar spondylolysis in Japanese professional tt. of Orthop. Surg., Fukushima Medical Univ.···S62
1-7-12	Analysis	of 1667 lumbar spo	ndylolysis using a novel thr ·····Satoru Egawa, e	et al., Dept. of Orthop. and Trauma Research, d Dental Sciences, Institute of Science Tokyo…S62
10:30) ~ 11 : 30	Invited lecture	e 1 (English)	Moderator H. Terai
1-7-IL1-	1 Devel	opment of bone-tar	geted antibiotics for chronic	c osteomyelitis
1-7-IL1-	·····2 Recen	Eda t trends in the trea	ward M. Schwarz, Dept. of C tment of spinal infections	Orthop., Univ. Rochester, Rochester, NY, USA···S63 gashima, Dept. of Orthop. Surg., Tottori Univ.···S63
	·····2 Recen	Eda t trends in the trea	ward M. Schwarz, Dept. of C tment of spinal infections Hideki Nag	Orthop., Univ. Rochester, Rochester, NY, USA···S63
	2 Recen 2 Recen 3 ~ 16 : 00 1 Robot	t trends in the trea Invited lecture ic assistant surgery	ward M. Schwarz, Dept. of Comment of spinal infections	Orthop., Univ. Rochester, Rochester, NY, USA…S63 gashima, Dept. of Orthop. Surg., Tottori UnivS63 Moderator H. Ozawa
15:00	2 Recen 2 - 16:00 1 Robot 2 Evolution	Invited lecture ic assistant surgery Yong H	ward M. Schwarz, Dept. of Comment of spinal infections	Orthop., Univ. Rochester, Rochester, NY, USA…S63 gashima, Dept. of Orthop. Surg., Tottori UnivS63 Moderator H. Ozawa binal deformity
15:00 1-7-IL2-	2 Recen 2 Recen 3 ~ 16:00 1 Robot 2 Evolut com	Invited lecture ic assistant surgery ····································	ward M. Schwarz, Dept. of Comment of spinal infections	Orthop., Univ. Rochester, Rochester, NY, USA…S63 gashima, Dept. of Orthop. Surg., Tottori UnivS63 Moderator H. Ozawa binal deformity Surg., Beijing Chaoyang Hosp., Beijing, China…S64
15:00 1-7-IL2- 1-7-IL2-	2 Recen 2 Recen 3 ~ 16:00 1 Robot 2 Evolut com	Invited lecture ic assistant surgery ····································	ward M. Schwarz, Dept. of Ottment of spinal infections	Orthop., Univ. Rochester, Rochester, NY, USA…S63 gashima, Dept. of Orthop. Surg., Tottori UnivS63 Moderator H. Ozawa binal deformity Surg., Beijing Chaoyang Hosp., Beijing, China…S64 inal deformities: Efforts to reduce
15:00 1-7-IL2- 1-7-IL2-	2 Recen 2 Recen 1 Robot 2 Evolut 5 ~ 17 : 15 1 Uniqu dece	Invited lecture ic assistant surgery	ward M. Schwarz, Dept. of Comment of spinal infections	Orthop., Univ. Rochester, Rochester, NY, USA···S63 gashima, Dept. of Orthop. Surg., Tottori Univ.···S63 Moderator H. Ozawa binal deformity Surg., Beijing Chaoyang Hosp., Beijing, China···S64 inal deformities: Efforts to reduce b. Surg., Kansai Medical Univ. Medical Center···S64
15:00 1-7-IL2- 1-7-IL2-	2 Recen 2 Recen 1 Robot 2 Evolut com 5 ~ 17 : 15 1 Uniqu decc 2 Challe	Invited lecture ic assistant surgery	ward M. Schwarz, Dept. of Ottment of spinal infections	Orthop., Univ. Rochester, Rochester, NY, USA···S63 gashima, Dept. of Orthop. Surg., Tottori Univ.···S63 Moderator H. Ozawa binal deformity Surg., Beijing Chaoyang Hosp., Beijing, China···S64 inal deformities: Efforts to reduce b. Surg., Kansai Medical Univ. Medical Center···S64 Moderator M. Koda to prevention of kyphosis after posterior thop. Surg., National Defense Medical College···S65
15:00 1-7-IL2- 1-7-IL2- 16:15 1-7-IL3-	2 Recen 2 Recen 1 Robot 2 Evolut com 5 ~ 17 : 15 1 Uniqu decc 2 Challe	Invited lecture ic assistant surgery	ward M. Schwarz, Dept. of Ottment of spinal infections	Moderator H. Ozawa Moderator H. Ozawa Sinal deformity Surg., Beijing Chaoyang Hosp., Beijing, China···S64 inal deformities: Efforts to reduce Surg., Kansai Medical Univ. Medical Center···S64 Moderator M. Koda to prevention of kyphosis after posterior hop. Surg., National Defense Medical College···S65 against the tide M. MacDowall, Dept. Surg. Sci., Uppsala Univ.,
15:00 1-7-IL2- 1-7-IL2- 16:15 1-7-IL3-	2 Recen 2 Recen 1 Robot 2 Evolut com 5 ~ 17 : 15 1 Unique decc 2 Challe 1 The tr 2 Treatr	Invited lecture ic assistant surgery	ward M. Schwarz, Dept. of Ottment of spinal infections	Moderator M. Koda Moderator M. Koda Surg., Kansai Medical Univ. Medical Center S64 Moderator M. Koda Moderator M. Koda

1st Day May 22 Room 8 (TIF, G701)

8:00 ~	~ 9:00	Free papers 9	Sports: Miscellaneus	Moderators	K. Sugimoto, M. Hangai
1-8-1	in school-a	age children: KIl	5(OH) vitamin D concentration D locomo study asatoshi Teraguchi, et al., Dept.		
1-8-2	The impact	of sport-specific	movements on the distribution Saori Soeda, et al., Dept. of	n of type 1 Modic si of Orthop., Institute	ignal changes
1-8-3			ange of motion in elementary s	chool baseball play	rers
1-8-4	Relationship ultrasound	Dept. of Medi between should findings in high	cine of Sensory and Motor Org der joint range of motion and p n school pitchers	gans, Faculty of Me itching elbow torqu	dicine, Univ. of Miyazaki…S68 ue or dominant elbow
1-8-5	Difference	of graft length in Anatomical study		on of the glenohun , Dept. of Musculos	neral joint due to arm skeletal Sports Medicine,
1-8-6		nificance of poste	erior talofibular ligament injury ······ <i>Tomoyuki Nakasa, et al</i>	in chronic lateral and in the control of the control of Artificial of Artificial of the control	ankle instability
9:15 ~	~ 10:15	Free papers 1	0 Hip: ONFH	Moderator	rs M. Nozawa, Y. Maeda
1-8-7	Factors aff	fecting arthropat	thic changes after anterior rota	···Hikaru Ito, et al	., Dept. of Orthop. Surg.,
1-8-8			classification and ARCO classifi a, et al., Dept. of Orthop. Surg.	ication in osteonecr	
1-8-9			th factor in osteonecrosis of th	Yusuke Ayabe, et al.	
1-8-10			re decompression for young pa ························Yusuke Osa Musculoskeletal and Cutane	atients with asympt awa, et al., Dept. of ous Surg., Program	Orthop./Rheumatology,
1-8-11	multicen	ter sentinel mon	oid and non-alcohol associated itoring system	osteonecrosis of th	ne femoral head in a
1-8-12	Retrospect osteonec	tive study on ace rosis of the femo	al., Dept. of Orthop. Surg., Yar stabular bone morphology and oral head , et al., Dept. of Orthop. Surg.,	in patients with typ	e C1 and C2
10:30	~ 11:30	Invited lectu	re 5 (English)	I	Moderator N. Nakamura
1-8-IL5-1			for cartilage and meniscus inju	<i>eta Kon,</i> IRCCS Hu	
1-8-IL5-2			drocyte implantation for cartila	age defects of the k	nanitas Univ., Milan, Italy…S73 nee joint in Japan: f Orthop., Shimane UnivS73

12:00	~ 13:10	Luncheon semin	nar 6		Moderator Y. Inagaki
1-8-LS6-1 What is the problem with intra-articular hemorrhage?: Road to build a hemophilic arthropathy outpatient clinic ···································					
15:00	~ 16:00	Invited lecture ((English)		Moderator O. Soejima
1-8-IL6-1 1-8-IL6-2	Advance	ed arthroscopic rep	· Jeffrey Yao, Dept. of O air techniques for TFC	C lesions	state of the art niv., Palo Alto, CA, USA···S75 v. of Health and Welfare···S75
16:15	~ 17 : 15	Free papers 11	Hip: Osteotomy	Moderators	Y. Yasunaga, N. Shima
1-8-13 1-8-14 1-8-15 1-8-16 1-8-17	Sex differer rotational Does transp	nces in hip range of acetabular osteoton position osteotomy collow-up outcome of arthritis ne dynamic joint income of the collow-up outcome outcome outcome of the collow-up outcome outco	iod of 20-years	ionship to bone morpholinahashi, et al., Dept. of Cataneous Surg., Program Graduate School of It the natural history of hanaka, et al., Dept. of Ocetabular osteotomy for lawa, et al., Kansai Univ. Frative period following tr	hop. Surg., Showa Univ.···S76 logy after eccentric Orthop./Rheumatology, in Integrated Medicine, Medicine, Nagoya Univ.···S76 ip dysplasia? rthop. Surg., Saga Univ.···S77 nip dysplasia Health Welfare Sciences···S77
1-8-18			my ····· Takeshi	term patient-reported or Shoji, Dept. of Artificial comedical and Health Sci	
17:30	~ 18:30	Invited lecture 7	(English)		Moderator Y. Uchio
1–8–IL7–1 Recent development in knee joint biomechanics research and clinical implications					
			1st Day May 22	Room 9 (TIF, G6	602)
8:00~	9:00 I	Free papers (Engl	ish) 1 Upper limb	Moderator	rs K. Otani, S. Ichihara
	for the idea	al location of rerout	ed biceps tendon Cho, et al., Dept. of Or on of RSA patients: A c	omparison of clinician-ba	un Hosp., Busan, Korea…S80

1-9-3	Comparison of short-term clinical outcomes of RSA multi-center research database	A by global lateralization classification using a
1-9-4	Patient satisfaction and donor site morbidity after a fascia lata autograft for irreparable rotator cuff te	arthroscopic superior capsule reconstruction using ars
1-9-5	Ulnar collateral ligament (UCL) shoelace repair wi reconstruction for elbow UCL injury ······	······ Soshi Uchida, et al., Dept. of Orthop. Surg.,
1-9-6	Strategy for early detecting rapid radiographic pro-	he Univ. of Occupational and Environmental Health…S82 gression-importance of MRI bone edema and <i>Katayama</i> , Katayama Orthop. Rheumatology Clinic…S82
	10:15 Free papers (English) 2	Moderators I. Yoshimura, T. Watanabe
Foot	& ankle/sports	
1-9-7	Anterior cruciate ligament reconstruction with lar graft maturation based on post-operative 2-year	MRI analysis
1-9-8		owler Kennedy Sport Medicine Clinic, London, UK…S83
		than Liang, et al., Yong Loo Lin School of Medicine, National Univ. of Singapore, Singapore, Singapore ··· S83
1-9-9	Clinical outcomes of hindfoot endoscopic surgery	for posterior ankle impingement syndrome with
1-9-10	Short-term clinical and radiological outcomes of r	_
1-9-11	Evaluation of Hounsfield unit values of the health	
1-9-12	Efficiency of focused extracorporeal shock wave	
	metatarsal stress fractures in high-level athletes	et al., Dept. of Orthop. Surg., Hyogo Medical Univ.···S85
10:30	$\sim 11:30$ Invited lecture 8 (English)	Moderator T. Muneta
1-9-IL8-1 1-9-IL8-2	re-injury risk · · · · · · · · · · · · · · · · · · ·	bster, La Trobe Univ. Melbourne, Victoria, Australia…S86 reconstruction: A multidisciplinary approach · Harukazu Tohyama, Div. of Rehabilitation Science,
10 . 00		ciences, Faculty of Health Sciences, Hokkaido UnivS86
	~ 13:10 Luncheon seminar 7	Moderator K. Tanaka
1-9-LS7		care? From basic research to clinical practice Science of Functional Recovery and Reconstruction, istry, and Pharmaceutical Sciences, Okayama UnivS87
15:00	$\sim 16:00$ Invited lecture 9 (English)	Moderator K. Horiuchi
1-9-IL9-1		
1-9-IL9-2	New technologies in bone and soft tissue tume Science of Functional	MSK, Taipei Veterans General Hosp., Taipei, Taiwan…S88 ors Toshifumi Ozaki, Dept. of Orthop. Surg., Recovery and Reconstruction, Faculty of Medicine, istry, and Pharmaceutical Sciences, Okayama UnivS88

16:15	~ 17:15 Free papers 12	Moderators S. Shimose, T. Torigoe				
Tum	nor: Soft tissue sarcoma 1					
1-9-13	Clinical outcome in soft tissue sarcoma patients with metastasectomy/radiofrequency ablation: Tokai mu	usculoskeletal oncology consortium study Vakamura, et al., Dept. of Musculoskeletal Surg.,				
1-9-14	Dept. of Multimodality Therapy for Cancer, Mie Univ. Graduate School of Medicine…S89 Hematoma formation may be an independent poor prognostic factor for soft tissue sarcoma					
1-9-15	Prognostic factors for malignant fibrous histiocytoma	a/undifferentiated pleomorphic sarcoma ······ <i>Shinji Miwa, et al.</i> , Dept. of Orthop. Surg.,				
1-9-16	Graduate School of Medical Sciences, Kanazawa Univ.···Se Lymph node metastasis in myxofibrosarcoma: A single-center retrospective study of 294 cases					
1-9-17	•					
1-9-18	Exploration of genomic profiling and prognostic scor	ring in invasive soft tissue sarcoma				
		<i>e Ariga, et al.</i> , Dept. of Orthop. and Spinal Surg., I and Dental Sciences, Institute of Science Tokyo…S91				
	~ 18:30 Free papers 13 nor: Soft tissue sarcoma 2	Moderators Y. Kitagawa, E. Osaka				
1-9-19	Epidemiological survey of alveolar soft part sarcoma	y Data from the goff tiggue tumor registry				
	of Japan ······ Akihito Nagano	o, et al., Dept. of Orthop. Surg., Gifu Univ. HospS92				
1-9-20	Establishment of DNA methylation inhibitor-based th	herapy for synovial sarcoma <i>[asegawa, et al.,</i> Dept. of Orthop., Juntendo UnivS92				
1-9-21	Proteogenomic analysis revealed prognosis biomark					
1 0 00		Surg., Graduate School of Medicine, Chiba Univ.···S93				
1-9-22	Comprehensive approach to cancer genomic profiling					
		covery and Reconstruction, Faculty of Medicine,				
1 0 00		ry, and Pharmaceutical Sciences, Okayama UnivS93				
1-9-23	1-9-23 Clinical significance of comprehensive genomic profiling tests for bone and soft tissue tumors based on the C-CAT data					
1-9-24						
1-9-24		··· Yuta Taniguchi, et al., Dept. of Orthop. Surg.,				
		nate School of Medical Sciences, Kanazawa Univ.···S94				
	1st Day May 22	Room 10 (TIF, G610)				
	1st Day May 22	Room 10 (TIF, G610)				
8:00	∼ 9:00 Free papers (English) 3 Hip joint	Moderators M. Matsubara, A. Oya				
1-10-1	Efficacy of RCDBG for the treatment of ARCO 2 stag	ge ONFH a retrospective case-control study onghui Hosp., Xi'An Jiaotong Univ., Xi'An, China…S95				
1-10-2	Return to work status of patients under 65 with ONF					

1-10-3 Repair critical osteochondral defects on the femoral head using autologous cost	
1-10-4 Patient and hospitalisation predictors of discharge destination for femoral neck: Singapore: A retrospective study	
1–10–5 Intertrochanteric fracture with severe extramedullary pattern in sagittal plain w direct reduction · · · · · · · Etsuo Shoda, et al., Dept. of Orthop. Surg., Nishinor	hich require
1–10–6 Teriparatide does not have beneficial effects on bone healing in complete atypic	al femur fractures ept. of Orthop. Surg.,
	R. Takemasa, S. Ebata
Spine & joint disease	
1–10–7 Efficacy of epidural steroid in controlling pain after unilateral biportal endoscos single level lumbar disc herniation: Randomized-controlled trial	
1-10-8 The effects and mechanisms of the local high-level uric acid metabolic microer	
neuron after traumatic spinal cord injury	
Zixian Chen, et al., Dept. of Orthop. Surg., Zhongshan Hosp., Fudan U	
1-10-9 The patients' quality of life and outcome after surgical treatment for spondylod using PROMs on 904 Scandinavian patients · · · · · · · · · Ryo Fujita, et al., D	
Faculty of Medicine and Graduate School of Medi	
1-10-10 Long term outcome of surgical management for vertebral hemangioma presen	
with myelopathy ···········Pankaj K. Singh, et al., Dept. of Neurosurg., AIII	
1–10–11 Milk antibody and prebiotic combination improves dysbiosis resulting to ameli rheumatoid arthritis through endotoxin masking and endotoxin tolerance	oration of
	heumatology Clinic···S100
1-10-12 Factor structure of the WHOQOL-BREF in osteoarthritis patients	
Witten/Herdecke Univ	v., Witten, Germany…S100
$10:30 \sim 11:30$ Invited lecture 10 (English)	Moderator S. Ohtori
1-10-IL10-1 Spinal cord neural stem cells for spinal cord injury	
Veterans Administration Medical Center	
1–10–IL10–2 Basic research aimed at elucidating the mechanism of glial scar formation cord injury ····································	
Clinical Medicine, Graduate School of Medical Science	
$12:00 \sim 13:10$ Luncheon seminar 8 Mod	erator Y. Nakashima
1–10–LS8 Key points in the management of joint pain in elderly patients: Rethinking and	placeies from the
perspective of risk and benefit	
Clinical Medicine, Graduate School of Medical Scient	
$15:00 \sim 16:00$ Invited lecture 11 (English) Mo	

······ Brian J. Cole, et al., Dept. of Orthop. Surg., Rush Univ. Med. Center, Chicago, IL, USA···S103

1-10-IL11-2 Medial meniscus tears in early knee osteoarthritis: Prevalence and morphologyIchiro Sekiya, et al., Center for Stem Cell and Regenerative Medicine, Institute of Science Tokyo…S103 $16:15 \sim 17:15$ Instructional lecture 12 Moderator M. Saito 1-10-EL12 Regulatory mechanism of bone remodeling $17:30 \sim 18:30$ Free papers (English) 5 Moderators K. Matsumoto, T. Ohnishi Basic research/miscellaneous 1-10-13 Application of ROS-scavenging composite hydrogel coating in magnesium-based internal fixation for osteoporotic fractures 1-10-14 Gelatin-based cryogels seeded with bone mesenchymal stem cell exosomes for enhancing bone regeneration ··· Daniel Yang, et al., Lab. of Biomed. Eng., I-Shou Univ., Kaohsiung, Taiwan ··· S105 1-10-15 Naringin mediated silver nanoparticles attenuate rheumatoid arthritis in mice by modulation of autophagy and PI3K/AKT/mTOR signaling pathwayEkta Yadav, Shalom Institute of Health and Allied Sciences, Sam Higginbottom Univ. of Agriculture Technology and Sciences, Allahabad, India...S106 1-10-16 Changes in exercise habits and associated factors during COVID-19 pandemic in patients after THA in Japan ····· Takahiro Inoue, et al., Dept. of Orthop. Surg., Clinical Medicine, Graduate School of Medical Sciences, Kyushu Univ.···S106 1-10-17 A correlation study of bone qualities and spine flexibilities in severe adolescent idiopathic scoliosis The Chinese Univ. of Hong Kong, Hong Kong...S107 1-10-18 Automated SSM landmarking with region-refinement improves landmarking accuracy ······Marco T. Schneider, et al., Formus Labs, Auckland, New Zealand···S107 (JP tower, Hall 1+2+3) 1st Day May 22 Room JP-A $8:00 \sim 9:00$ Free papers 14 Proximal femoral fracture Moderators A. Harada, S. Jingushi 1-A-1Analysis of risk factors for failure in non-displaced femoral neck fractures using multivariate analysis ··· Kazuki Hirose, et al., Dept. of Orthop. Surg., Kochi Health Sciences Center···S108 1-A-2Correlation between bone mineral density and CT value and bone mineral density estimation model in patients with proximal femur fractures Juji Ito, et al., Dept. of Orthop. Surg., Nihonkai Hosp.... S108 1-A-3 Comparison of taper wedge versus fit & fill for periprosthetic fracture risk after hemiarthroplasty for femoral neck fractures ······Makoto Kitade, Dept. of Orthop. and Rehabilitation Medicine, Faculty of Medical Sciences, Univ. of Fukui···S109 1-A-4Risk factors for cut-out of internal fixation in proximal femoral fractures 1-A-5Clinical outcomes of SL nails for femoral trochanteric fractures: A report on treatment results with and without lateral cortical nothing 1-A-6Examination of achievement of reduction for intertrochanteric fracture (AO 31A3) in cephalomedullary nail ······ Teruhiko Ando, et al., Dept. of Orthop. Surg., Science of Functional Recovery and Reconstruction, Faculty of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama Univ.··S110

9:15 ~ Osteo		Free papers 15 Diagnosis 1		Moderators	N. Yamamoto, C. Minamitani
1-A-7				····Hotaka Ishizu,	ive for osteoporosis et al., Dept. of Orthop. Surg., of Medicine, Hokkaido UnivS111
1-A-8			liver to the spine: Fatty l	iver in young leadi ···· Yoshinao Koike,	ng to reduced vertebral bone et al., Dept. of Orthop. Surg., of Medicine, Hokkaido UnivS111
1-A-9			l femur and vertebral fra	acture risk by osteo ····Satoshi Yamate,	oporosis screening methods: et al., Dept. of Orthop. Surg., dical Sciences, Kyushu Univ.···S112
1-A-10			oftware to support quant akawa, et al., Dept. of Or		vertebral fracture kei Univ. School of Medicine…S112
1-A-11	(E-JOS	femoral study) ··· 7		ept. of Orthop. Surg	g., KKR Hamanomachi Hosp.···S113
1-A-12	adoleso	cence on bone mine	ment of the effects of hig ral density 50 years late	r	
10:30	~ 11 : 30				o. Surg., Tohto Bunkyo Hosp.···S113 ttors H. Samejima, S. Tanaka
				-	
1-A-13		Koji Nakajima, et al		, The Univ. of Tok	yo Hosp., The Univ. of Tokyo…S114
1-A-14	to oste	oporosis screening			ages: A potential alternative
1-A-15	Develop	ment of a screening	tool for detecting osteo	penia using OSTA	o. Surg., Otaru General HospS114 and FRAX nanami Spine and Joint HospS115
1-A-16	The use	fulness of bone den	sity assessment with dua	al-energy CT: A co	
1-A-17	Factors	associated with low	bone density in school-	age children in a la	
1-A-18	More th		roximal femur fractures		
	•••••	······Hay	ato Tatsumi, et al., Dept	. of Orthop. Surg.,	Hiroshima Prefectural Hosp.···S116
12:00	~ 13:10	Luncheon sen	ninar 9		Moderator S. Imai
1-A-LS9			plant used in arthroscop ······Kotaro Yamakao		ir o. Surg., Fukui General HospS117
15:00	~ 16:00	Instructional	lecture 13		Moderator K. Takahashi
1-A-EL13	aspe	cts of operating a co	adaver lab <i>iaki Shichinohe,</i> Hokkaid	do Univ. Hosp. Cen	human cadavers and key ter for Education Research & , Gastroenterological Surg. II…S117

	~ 17:35 Symposium 8 vadvances in orthopaedic trauma su	Moderators A. Mogami, E. Tsuda argery have changed rehabilitation treatment?
1-A-S8-1		
1-A-S8-2		ga, Dept. of Orthop. Surg., Japanese Red Cross Saitama HospS118
	····· Takenori Uehara,	et al., Dept. of Orthop. Surg., NHO Okayama Medical Center…S118
1-A-S8-3		ic fractures and the rehabilitation therapy Dept. of Orthop. Surg., Hyogo Prefectural Nishinomiya HospS119
1-A-S8-4	Surgical treatment and rehabilitation	n for nonunion and malunion
1-A-S8-5		ept. of Emergency and Critical Care Med., Jichi Medical UnivS119 bilitation for severe upper extremity trauma
	·····Kenji Kau	vamura, et al., Susumu Tamai Memorial Limb Trauma Center, Nara Medical Univ. HospS120
17:40	~ 18:30 Free papers 17	
	~ 18:30 Free papers 17 cellaneous: Muscle/nerve	Moderators K. Okajima, H. Yamada
1-A-19		mb associates standing whole-body imbalance
		keletal and Cutaneous Surg., Program in Integrated Medicine,
1 4 90	01	Graduate School of Medicine, Nagoya Univ.···S121
1-A-20	Quadriceps muscle mass and muscle	quanty and locomotive syndrome Takafumi Mizuno, et al., Dept. of Orthop./Rheumatology,
	Musculosl	keletal and Cutaneous Surg., Program in Integrated Medicine,
1-A-21	A new skeletal muscle index for older	Graduate School of Medicine, Nagoya Univ.···S121 adults with declining gait function: Muscle quality
	····· Yoshihito Sakai, et al., Dept. of C	Orthop. Surg., National Center for Geriatrics and Gerontology…S122
1-A-22		nanced ultrasound imaging for nerve visualization in the
	Parama	Yokohama City Univ. Graduate School of Medicine…S122
1-A-23	Anatomical analysis of the S1 neural for	oramen using 3D CT images t. of Orthop. Surg., Graduate School of Medicine, Chiba UnivS123
	Northika Sazaki, et al., Dep	t. of Of thop. Strig., Graduate School of Medicine, Chiba Oniv. 3123
	1st Day	May 22 Room JP-B (JP tower, Conference Room A)
8:00	~ 9:00 Free papers 18 ACL 1	Moderators S. Horibe, N. Kitamura
1-B-1	Anatomical risk factors for noncontact	
1-B-2		al., Dept. of Orthop. Surg., Okayama Saiseikai General Hosp.···S124 side of the knee in anterior cruciate ligament
1111	injured patients ·····	······ Sora Koiwa, JR Tokyo General Hosp.···S124
1-B-3		stance cross sectional area and femoral intercondylar chishima, Dept. of Orthop. Surg., Keijinnkai Shiroyama Hosp.···S125
1-B-4		mstring tendon and quadriceps tendon following anterior
	cruciate ligament reconstruction: Ins	
	•••••	······ Naoki Takemoto, et al., Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kanazawa Univ.···S125

1-B-5	joint deg	generation 10-year postoperatively in A		
1-B-6	Relationsl degener	Sports Medicine & Should hip of patient-reported outcomes 10 year ration: WORMS and quantitative MRI		o, CA, USA···S126 nt
	•••••		····· Shotaro Watanabe, et al., Dept. of Ort er Surg., Univ. of California, San Francisco	
9:15	~ 10:15	Free papers 19 ACL 2	Moderators T. Soejima, I	M. Nagashima
1-B-7		lateral complex lesions · · · · · · · · · · · · · · · · · · ·	on knee instability: Focus on meniscal, MC ···· <i>Hiroaki Fukushima, et al.</i> , Dept. of Ort goya City Univ., Graduate School of Medica	hop. Surg.,
1-B-8	residua	al pivot-shift phenomenon after ACL re	al uninjured knee is associated with postop econstruction thop. Surg., Kobe Univ. Graduate School o	
1-B-9	Compa	arison of single and semilunar suture o	ment reconstruction using quadriceps tend cases of Orthop. Surg., Hyogo Rehabilitation Ce	
1-B-10	differe	nt autografts	or cruciate ligament (ACL) reconstruction op. Surg., Graduate School of Medicine, O	
1-B-11			injury following anterior cruciate ligament a Tsujii, et al., Dept. of Sports Medical Bio Graduate School of Medicine, O	mechanics,
1-B-12	cruciate	e ligament reconstruction	outcomes of medial meniscus repair durin sawa, et al., Dept. of Orthop. Surg., Zensh	
10:30	~ 11:30	Free papers 20 Sports: Knee	Moderators Y.	Arai, H. Aoki
1-B-13			ing indocyanine green (ICG) fluorescence ura, Dept. of Orthop. Surg., Tokorozawa C	
1-B-14	in the 1	midbody of meniscus	r augmentation (CFA) in suture repair for op. Surg., Graduate School of Medicine, O	
1-B-15		for re-injury after inside-out meniscalAkira Katsumata	repair for vertical meniscal tears , et al., Dept. of Orthop. Surg., Obihiro Ky	okai HospS131
1-B-16			one morphology and accessory ossicles in ept. of Orthop. Surg., Osaka Saiseikai Nak	
1-B-17	•••••		aeyama, et al., Dept. of Orthop. Surg., Fuk	
1-B-18	Focusi	ng on the level of sports activities	ial compartment osteoarthritis of the knee vi, et al., Dept. of Orthop. Surg., Toho Univ	
12:00	~ 13:10	Luncheon seminar 10	Moderator	H. Ishibashi
1-B-LS10	-		2023 by the Ministry of Health, Labour and mu Sawada, Faculty of Sport Sciences, Wa	

15:00	~ 16:00	Instructiona	l lecture 14			M	loderator	E. Tsuda
1-B-EL14	verific	ation to data-dri	ven research	with RWD,	tem biomechanics /AI <i>Jakata</i> , Medicine f ience, Graduate S	or Sports and	Performin	ng Arts,
16:15	~ 17:15	Free papers	(English) 6	Knee	Moder	rators S. Fu	kushima,	G. Mitani
1-B-19	concomi	tant tibial tuber	cle transfer i	n patients wi Chuan Weng	ruction versus MI ith patellar instabi , et al., Dept. of M Veterans General	lity edical Educat	ion and Res	
1-B-20				abnormal n	eovessels for pate	llar tendinopa	thy is safe:	
1-B-21					III valgus knee ex of Orthop. Surg.,			
1-B-22	_			_	iiscus extrusion: N Dept. of Orthop. S			ıl UnivS135
1-B-23	-		y		ional positioning o ····· <i>Chuan Y</i> Hosp. of Guizhou	e, et al., Dept	of Orthop	. Surg.,
1-B-24		• •			O in treatment of	e, et al., Dept	of Orthop	
17:30	~ 18:30	Free papers	(English) 7	THA & T	KA Mode	erators H. I	Miyahara,	T. Yasuda
1-B-25	developn	nental dysplasia	of the hip (I	DDH)	hopaedic cases: A ider, et al., Formus			ealand…S137
1-B-26	Automated	d hip-spine asse	ssments in u	nder a secoi				
1-B-27	The trend	of revision total	hip arthropl	lasties in su	per-aging area in land., Dept. of Ortho	ast eighteen y	ears	
1-B-28	Evaluating reality na	g tibial compone avigation systen	nt rotational n with smart	alignment a glasses	of Orthop. Surg., S	hroplasty usin	ng augment	ted
1-B-29	during ro	obotic assisted t	otal knee art	hroplasty	ogy in predicting t			
1-B-30	Factors af	fecting return to	work status	after total j	thop. Surg., Critic pint arthroplasty: longhui Hosp., Xi'	A prospective	cohort stu	dy
			1st Day	May 22	Room JP-C	(JP tower, 0	Conference	Room B)

 $8:00\sim9:00$ Free papers 21 AI: Upper & lower limb Moderators H. Mishima, K. Oka

1-C-1 Development of android camera application for automated measurement of hallux valgus angle Ryutaro Takeda, et al., Dept. of Orthop. Surg., The Univ. of Tokyo Hosp., The Univ. of Tokyo Hosp.

1-C-2		on of tendon gliding sounds in carpa	l tunnel syndrome using an artificial Dept. of Orthop. Surg., Kobe Univ. HospS	\$140
1-C-3		similar ultrasound images using AI		,110
			ept. of Musculoskeletal Health Promotion,	
			Pharmaceutical Sciences, Okayama Univ.···S	3141
1-C-4	Deep learning approac	h of position assistance tools using u	ltrasound guide for hip arthroscopy	
			rg., Yokohama City Univ. Medical Center…S	141
1-C-5		ficial intelligence model to automatic		
1 0 0			t al., Dept. of Orthop. Surg., Teikyo Univ S	5142
1-C-6			Japanese guidelines for the treatment of	
	naliux valgus ·····		e Matsuoka, et al., Dept. of Orthop. Surg., uate School of Medicine, Hokkaido UnivS	1149
9:15	~ 10:15 Free pape	ers 22 AI: Miscellaneous	Moderators Y. Aoki, Y. Hagiwar	1
				u
1-C-7			retrieval-augmented generation on the	
	Japanese orthopaed		Sundunts Cabani of Madisina Chiba Univ.	149
1-C-8		etration with a time-series deep learn	Graduate School of Medicine, Chiba UnivS)145
1 0 0	sensory information		ing moder using force	
			raduate School of Medicine, Osaka UnivS	143
1-C-9		ntelligence to estimate sarcopenia fr		
			raduate School of Medicine, Osaka UnivS	3144
1-C-10	Locomotive syndrome	e screening using single-camera gait	video analysis with deep learning	
		····Junichi Kushioka, et al., Spine Ce	nter, Shonan Fujisawa Tokushukai HospS	3144
1-C-11		calibrated, although its diagnostic pe		
			t al., Dept. of Orthop. Surg., Teikyo UnivS	145
1-C-12		nostic tool using artificial intelligence		
			agi, et al., Dept. of Musculoskeletal Surg.,	1115
	Дері.	of Multimodality Therapy for Cance.	r, Mie Univ. Graduate School of Medicine…S	145
10:30) ~ 11 : 30 Free pap	pers 23 AI: Lumbar spine	Moderators K. Nakanishi, S. Orit	a
1-C-13	Deep learning to pred	lict hip disease using lumbar spine X	-rays	
	•••••	Masa	ashi Tsujino, et al., Dept. of Orthop. Surg.,	
		Osaka Metrop	olitan Univ. Graduate School of Medicine…S	5146
1-C-14		is screening using single-camera gai		
			nter, Shonan Fujisawa Tokushukai HospS	5146
1-C-15			n images from the plain CT of lumbar	
	spine using generat		Soya Miura, et al., Dept. of Orthop. Surg.,	
1 0 10	A 1 '41 C		uate School of Medicine, Hokkaido Univ.···S	5147
1-C-16	_	ting the imitated myelography CT fro	om the plain C1 of the lumbar spine t al., Dept. of Orthop. Surg., Eniwa HospS	117
1-C-17		detection of lumbar spinal canal sten)147
1 C 17			taka Suzuki, et al., Dept. of Orthop. Surg.,	
	networks, multidasi		uate School of Medicine, Hokkaido UnivS	3148
1-C-18	A new classification o	f intervertebral disc degeneration us		- 10
			taka Suzuki, et al., Dept. of Orthop. Surg.,	
			uate School of Medicine, Hokkaido Univ.···S	3148

12:00	~ 13:10	Luncheon semin	nar 11		Moderator	R. Kuroda
1-C-LS11-	knee	osteoarthritis · · · ·	erience of novel cooling rtificial intelligence Yoko	··Masami Tokunaga	, Fukuoka Orthor Musculoskeletal	Science,
15:00 -	~ 16:00	Instructional le	cture 15		Moderator	R. Osada
1-C-EL15			s of upper extremity: Li ept. of Functional Joint Institute of New In			- ·
16:15	~ 17 : 15	Free papers 24	Rotator cuff tear 1	Moderators	H. Hashiguchi	, N. Ochiai
1-C-19	·····Ryo	suke Miyamoto, et a	r cuff repair with G-CSF	g., Gunma Univ. Grad		ledicine…S151
1-C-20 1-C-21	Postoperat	tive outcomes of rot	on pain and motion reco	o, et al., Dept. of Orth A reinforcement on t	nop. Surg., Kitasa he footprint	
1-C-22	The effect	of bioinductive coll	ke Kawasaki, et al., Dep agen implant on tendon Yuji Yamaguchi, et al.,	thickness after arthr	oscopic rotator	
1-C-23			agen implant on arthros			
1-C-24	Tendon stu	ump changes as a ri	sk factor for structuralJun Kawamata, et	failure of arthroscopi	c rotator cuff repa	air
17:30	~ 18 : 30	Free papers 25	Rotator cuff tear 2	Moderator	rs Y. Shibata, 7	Γ. Takizawa
1-C-25	=		s impacts retear after ar al., Dept. of Orthop. Sur	=	=	=
1-C-26	Risk factor	s and clinical outco	mes of osteoarthritis af	ter arthroscopic rotat ··· Yohei Harada, et a	tor cuff repair l., Dept. of Ortho	p. Surg.,
1-C-27		term outcomes of re	otator cuff repair and re <i>Cakahiro Mita, et al</i> ., De	construction using th	ne surface	
1-C-28	Study of re	e-tear rates in ARCR	with muscle advancemYusuke Mori,	ent based on Stump	classification	
1-C-29	Compariso	on of triple row tech	nique and suture bridge n ······Koji Akimoto, et	e technique in arthro	scopic rotator cuf	f repair
1-C-30			opic partial rotator cuff t al., Dept. of Orthop. So	•		
			2nd Day May 23	Room 1 (TIF,	Hall A)	
8:00~	9:20	Symposium 9		Moder	ators T. Aizawa	a, T. Yoshii

2-1-S9-1 Evidence of distribution of ossified lesions in OPLL patients and introduction of the novel anterior decompression using floating method ··· Takashi Hirai, et al., Dept. of Orthop. and Spinal Surg.,

Graduate School of Medical and Dental Sciences, Institute of Science Tokyo···S157

New strategies for treating ossification of the spinal ligaments

2-1-S9-2	The relationship between visceral fat and ossification of the posterior longitudi (OPLL): A new perspective on obesity treatment interventions	
	Tsutomu Endo, et al., Dep	
2-1-S9-3	Faculty of Medicine and Graduate School of Medicine Surgical strategy for ossification of the posterior longitudinal ligament of cervi	cal spine
0.1.00.4		
2-1-S9-4	Surgical treatment strategy for ossification of spinal ligament in the thoracic sp	
	Musculoskeletal and Cutaneous Surg., Program in Ir	
2-1-S9-5	Transcranial motor-evoked potential for preventing neurological deficit during	
	posterior longitudinal ligament surgery	School of Medicine…S159
9:25~1	10:45 Symposium 10 Moderators M	. Yamazaki, S. Okada
Curren	ent status and challenges in regenerative treatments for spinal cord injury	V
2-1-S10-1		
2-1-S10-2		p. Surg., Keio Univ.···S160
2-1-S10-3		poro Medical Univ.···S160
2-1-310-3	Clinical and basic research into the pathology of spinal cord injury	ot. of Orthop. Surg.,
	Clinical Medicine, Graduate School of Medical Scient	nces, Kyushu Univ.···S161
2-1-S10-4	Development of a novel neuroprotection drug for spinal cord injury through secondary injury	
	Faculty of Medicine and Graduate School of Medici	
2-1-S10-5	Functional regeneration therapy using hybrid assistive limb for patients with and lesions ··················Masashi Yamazaki, et al., Dept. of Orthop. Surg	
11:00~		lerator N. Kawahara
		erator N. Kawanara
2-1-EL16	History of spinal instrumentation surgery	ido Medical Center···S163
12:30~	~ 13:40 Luncheon seminar 12 M	oderator H. Iwasaki
2-1-LS12-1	The innovation of spinal treatment through advanced imaging technology: To postoperative complications with AI and ultrasound fusion	
	Yokohama City Univ. Graduate S	
2-1-LS12-2	2 Revolutionizing cervical spine care through ultrasound innovation: From co	nservative
	treatment to surgery ········· Satoshi Takada, Dept. of Orthop. Surg., Dol	kkyo Medical Univ.···S164
13:55~		s T. Kotani, H. Sudo
The ro	ole of AI (artificial intelligence) in the diagnosis and treatment of scoliosi	
2-1-S11-1	posterior correction and fusion surgery for scoliosis	
9_1_011_0		
2-1-S11-2	Machine learning algorithms for predicting future curve in adolescent idiopa scoliosis patients	unc
	····· Shuhei Ohyama, et al., Dept. of Orthop. Surg., Graduate School of Me	dicine, Chiba UnivS165

2-1-S11-3	Automatic measurement of spinal parartificial intelligence	•	•	<u> </u>			
2-1-S11-4	··· Takahito Fujimori, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Osaka Univ.···S166 An algorithm for using deep learning convolutional neural networks with three-dimensional depth sensor imaging in scoliosis detection						
2-1-S11-5	Development of prediction method for the shoulder balance after scoliosis surgery using artificial neural network						
2-1-S11-6	Application of AI-based pose estimat challenges and future prospects	ion in AIS patients: Curr	ent approaches to Goto, et al., Dept	technical			
15: 20 ~ The late	16:40 Symposium 12 est in minimally invasive endoscop	ic spinal fusion surger		K. Sairyo, K. Ishii			
2-1-S12-1	The concept of ESST and future dire			a. of Orthop. Surg., lfare Narita HospS168			
2-1-S12-2	Comparison of unilateral laminecton	ny for bilateral decompre	ession by four surg	gical methods			
2-1-S12-3	Minimally invasive lumbar interbody	y fusion using the FESS s	system: PETLIF <i>Toichiro Ono,</i> Dept	. of Orthop. Surg.,			
2-1-S12-4	Full endoscopic TF-LIF using KLIF	devices · · · · · · · Masatosh	ni Morimoto, et al.,	chool of Medicine…S169 , Dept. of Orthop., . Graduate School…S169			
2-1-S12-5	Where will ME-ELIF end up? · · · · · ·	Nagasaki Univ. Grad		a. of Orthop. Surg., omedical Sciences…S170			
2-1-S12-6	Find safe intervertebral fusion fromKanji Sa		lop. Surg., Seirei H	łamamatsu HospS170			
16:55~	17:55 Instructional lecture 17		Mod	derator H. Yamada			
2-1-EL17	A message to the next generation of diseases, surgical techniques, and common Yukihiro Matsuyama, D	complications	amamatsu Univ. So	chool of Medicine…S171			
8:00~9		-					
	: 20 Symposium 13 rison of ACL reconstruction techni		moderators 1.	Tajima, A. Nakamae			
2-2-S13-1	Comparison of the ACL reconstruction transtibial technique						
2-2-S13-2		ndle anterior cruciate liga	ament reconstruct	tions			
2-2-S13-3	Anatomic anterior cruciate ligament	reconstruction using the	e outside-in techni	ique			

2-2-S13-4	Anatomical rectangular tunnel ACL reconstru quadriceps tendon-bone graft using transpor	_
		thop. Surg., Sensory and Motor System Medicine,
2-2-S13-5	Remnant-preserving single-bundle ACL augm	Graduate School of Medicine, The Univ. of Tokyo…S173
2-2-313-3		·····Atsuo Nakamae, et al., Dept. of Orthop. Surg.,
2-2-S13-6		Biomedical and Health Sciences, Hiroshima Univ.···S174
2-2-313-0	LEAP (lateral extra-articular procedure): ALL	···· Masahiro Nozaki, et al., Dept. of Orthop. Surg.,
		ra City Univ., Graduate School of Medical Sciences···S174
9:25~	10: 45 Symposium 14	Moderators T. Kamimura, T. Nakagawa
The cu	atting edge of meniscal surgery	
2-2-S14-1	Concomitant meniscus repair with anterior cr	uciate ligament reconstruction
2 2 011 1		Surg., Hirosaki Univ. Graduate School of Medicine…S175
2-2-S14-2	Meniscal repair: Exploring preserving the me	
	degenerative meniscus and future prospect	
		a, Dept. of Orthop. Surg., Tokorozawa Chuo HospS175
2-2-S14-3	Reacquisition of meniscus function by central	
		., Center for Stem Cell and Regenerative Medicine,
	Troomane Szent, et al.	Institute of Science Tokyo…S176
2-2-S14-4	Does the circumferential fiber augmentation t	echnique change the future of meniscal surgery?
		et al., Dept. of Sports Orthop., JCHO Osaka HospS176
2-2-S14-5	Meniscal reconstruction with autologous tend	
2 2 011 0	_	ciences, Osaka Univ. of Health and Sports Science…S177
11:00~		Moderator H. Horiuchi
2-2-EL18	Management of knee ligament injuries: Curren	
		Surg., Hirosaki Univ. Graduate School of Medicine…S178
12:30 ~	Luncheon seminar 13 (English)	Moderator S. Matsuda
2-2-LS13	Clinical outcomes of functional versus mechan	ical alignment in robotic-arm assisted total knee
	arthroplasty: A randomised controlled trial	
	·····Simon W. Yo	ung, Dept. of Orthop. Surg., Univ. of Auckland, NZ···S178
13:55~	15:15 Symposium 15	Moderators K. Okazaki, Y. Niki
Chara	cteristics of robot-assisted and computer na	vigated TKA (total knee arthroplasty)
2-2-S15-1	Features and experience of ROSA for total known	ee arthroplasty
		aka, Dept. of Orthop. Surg. and Joint Surg. Centre…S179
2-2-S15-2	Characteristics and advantages of robotic-arm	
		Kimura, et al., Dept. of Orthop. Surg., Eniwa HospS179
2-2-S15-3	Clinical results and advantages of robotics TK	
	·····Osamu Nishi	ike, Dept. of Orthop. Surg., Kushiro Sanjikai HospS180
2-2-S15-4	Features of DePuy Synthes VELYS robotic-as-	
		······ <i>Hiroshi Takagi, et al.</i> , Dept. of Orthop. Surg.,
		chi Medical Center, Tokyo Women's Medical UnivS180
2-2-S15-5		(AR) smart glass system in total knee arthroplasty
		a, et al., Dept. of Orthop. Surg., Kobe Kaisei Hosp.···S181

15: 20 ~ Consid	16:40 Symposium 16 Moderators T. Majima, M. Ishikawa lering alignment in TKA (total knee arthroplasty)
2-2-S16-1	Mechanical alignment vs. alternative alignment: Is this a modern-day 'witch hunt'?
	······ Takashi Sato, Dept. of Orthop. Surg., Niigata Medical Center···S182
2-2-S16-2	Mechanical alignment method remains gold standard for TKA in 2025
	······Yukihide Minoda, Dept. of Orthop. Surg.,
	Osaka Metropolitan Univ. Graduate School of Medicine…S182
2-2-S16-3	Alignment and soft tissue balance after TKA from the perspective of coronal plane knee kinetics
	······································
2-2-S16-4	Alignment and ligament balance after unrestricted kinematic alignment TKA
2-2-S16-5	Applied simpler physiological alignment in TKA using anatomical shaped implant
	······ Takashi Miyamoto, Ainomiyako Knee Joint Replacement Center···S18
16:55~	17:55 Instructional lecture 19 Moderator H. Miura
2-2-EL19	Early-stage knee osteoarthritis: Present status and perspective
	Tambam Isingina, 2 opa 01 01 atopi, Jantonao Olim Bio
	0. 1 D
	2nd Day May 23 Room 3 (TIF, Hall B7(1))
8:00~9	9:20 Symposium 17 Moderators E. Chosa, S. Otsuki
	le of orthopaedic surgeons in professional sports
1110 101	
2-3-S17-1	Orthopaedic surgeon in professional sports: A professional baseball team
	physician's perspective ····································
2-3-S17-2	The role of a team doctor in a professional basketball team
2-3-S17-3	Who is a good orthopaedic surgeon for professional rugby team?
	····· Sohei Takamori, Dept. of Spo. Med. and Orthop. Surg., Shonan Kamakura General Hosp. ··· S18
2-3-S17-4	Yang yong of team physician
9:25~1	10:45 Symposium 18 Moderators T. Masatomi, T. Mihata
	nent strategies for medial collateral ligament injuries of the elbow in baseball players
2-3-S18-1	Stabilizing mechanism of the elbow joint: Evaluation of elbow valgus stability in
	professional player
	Daisuke Momma, et al., Center for Sports Medicine, Hokkaido Univ. HospS18
2-3-S18-2	Imaging diagnosis of valgus instability of the elbow in baseball players: Elbow joint contact area
2 0 010 2	evaluation by 3DCT······ <i>Kyosuke Numaguchi, et al.</i> , Dept. of Orthop. Surg.,
	Faculty of Medicine and Graduate School of Medicine, Hokkaido UnivS18
2-3-S18-3	Conservative treatment including extracorporeal shock wave therapy and platelet-rich plasma
2 0 010 0	therapy, for ulnar collateral ligament injuries in baseball players
9_9_010_1	UCL reconstruction using the Ito method combined with the twisting technique
2-3-S18-4	
9_9_C10 E	
2-3-S18-5	Treatment strategy for ulnar collateral ligament injuries in baseball players:
	Ligament repair/internal brace ····································

11:00~	12:00	Instructional lecture 20	Moderator	N. Taniguchi
2-3-EL20	Throwin	ng shoulder injury update 2025 ······	<i>Iiroyuki Sugaya</i> , Tokyo Sports & Orth	op. Clinic…S191
12:30 ~	13:40	Luncheon seminar 14	Moderat	or Y. Uchio
2-3-LS14		e and surgical procedure of locking plate i 		
13:55 ~ From p		Symposium 19 ion in sports by disabled children to	Moderators S. Torii paralympians	, S. Fujiwara
2-3-S19-1		nes for sports participation of children wi 		iya HospS192
2-3-S19-2	Pediatr	ic bone tumors and participation in sports <i>Rober</i>	s activities <i>t Nakayama,</i> Dept. of Orthop. Surg., F	
2-3-S19-3	•••••	ch to sports participation from infancy in	Dept. of Orthop. Surg., Miyagi Childre	
2-3-S19-4	into ad	res to ensure that children with disabilities tulthood in Fukushima		
2-3-S19-5		ralympics for children with disabilities	nunichi Kawai, Japanese Paralympic C	ommittee…S194
15:20 ~ Is cons		Symposium 20 treatment suitable for PCL (posterior	Moderators T. Nakaga cruciate ligament) injuries?	wa, H. Koga
2-3-S20-1		onal anatomy of the posterior cruciate liga ······ Takanori Iriuchishima, et		ma Hoen\$105
2-3-S20-2	Biomed	chanics of the posterior cruciate ligament:	Current concept review	
2-3-S20-3	Conser	vative restoration of acute PCL injury		
2-3-S20-4	Instruc	tions for reducing the postoperative side- ement even with a single bundle hamstri	to-side difference of posterior tibial	
2-3-S20-5	recur	-bundle PCL reconstruction using hamstr rent/residual posterior tibial translation?		
2-3-S20-6	Natural poste		t injury and Improvement of double-bu	ındle
9 2 520 7			Fukuoka San	no Hosp.···S197
2-3-S20-7		construction using quadriceps tendon-pat ······Shuji Taketomi, et al., Ortho Surgical Sciences, Go		
16:55~	17:55	Instructional lecture 21	Moderator	H. Okamoto
16:55 ~ 2-3-EL21	17:55 Sport re	Surgical Sciences, Gr	raduate School of Medicine, The Univ. Moderator nd wrist	of Tokyo…

2nd Day May 23 Room 4 (TIF, Hall B7(2))

The pro) : 20 os and c	Symposium 21 cons of computer-assisted hip surg		s Y. Inaba, M. Takao
2-4-S21-1		tages and disadvantages of compact na	_	ısuikai Kinen HospS200
2-4-S21-2	THA v	with the automatic technology navigation	on system	
2-4-S21-3	Accura	acy of cup positioning during robotic-as ···· Shinya Hayashi, et al., Dept. of Orth	ssisted total hip arthroplasty	
2-4-S21-4	Comp	uter assisted acetabular osteotomy for	better long-term quality of life	
2-4-S21-5		its of CT-based navigation in curved in	Graduate School of Me	dicine, Osaka UnivS20
2-4-S21-6		atsuhiko Kutsuna, et al., Dept. of Ortho tages and limitations of computer-assis		School of Medicine…S20
	•••••	·····Naomi Kobayashi, et al., Dept. of C	Orthop. Surg., Yokohama City U	niv. Medical Center···S20
9:25 ~ 1 Pros ar		Symposium 22 revealed by hip arthroscopy in hip		. Sugiyama, A. Kanaji
2-4-S22-1		cal indication and clinical outcome of hi		or Sports Medicine…S20
2-4-S22-2		articular lesions in hip pathologies ····		
2-4-S22-3		oscopic findings in adult hip dysplasia	· Masanori Fujii, Dept. of Ortho	p. Surg., Saga Univ.···S20
2-4-S22-4		throscopic surgery for labral tear	ashima, et al., Dept. of Orthop. S	Surg., Kitasato UnivS20
2-4-S22-5		ations of hip arthroscopy (cases with po		d by
		ster surgeon) ·····		
		Wakamatsu Hosp. of the	he Univ. of Occupational and En	
11:00~			he Univ. of Occupational and En	
	12:00 Therap	Wakamatsu Hosp. of the	he Univ. of Occupational and En Mod ral fractures according to three	vironmental Health···S203 lerator M. Hasegawa classifications
	12:00 Therap	Wakamatsu Hosp. of the Instructional lecture 22 Deutic strategies of periprosthetic femore	he Univ. of Occupational and En Mod ral fractures according to three of the order of Orth Tomonori Baba, Dept. of Orth	vironmental Health···S203 lerator M. Hasegawa classifications
2-4-EL22 12:30 ~	12:00 Therap 13:40 Total h	Wakamatsu Hosp. of the Instructional lecture 22 Deutic strategies of periprosthetic femore.	Moderal fractures according to three of Orth Moderal fractures acco	vironmental Health···S203 lerator M. Hasegawa classifications top., Juntendo Univ.···S204 erator K. Fukushima Update 2025
2-4-EL22 12:30 ~ 2-4-LS15 13:55 ~	12:00 Therap 13:40 Total h Yasu 15:15	Wakamatsu Hosp. of the Instructional lecture 22 beutic strategies of periprosthetic femore. Luncheon seminar 15 bip arthroplasty in the Reiwa era, unrave	Moderators T. S	vironmental Health···S203 lerator M. Hasegawa classifications top., Juntendo Univ.···S204 erator K. Fukushima Update 2025
2-4-EL22 12:30 ~ 2-4-LS15 13:55 ~ Challer 2-4-S23-1	12:00 Therap 13:40 Total h	Wakamatsu Hosp. of the Instructional lecture 22 Deutic strategies of periprosthetic femore Luncheon seminar 15 ip arthroplasty in the Reiwa era, unrawa hiro Homma, et al., Dept. of Orthop. Str. Symposium 23 It treatments for insufficiency peri-hint status and issues of fragility fracture. The F	Moderators T. S in fractures Moderators T. S in fractures Moderators T. S in fractures s of the pelvis Moderator, Dept. of Orth Moderators T. S in fractures s of the pelvis Moderator, Dept. of Orth Moderators T. S in fractures s of the pelvis Moderator, Dept. of the Jikei Univ.	vironmental Health…S20 lerator M. Hasegawa classifications top., Juntendo UnivS20 lerator K. Fukushima Update 2025 tric Medical Center…S20 leawaguchi, A. Mogami pt. of Orthop. Surg., School of Medicine…S20
2-4-EL22 12:30 ~ 2-4-LS15 13:55 ~	12:00 Therap 13:40 Total h Yasuu 15:15 Curre The di	Wakamatsu Hosp. of the Instructional lecture 22 Description of periprosthetic femore seminar 15 Description of the Reiwa era, unrawathiro Homma, et al., Dept. of Orthop. Surposium 23 International lecture 22 International lecture 22 Market 23 International lecture 22 International lecture 24 International lecture 25 Int	Moderators T. S in fractures Moderators T. S in fractures Moderators T. S in fractures s of the pelvis Washiwa Hosp. of the Jikei Univ. I insufficiency fracture of the fer, Dept. of Orthop. Surg., Red Cr	lerator M. Hasegawa classifications top., Juntendo UnivS20 erator K. Fukushima Update 2025 tric Medical CenterS20 awaguchi, A. Mogami pt. of Orthop. Surg., School of MedicineS20 noral head toss Fukuoka HospS20

2-4-S23-4	Problem of treatment for periprosthetic femoral fractures
2-4-S23-5	Treatment strategies for acetabular fractures in the elderly Tomomi Fukuhara, et al., Trauma and Reconstr. Surg. Center, Niigata Kenoh Kikan Hosp S209
15: 20 ~ Revisit	16:40 Symposium 24 Moderators H. Ito, K. Goto ing the past to understand the present in artificial hip joints
2-4-S24-1	Kinematic analysis of gait, chair-rising, and sports activities and patient's satisfaction after total hip arthroplasty ····································
2-4-S24-2	Graduate School of Medical Sciences, Kyushu Univ.···S210 Development and clinical application of custom-made acetabular implants using additive manufacturing technology ············ Tamon Kabata, et al., Dept. of Orthop. Surg., Graduate School of Medical Sciences, Kanazawa Univ.···S210
2-4-S24-3	The next frontier in computer-assisted THA is soft tissue Masaki Takao, et al., Dept. of Orthop. Surg., Ehime Univ. Graduate School of Medicine S211
2-4-S24-4	Development and prospects of augmented reality-based navigation
2-4-S24-5	Usefulness of cemented stems and development of implants
16:55~	
	······································
	2nd Day May 23 Room 5 (TIF, Hall D7)
8:00 ~ 9 Pathop	
	20 Symposium 25 Moderators S. Imai, K. Kikugawa
Pathop	2: 20 Symposium 25 Moderators S. Imai, K. Kikugawa Shysiology and treatment strategy for frozen shoulder Anatomical knowledge of rotator interval: Implication of frozen shoulder Akimoto Nimura, Dept. of Functional Joint Anatomy, Biomedical Engineering Laboratory, Institute of New Industry Incubation, Institute of Science Tokyo S214 Pain mechanism and pathology of frozen shoulder Nobuyuki Yamamoto, et al., Dept. of Orthop. Surg.,
Pathop 2-5-S25-1	2: 20 Symposium 25 Moderators S. Imai, K. Kikugawa Shysiology and treatment strategy for frozen shoulder Anatomical knowledge of rotator interval: Implication of frozen shoulder Akimoto Nimura, Dept. of Functional Joint Anatomy, Biomedical Engineering Laboratory, Institute of New Industry Incubation, Institute of Science Tokyo S214 Pain mechanism and pathology of frozen shoulder Nobuyuki Yamamoto, et al., Dept. of Orthop. Surg., Tohoku Univ. Graduate School of Medicine S214 Conservative treatment for frozen shoulder: Present and future
Pathop 2-5-S25-1 2-5-S25-2	2: 20 Symposium 25 Moderators S. Imai, K. Kikugawa Shysiology and treatment strategy for frozen shoulder Anatomical knowledge of rotator interval: Implication of frozen shoulder Akimoto Nimura, Dept. of Functional Joint Anatomy, Biomedical Engineering Laboratory, Institute of New Industry Incubation, Institute of Science Tokyo S214 Pain mechanism and pathology of frozen shoulder
Pathop 2-5-S25-1 2-5-S25-2 2-5-S25-3	2: 20 Symposium 25 Moderators S. Imai, K. Kikugawa Shysiology and treatment strategy for frozen shoulder Anatomical knowledge of rotator interval: Implication of frozen shoulder Akimoto Nimura, Dept. of Functional Joint Anatomy, Biomedical Engineering Laboratory, Institute of New Industry Incubation, Institute of Science Tokyo S214 Pain mechanism and pathology of frozen shoulder Nobuyuki Yamamoto, et al., Dept. of Orthop. Surg., Tohoku Univ. Graduate School of Medicine S214 Conservative treatment for frozen shoulder: Present and future Yoshiaki Itoigawa, et al., Dept. of Orthop. Surg., Juntendo Univ. Urayasu Hosp S215
Pathop 2-5-S25-1 2-5-S25-2 2-5-S25-3 2-5-S25-4 2-5-S25-5 9:25~1	Anatomical knowledge of rotator interval: Implication of frozen shoulder
Pathop 2-5-S25-1 2-5-S25-2 2-5-S25-3 2-5-S25-4 2-5-S25-5 9:25~1	Anatomical knowledge of rotator interval: Implication of frozen shoulder Anatomical knowledge of rotator interval: Implication of frozen shoulder Akimoto Nimura, Dept. of Functional Joint Anatomy, Biomedical Engineering Laboratory, Institute of New Industry Incubation, Institute of Science Tokyo S214 Pain mechanism and pathology of frozen shoulder

2-5-S26-3	Partial nerve transfer: Mainly on supercharged end for ulnar nerve paralysis ·································· Morin	
2-5-S26-4	Status and prospects for the development of robotic surgery field ···· Satoshi Ichihara, et al., Dept. of O	microsurgery in peripheral nerve
2-5-S26-5	Current status for artificial hand and targeted muscl	le reinnervation
2-5-S26-6	Treatment for brachial plexus injury using wearable	
11:00~		Moderator H. Ikegami
2-5-EL24	Which disorders we should apply total elbow arthrop	-
		t. of Orthop. Surg., Kurashiki Central Hosp.···S220
12:30~	13:40 Luncheon seminar 16	Moderator N. Okimoto
2-5-LS16	Knowledge update on osteoporotic vertebral fracture	
13:55 ~ Surgice	15:15 Symposium 27 al treatment of refractory medial epicondylitis	Moderators T. Arai, Y. Tomori
2-5-S27-1	Surgical treatment of medial epicondylitis	Surg., Saiseikai Shimonoseki General HospS221
2-5-S27-2	Open surgical treatment for medial epicondylitis	uki, et al., Dept. of Orthop. Surg., Keio Univ.···S221
2-5-S27-3	Surgical management for refractory medial epicondy characteristics of flexor pronator origin	ylitis based on the anatomical
2-5-S27-4	Problems with open surgery for medial epicondylitis long-term results · · · Hideaki Imada, Dept. of Ortho	s of the humerus from the perspective of
2-5-S27-5	Arthroscopic surgery for refractory medial epicondy	
15:20~		
	rs since the introduction of reverse shoulder arthr	Moderators T. Izaki, N. Taniguchi roplasty
2-5-S28-1	Treatment strategies for massive irreparable rotator	
2-5-S28-2	Trends of reverse shoulder arthroplasty	ugawa, Dept. of Orthop. Surg., Mazda HospS224
_ 0 0_0 _	·····Kotaro Yamakado, I	Dept. of Orthop. Surg., Fukui General HospS224
2-5-S28-3	Medium to long term outcomes of reverse shoulder	
2-5-S28-4	Knacks and tricks to improve clinical outcomes in re	Dept. of Orthop. Surg., Kushiro Rosai HospS225 everse shoulder arthroplasty
		ept. of Orthop. Surg., Dokkyo Medical Univ.···S225
2-5-S28-5	Future direction of reverse shoulder arthroplasty	ura, et al., Dept. of Orthop. Surg., Keio Univ.···S226
16:55~		Moderator T. Morihara
2-5-EL25-1	·····Nobuya	

2-5-EL25-2	Treatment strategies fo					Hosp., Show	a UnivS227
		2nd Day	May 23	Room 6	TIF, Ha	II D5)	
8:00 ~ 9 Latest 6	: 20 Symposium 29 evidence on idiopathic a	nterior and p	posterior in	terosseous	Moderators nerve palsy	H. Kato,	M. Amako
2-6-S29-1	Pathophysiological cons						
2-6-S29-2	Ultrasound imagings in	diopathic ante	erior and pos	sterior intero	sseous nerve p	alsy	
2-6-S29-3	Interfascicular neurolysi	s for spontane	eous anterio	interosseou	s nerve palsy		
2-6-S29-4	Pathological findings of	diopathic ante	erior and po	sterior intero	sseous nerve p	oalsy	
2-6-S29-5	Clinical features and pro						
2-6-S29-6	Results after conservativ	re treatment of erve palsy: A	r interfascic Japanese m	ular neurolys ılticenter stu	sis of 100 limbs dy	with sponta	nneous
9:25 ~ 10 The late			, , <u>,</u>		rators H. Ish		
2-6-S30-1	Indications for total wris	suke Akita, et d					Center…S231
2-6-S30-2	Three-dimensional preop implant placement ·····						n Univ…S231
2-6-S30-3	Tips and pitfalls in total	wrist arthropla	asty ····· Yosi	hiaki Yamand		t. of Orthop	. Surg.,
2-6-S30-4	Clinical outcomes of tota					o Holzlzoida	o I Iniv 5929
2-6-S30-5	The clinical results of totand salvage operation a	al wrist arthro					
	·····Narihit		al., Dept. of	Orthop. Surg	g., Shiga Univ. o	of Medical S	cience···S233
11:00~	12:00 Instructional	lecture 26				Moderate	or K. Iba
2-6-EL26-1	The current status of in		·····Taku	ji Iwamoto, 🛭	Oept. of Orthop	o. Surg., Kei	o UnivS234
2-6-EL26-2	Surgical treatment and					Rheumatic	Center…S234
12:30 ~	13:40 Luncheon sen	ninar 17			I	Moderator	G. Inoue
2-6-LS17	Japanese action plan 2025 pain disorders ······						o Univ.···S235

13:55 ~ Linking	15:15 Symposium 31 Moderators K. Ikeda, H. Tanaka g basic and clinical research in peripheral nerve regeneration						
2-6-S31-1	Pathophysiology of age-related decline in peripheral nerve axon regeneration focusing on the						
	transcriptional regulator REST ·········Kiyohito Naito, et al., Dept. of Orthop., Juntendo Univ.···S236						
2-6-S31-2	Therapeutic strategy of axon regeneration after peripheral nerve injury through an elucidation						
	of the reparative process by Schwann cells						
	Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ.···S236						
2-6-S31-3	Application of adipose derived stem cells to peripheral neuropathy						
	Kaoru Tada, et al., Dept. of Orthop. Surg.,						
	Graduate School of Medical Sciences, Kanazawa Univ.···S237						
2-6-S31-4	Bio 3D nerve conduit using bio 3D printer						
2-6-S31-5	Clinical outcomes of artificial collagen nerve conduits (renerve) and the application in						
	nerve wrapping ······ Shigeru Kurimoto, et al., Dept. of Orthop. Surg., Toyota Memorial Hosp. ··· S238						
2-6-S31-6	Nerve wrapping and capping using nerve conduit						
	···· Takuya Uemura, et al., Dept. of Orthop. Surg.,						
	Osaka General Hosp. of West Japan Railway Company…S238						
15:20~	16:40 Symposium 32 Moderators T. Masatomi, A. Sakai						
Techno	ological innovations in hand surgery						
2-6-S32-1	3D preoperative planning and related technological developments for upper extremity osteosynthesis						
	······ Yuichi Yoshii, et al., Dept. of Orthop. Surg., Tokyo Medical Univ. Ibaraki Medical Center···S239						
2-6-S32-2	Three-dimensional preoperative planning for elbow and wrist arthroplasty						
	······ Tomoki Matsuo, et al., Dept. of Orthop. Surg., Ogikubo Hosp.···S239						
2-6-S32-3	High-hydrostatic pressure treatment for regenerative therapy						
2-6-S32-4	Congenital differences and innovations for therapeutic strategies						
	··· Takehiko Takagi, Dept. of Orthop. Surg., National Center for Child Health and Development···S240						
2-6-S32-5	3D reconstruction from plain X-ray images using artificial intelligence						
16:55~	17:55 Instructional lecture 27 Moderator K. Ikeda						
2-6-EL27-1	Epineurium mediating mechanism underlying peripheral nerve repair and regeneration						
	Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ.···S242						
2-6-EL27-2	The cutting edge of peripheral nerve reconstruction and regeneration						
	······ Ryosuke Ikeguchi, et al., Rehabilitation Units, Kyoto Univ. Hosp.···S242						
	2nd Day May 23 Room 7						
8:00~9	0:00 Free papers 26 Idiopathic scoliosis 1 Moderators T. Tsuji, M. Miyagi						
2-7-1 Ut	pper instrumented vertebra and cervical alignment could affect the incidence of postoperative						
	proximal junctional kyphosis in adolescent idiopathic scoliosis patients						
	22						

2-7-2	-	on post-operative r	•		
			et al., Div. of Surg. Care, Mo		
2-7-3		study of the muscul scular scoliosis	ar dystrophy spine questior	nnaire (MDSQ) in Japan	ese in flaccid type
	•••••	····· Wat	taru Saito, et al., Dept. of O	rthop. Surg., Kitasato Uı	niv. Medical Center…S244
2-7-4	Long-term	changes in the non	-fused lumbar intervertebra	al discs and facet joints in	n adolescent
			r postoperative MRI evaluat		
	•••••			· Takaaki Uto, et al., Dep	ot. of Orthop. Surg.,
			Graduate S	chool of Medical Scienc	es, Kanazawa UnivS244
2-7-5	The effect	of thoracic curve de	eviation on postoperative ali	gnment in selective lum	bar fusion surgery
	for Lenke	5 AIS	······Kentaro Kai, et al.,	Scoliosis Center, Osaka	City General HospS245
2-7-6	Investigation	on of SRS-22r MCII) in Japanese adolescent idi	opathic scoliosis patients	s: Multicenter
	study usin	ng coplanar method			
	\cdots Junya	Katayanagi, et al.,	Dept. of Orthop. Surg., Dok	kyo Medical Univ. Saita	ma Medical Center…S245
9:25	~ 10:25	Free papers 27	Idiopathic scoliosis 2	Moderators	T. Hirano, H. Nojiri
2-7-7			lated factors following corre		
	•••••		·····Shota Tamaga	wa, et al., Dept. of Orth	op., Juntendo UnivS246
2-7-8			reliability of the Risser sign		
	-		ication system ··· Ryuichiro	· · · · · · · · · · · · · · · ·	
2-7-9			proves apical vertebral trans		thoraco-lumbar
			n adolescent idiopathic scol		
0.7.10			·····Juri Teram		
2-7-10			actor for the progression of pt. of Orthop. Surg., Akita I		
2-7-11			re for thoracic idiopathic sco		
2 1 11		and sagittal planes	ie for thoracie idiopathic sec	onosis provides execuen	t correction in the
			al., Dept. of Orthop. Surg.,	Scoliosis Center, Osaka	City General HospS248
2-7-12			adolescent idiopathic scolid		
			, Div. of Orthop. Surg., Dep		•
					nd Dental Sciences···S248
11:00	0 ~ 12:00	Free papers 28	Lumbar spine 2	Moderators	H. Ataka, T. Nikaido
2-7-13	Progressi	on of lumbar spond	ylolisthesis over 10 years: F	indings from a large-sca	le general
2 . 10		on cohort study	yronomeone over 10 years, 1	mamgo nom a migo sec	no general
		•	akahiro Kozaki, et al., Dept.	of Orthop, Surg., Wakay	ama Medical Univ.···S249
2-7-14			ical composition and clinica		
		t age groups	•	• •	
	•••••	·····Kenichi K	Tawaguchi, et al., Dept. of Re	ehabilitation Medicine, F	Kyushu Univ. HospS249
2-7-15			ack pain in children: Simila		
	•••••			Toru Hirano, et al., Dep	ot. of Orthop. Surg.,
		Uonuma Inst	itute of Community Medici	ne, Niigata Univ. Medica	al and Dental HospS250
2-7-16	Preoperat	tive trunk muscle m	ass measured using MRI in	fluences adjacent segme	ent dysfunction
	after pos	sterior lumbar inter	body fusion ···· Sosuke Saito	, et al., Dept. of Orthop.	Surg., Nihon Univ.···S250
2-7-17			sity is associated with the 1		
			·····Juri Teram		
2-7-18			dex correlates more to flexi	bility including hip joint	s and lumbar
	=	an the number of fu	_	0.1.01.1.22	1
	•••••••	viasaki Sakamoto, ei	t al., Dept. of Orthop. Surg.	, Graduate School of Me	aicine, Kyoto Univ.···S251

12:30	~ 13:40	Luncheon semir	nar 18		Moderator	S. Tanaka			
2-7-LS18		······ Shuji Asai, De	f rheumatic diseases that o ept. of Orthop./Rheumatol in Integrated Medicine, O	ogy, Musculoskeleta	l and Cutaneou				
13:55	~ 14:55	Free papers 29	Lumbar spine 3	Moderators	Y. Murata, T.	Tetsunaga			
2-7-19	-		phase III trial of condoliase	=					
2-7-20									
2-7-21	stenosis: l	Post hoc analysis of	alin add-on NSAIDs for per MiroTAS <i>uya Nikaido, et al.</i> , Dept. o						
2-7-22	Effect of lu	mbar body morphol	logy on radiographic stendusushi Murai, et al., Dept.	sis and symptomatic	stenosis in the	9			
2-7-23	Investigation	on of the insertion r	oute for ultrasound-guided	l L5 nerve root block	:				
2-7-24	lumber su	ırgery	s-sacral canal plasty (TSCF l., Dept. of Orthop. Surg.,	-	-				
15:20	~ 16:20		Spine osteoporosis 1	Moderators					
2-7-25	Compariso	n of Hounsfield unit	and MRI-based vertebral	bone quality score in	n assessing the	risk of			
2-7-26	Effect of ph patients (narmacological treat J-BOLD study): Ret	ement on osteoporotic vert rospective cohort study us ······ Tosi	ebral fractures in lat sing large-scale datab	e-stage elderly pase				
2-7-27	Investigation	(Graduate School of Biomeo effectiveness of balloon ky	dical and Health Scie	nces, Hiroshin	na Univ.···S256			
2-7-28	Low back p	oain following osteo	<i>Kento Watanabe, et al.</i> , Deporotic vertebral fracture: d conservative treatment						
2-7-29	MRI-based		ept. of Orthop. Surg., Natic lity score can predict the s res						
2-7-30	The impact Pain redu	t of bed rest duration ction at discharge a	itsuru Asukai, et al., Dept. n on patients with osteopo nd clinical outcomes , et al., Dept. of Orthop. S	rotic thoracolumbar	vertebral fracti	ıres:			
	~ 17 : 55 e osteoporo	Free papers 31 osis 2/spinal infec	tion	Moderator	s T. Arizono	, S. Nakajo			
2-7-31	model ba	sed on plain radiogr	f diagnostic accuracy of an raphs omonori Morita, et al., Dep	_					

2-7-32	The impact of nutritional s Focus on improvement i	n FIM and mortalit	ty				
2-7-33	Impact of care-dependence A retrospective cohort st	y on functional dec udy	cline follow	wing vertebra	l compression f	ractures:	
2-7-34	Akira Honda Characteristics and risk fa The impact of aortic calc	actors for severe discification and malnu	sability in utrition	men with ost	teoporotic verte	bral fractur	es:
2-7-35	Evaluation of factors invol instrumentation surgery	ved in implant rem 7 for lumbar degene	oval due t erative dis	to surgical sit sease	e infection after	spinal	
2-7-36	Dural sac compression aft	er lumbar interboo	ly fusion j ······Y	oredisposes to Vuichi Hasegar	o surgical site in wa, et al., Dept.	afection of Orthop.	Surg.,
		2nd Day M	May 23	Room 8	(TIF, G70	11)	
8:00~	9:00 Instructional	lecture 28			Modera	tor M. M.	atsumoto
2-8-EL28	Genome analysis of per			tical and Trai	nslational Genet	ics, IMS, R	IKEN…S262
	10:45 Symposium Sorefront of pediatric hip				Moderators	T. Otani,	S. Mitani
2-8-S33-1 2-8-S33-2	Basic and clinical rese	Faculty of Medi arch on Perthes di	cine and sease	Graduate Sch	ool of Medicine	, Hokkaido	Univ.···S263
2-8-S33-3	Ryosuk B Diagnosis and treatmeTomonori Tets	ent of developmenta	al dysplas	ia of the hip			
2-8-S33-4		arch for pediatric h	nip disord	ers			
2-8-S33-5	Advancements in pedi		akashi Sa	isu, et al., Ch	iba Child & Adu	ılt Orthop. (Clinic…S265
11:00	~ 12:00 Instructiona	al lecture 29			Mode	erator H.	Tsuchiya
2-8-EL29	The power and attraction						Hosp.···S266
12:30	~ 13∶40 Luncheon s	eminar 19			N	Ioderator	T. Sakai
2-8-LS19	Kampo treatment appro			k <i>ai,</i> Dept. of I	Pain Clinic, Sase	bo Kyosai l	Hosp.···S266
	$\sim 15:15$ Symposium tment options for correct		ormities	M	Ioderators Y.	Oka, D. T	`akahashi
2-8-S34-1	Treatment using tensi		, Dept. of	Rehabilitatio	n Medicine, Kyı	ushu Univ. I	HospS267

2-8-S34-2	Percutaneous epiphysiodesis using transphyseal screws for pediatric limb deformities							
2-8-S34-3	External fixation in limb reconstruction for children							
2-8-S34-4	•							
	······································	en's Hosp.···S268						
Aiming	$\sim 16:40$ Symposium 35 Moderators A. ing for a society free of complete hip dislocations at the onset of walking: rent status and challenges	Seki, T. Kinjo						
2-8-S35-1	Current status and issues of primary and secondary health screening for DDH in Osa							
2-8-S35-2								
2-8-S35-3								
2-8-S35-4	··· Yoshitaka Eguchi, Dept. of Orthop. Surg., National Center for Child Health and De							
2-8-S35-5	5 DDH from the perspective of infant hip joint recommendations							
16:55~	> 17:55 Instructional lecture 30 Moderator	M. Kamegaya						
2-8-EL30	Surgical treatment for developmental dysplasia of the hip: Let's remember two technic Tanabe open reduction and Salter innominate osteotomy							
	2nd Day May 25 Room 5 (111, Coo2)							
8:00~9	~ 9:00 Free papers 32 Knee: TKA & UKA 1 Moderators T. To	omita, R. Gejo						
2-9-1 M	Medial laxity during total knee arthroplasty leads to inferior postoperative clinical outcomfunctions in multi-center study	es and						
2-9-1 M 2-9-2 In	Medial laxity during total knee arthroplasty leads to inferior postoperative clinical outcomfunctions in multi-center study Shinichiro Nakamura, et al., Dept. of Orthop. Surg., Graduate School of Medicine, F. Intraoperative implant gap measurement and postoperative outcomes at Oxford mobile Ul	es and Xyoto Univ.···S273 KA using						
2-9-1 M 2-9-2 In tl 2-9-3 In	Medial laxity during total knee arthroplasty leads to inferior postoperative clinical outcome functions in multi-center study Shinichiro Nakamura, et al., Dept. of Orthop. Surg., Graduate School of Medicine, F. Intraoperative implant gap measurement and postoperative outcomes at Oxford mobile UI the tensor	es and Kyoto Univ.···S273 KA using losai Hosp.···S273						
2-9-1 M 2-9-2 In tl 2-9-3 In fo	Medial laxity during total knee arthroplasty leads to inferior postoperative clinical outcome functions in multi-center study Shinichiro Nakamura, et al., Dept. of Orthop. Surg., Graduate School of Medicine, F. Intraoperative implant gap measurement and postoperative outcomes at Oxford mobile UI the tensor	es and Kyoto Univ.···S273 KA using losai Hosp.···S273 roplasty gawa Univ.···S274						

2-9-5	Mako sy	stem with postopera		, ,		
2-9-6	Dynamic je total kne	oint line orientation e arthroplasty	angle during gait affects patie at al., Dept. of Orthop. Surg., G	nt-reported outcome mea	sures afte	er
9:25	~ 10:25		Knee: TKA & UKA 2	Moderators		
2-9-7			axity and patient satisfaction in			,
	knee ar	throplasty	Dept. of Orthop. Surg., Yamaş		ool of Med	dicine…S276
2-9-8	Focus o	n lateral osteoarthr				dicino\$276
2-9-9	Anteropo		asaka, et al., Dept. of Orthop. Soft lateral femur is related with one arthroplasty			псше…3270
0 0 10			l., Dept. of Orthop. Surg., Nipp			
2-9-10	impact	on patient-reported	city after unicompartmental kn outcomes ······ <i>Yukio Akasaki, et al.</i> , De			
2-9-11	Gender r	egulates changes in	n tibial bone quality following u ··· Takehiro Shimizu, et al., De	nicompartmental knee ar	throplasty	y
2-9-12	_		ne real world data of knee arth et al., Dept. of Orthop. Surg., G		ne, Kyoto	Univ.···S278
11:00) ~ 12 : 00	Free papers 34	4 Knee: TKA & UKA 3	Moderators A. Kob	ayashi, l	K. Harato
2-9-13	rearfoo	t pressure balance a	d TKA neutralizes lower limb a	walking		1: :
2-9-14	Integration	ng elongation patter	et al., Dept. of Orthop. Surg., ins with AR-based navigation in tsushi Sato, et al., Dept. of Orth	n kinematic alignment TK	A	
2-9-15	Pre- and p		ges in femoral alignment and it			
		•	al., Dept. of Orthop. Surg., To		ool of Med	dicine…S280
2-9-16			KA) TKA without restriction prShigenobu		f Orthon	Surg
			Yan	magata Saisei Hosp. Arthi	oplasty C	
2-9-17	clinical	results	ith femur first cut technique ca			
2-9-18			akahashi, et al., Dept. of Ortho ing the functional alignment m			enter…S281
2 3 10			chanical alignment method	iculou with havigation sys	wiii.	
			·····Zenta Jotoku, et al., Dep	ot. of Orthop. Surg., Obihi	ro Kosei l	Hosp.···S281
12:30) ~ 13 : 40	Luncheon sem	ninar 20	Mod	lerator	H. Ikeda
2-9-LS20	_	_	nd solutions for knee pain with			Univ.···S282
2-9-LS20	0-2 Real	-world data of PRP	therapy: Uncovering the truth	of treatment effects		

13:55	5 ~ 14 : 55	Free papers 35	Knee: Osteotomy 1	Moderators	K. Kumagai, M. Itoh
2-9-19	closed-w	edge knee osteoton	anges of lateral compartment ny for medial knee osteoart ····································	hritis	
2-9-20	The influe	nce of tibial curvatu	re in around knee osteoton shi Nakamura, et al., Dept.	ny	
2-9-21	The influe	nce of meniscus and te knee joint ···· <i>Koj</i>	d leg alignment on the distr i Iwasaki, et al., Dept. of Fu Faculty of Medicine and Gra	ibution of subchondral nctional Reconstruction	bone density n for the Knee Joint,
2-9-22		of subchondral bone	mineral density distributio	n after high tibial osteo ki Hosokawa, et al., De	tomy pt. of Orthop. Surg.,
2-9-23	wedge hig	of medial meniscus gh tibial osteotomy	Faculty of Medicine and Graextrusion on the postopera	tive cartilage regenerat	ion after open
2-9-24	In proxima	al tibial anterior clos	i, Dept. of Orthop. Surg., H sing wedge osteotomy lowe Youngji K	r starting points imply	arger bone
15:20	○ ~ 16 : 20	Free papers 36	Knee: Osteotomy 2	Moderators E	. Nakamura, N. Gomi
2-9-25	high tibia	l osteotomy	ng changes in the joint line a, et al., Dept. of Orthop. So		
2-9-26	Knee joint	-line obliquity after	double level osteotomyAkira Kawai, et al., De		
2-9-27	Postoperat knee oste	tive outcomes of dis eoarthritis with med	tal tuberosity osteotomy co lial root tear	mbined with meniscal	pullout repair in
2-9-28	The mid-t		Kawasaki, Dept. of Orthop. ce of preoperative medial m steotomy		
2-9-29	Evaluation inverted	of outcome of "Acu V-shaped HTO: Mu	· Kazushi Horita, et al., Depute oblique osteotomy and l lticentric study with 231 ca	igation procedure" peri ses	Formed with
2-9-30	Evaluation	of accuracy and eff	Dai Sato, et al., icacy of inverted V-shaped le (MK wedge blade)		
	•••••	·····Masaf	iumi Itoh, et al., Dept. of Ort	thop. Surg., Tokyo Wor	nen's Medical Univ.···S288
16:55	5 ~ 17:55	Free papers 37	Knee: Ligament	Moderators	T. Otani, H. Ogawa
2-9-31			l all reconstruction for seve Shunta Hanaki, et al., Dept.		
2-9-32	Combined Second le	ACL and all recons	truction improves knee sta valuation	bility and enhances me	niscal healing:
2-9-33	Factors int	fluencing medial par	Shunta Hanaki, et al., Dept. tellar stiffness after medial	patellofemoral ligamen	t

2-9-34		relation between Q-v dislocation	ector and torsional and	rotational defoi	mity in recurrent	
	-		Div of Orthon Surg	Dept of Regen	erative and Transplant M	edicine
	•	singer is Tanage, et al.			of Medical and Dental So	
2-9-35	Compar	ison of clinical outco	0		nt reconstruction using	51011005
- 0 00						on
			(English)	····· Yuki Suzi	graft for patellar dislocati ki, et al., Dept. of Orthop). Surg
					ool of Medicine, Hokkaid	
2-9-36	Menisco				: Detailed anatomy using	
2 3 00					Dept. of Orthop., Juntend	
	шее р	oblion metrod	1100000	1001111111, 01 1111, 1	sept. of of thop,, juntend	
		Γ	0.15 35 00		/TIE (0040)	
			2nd Day May 23	Room 10	(TIF, G610)	
	~ 9:20	Symposium 36			derators Y. Mochida,	K. Nishida
Cur	rent statu	s and challenges o	f joint-preserving sur	gery for rheu	natoid arthritis	
2-10-S36	6-1 Pot	ential of wide synove	ectomy of the elbow as a	ı ioint preservir	g surgery in patients with	h
2 10 000					Center for Rheumatic D	
			110/180	-	hama City Univ. Medical	
2-10-S36	S-2 Ioir	nt preserving surgeri	ies for wrist with rheum		nama eng emv. meanear	Center 6202
2 10 000					hop. Surg., Okayama City	v Hosp ···S292
2-10-S36			oint preserving surger		nop. ourg., onayama org	, 1100р. 6262
2 10 000					duate School of Medical S	Science
			nyo ouu, or un, pept.		to Prefectural Univ. of M	
2-10-S36	S-4 Fy	perience of high tibia	l osteotomy for rheuma			carenie 5200
2 10 000		ecent medication	rostcotomy for rincume	told al till itis pe	dents a cated with	
			akahara et al. Dent of	Orthon Surg	Nippon Kokan Fukuyama	a Hosp ···S293
2-10-S36					omplicated by hallux valg	
- 10 000					thop. Surg., Toho Univ. (
0 : 25	~ 10:25		RA: Medication		lerators O. Obayashi,	
9 . 20	10 . 20	Tree papers 50	ica, medicadon	MOC	lerators O. Obayasın,	1. Nagaya
2-10-1				√F antagonist th	erapy in BIO-JAK naïve	
		ts with rheumatoid a				
					thop. Surg., Toyota Kose	
2-10-2		_		ental status in 1	heumatoid arthritis achie	eving
		ent target: A KURAN	•			
	•••••	···· Takayuki Fujii, e	t al., Dept. of Orthop. S	urg., Graduate	School of Medicine, Kyot	to Univ.···S295
2-10-3	Effective	eness of JAK inhibito	ors in elderly-onset rheu	matoid arthritis	;	
	•••••••••••••••••••••••••••••••••••••••	Kenya Terabe, et al., 1	Dept. of Orthop./Rheur	natology, Musc	uloskeletal and Cutaneou	s Surg.,
		Progra	am in Integrated Medici	ne, Graduate S	chool of Medicine, Nagoy	a UnivS296
2-10-4			natic drugs in rheumato			
	•••••		·····Kou Katayama	, et al., Katayan	na Orthop. Rheumatology	y Clinic…S296
2-10-5	High do	se subcutaneous MT	X can improve rapid ra	diographic prog	ression in first phase the	rapy.
		ndidate for biologic t				
	•••••		·····Kou Katayama	, et al., Katayan	na Orthop. Rheumatology	y Clinic…S297
2-10-6	The actu	ual condition of pneu	mocystis pneumonia in	patients with rh	eumatoid arthritis and	
	preven	tive effect of salazos	ulfapyridine: Aichi prefe	ecture DPC data	ı	
	•••••	····Ryo Sato, et al., 1	Dept. of Orthop./Rheur	natology, Musc	uloskeletal and Cutaneou	s Surg.,
		Progra	nm in Integrated Medici	ne, Graduate S	chool of Medicine, Nagoy	a Univ.···S297

11:00 ~	- 12:00	Instructional lecture 31	Mode	erator	T. Oda
2-10-EL31		diagnose and treat spondyloarthritis: Psoriatic arthritis and axi			
	•••••	·····Yuho Kadono, Dept. of Orthop. Sur	g., Saitama Me	edical U	JnivS298
12:30 ~	- 13:40	Luncheon seminar 21	Moderator	N. Ta	kahashi
2-10-LS21-	reh	tment for rheumatoid arthritis in the super-aging society: The inabilitation therapy ·········· Yuya Takakubo, et al., Dept. of Orthon	op. Surg., Yam		Jniv.···S299
2-10-LS21-	ort	points and pitfalls in the treatment of elderly patients with rheum hopaedic surgeons should be aware of ···Kosuke Ebina, et al., Dept. of Orthop. Surg., Graduate School			JnivS299
13:55~	- 15:15	Symposium 37 Moderators	I. Matsushi	ita, K.	Nishida
Timin	g of upper	and lower limb surgery in rheumatoid arthritis			
2-10-S37-1		ive selection of shoulder surgery in patients with rheumatoid ar 		natic Cl	linia\$300
2-10-S37-2	2 Optim	al timing for surgical intervention in elbow joint complications of	of rheumatoid	arthriti	s
2-10-S37-3					ospS300
2 10 337 3	_	lepartment ···········Yuichiro Matsui, et al., Faculty of Dental M			niv.···S301
2-10-S37-4		iming for RA hip surgery ·· <i>Shinya Hayashi, et al.</i> , Dept. of Orthop. Surg., Kobe Univ. Grad	duata School a	of Modi	cino\$201
2-10-S37-5	Exami	ining the timing and indications of knee surgery in rheumatoid a	arthritis		
2-10-S37-6	S Assess	sment of the foot and ankle from early stage of RA treatment			
15:20 ~	- 16:20	Free papers 39 Moderators	K. Hayakav	va, J. I	Fukushi
RA: St	urgery/mi	scellaneous			
2-10-7		dic surgical intervention for patients with difficult-to-treat rheun			
2-10-8		of joint-preserving surgery for rheumatoid forefoot deformity co			nter…S303
0.40.0		algus ······ Ayako Kubota, et al., Dept. of Orthop. S			ori)···S303
2-10-9		onship between difficult-to-treat rheumatoid arthritis and sarcoptional study: T-FLAG study	penia: A multio	center	
	•••••			edical U	Jniv.···S304
2-10-10		n the reversibility of social frailty in patients with rheumatoid ar nter observational study (T-FLAG study)	thritis from a		
		····· Mochihito Suzuki, et al., Dept. o			
		Musculoskeletal and Cutaneous Surg., Program Graduate School of	_		
2-10-11		on between disease activity, muscle quality, and physical function arative study with healthy controls			
		······ Takaya Sugiura, et al., Dept. o			
		Musculoskeletal and Cutaneous Surg., Prograt Graduate School of			
2-10-12		es in drug selection among rheumatoid arthritis patients based es · · · · · · · · · · · · · · · · · ·	on out-of-pock	et med	ical

16:55~	17:55 Instruction	al lecture 32		Moderator S. Matsubara
2-10-EL32	•			nent strategy: The importance hop. Surg., Aichi Medical Univ.···S306
		2nd Day May	23 Room JP-A	(JP tower, Hall 1+2+3)
8:00 ~ 9 Key po	: 20 Symposium 3 ints in osteoporosis s			rators H. Hagino, H. Ishibashi rgeons
2-A-S38-1		nging-based osteoporos	_	
2-A-S38-2	Essential points for os	steoporosis screening o	onsidering secondar	., Kawasaki Univ. of Med. WelfS307 y osteoporosis Toranomon Hosp. Endocr. CtrS307
2-A-S38-3	Development of resea	rch on osteoporosis, s	rcopenia, and frailty	considering geriatric medicine nal Univ. of Health and Welfare…S308
2-A-S38-4	Key points for osteop	prosis screening by ort	hopaedic surgeons: V	What we should do to close the ept. of Orthop. Surg., Ina HospS308
9:25~1				erators I. Ohno, T. Matsumura
Indicat	ions and limitations of	t conservative treatm	ient orthopaedic si	urgeons should know
2-A-S39-1	•••••		mi Saka, et al., Dept.	of Orthop. Surg., Teikyo UnivS309
2-A-S39-2				ons of conservative treatment da, Dept. of Emerg., Gifu UnivS309
2-A-S39-3		tions of conservative tr		lius fractures ept. of Orthop., Juntendo Univ.···S310
2-A-S39-4	The indications and li	mitations of nonoperat	ve treatment for isola	ated lateral malleolar fractures of Orthop. Surg., Kyorin Univ.···S310
2-A-S39-5	Indications and bound	laries of conservative t	reatment for thoracol I Center for Emerger	
11:00~	12:00 Instruction	al lecture 33		Moderator T. Noda
2-A-EL33		re of the distal radius: I		sited na, Sapporo Tokushukai HospS312
12:30 ~	13:40 Luncheon	seminar 22		Moderator M. Ito
2-A-LS22		·····Masanor	<i>i Yorimitsu</i> , Dept. of I	rove outcomes Musculoskeletal Traumatology, utical Sciences, Okayama Univ.···S312
		·	·	

Region	al cooperation after proximal femoral fracture surgery in patients with osteoporosis
2-A-S40-1	The collaboration in osteoporosis treatment for patients with proximal femoral fracture
	Shunji Kishida, et al., Dept. of Orthop. Surg., Seirei Sakura Citizen HospS313
2-A-S40-2	What acute care hospitals can do to support secondary fracture prevention after hip fractures in
	medical clinics ····································

Moderators A. Nishimoto, S. Kishida

13:55 ~ 15:15

Symposium 40

2-A-S40-3	Regional collaboration for			ective d., Seirei Sakura Citizen HospS314
2-A-S40-4	Developing OLS for primar	ry fracture prevent	ion: A model of regio	onal network and collaboration Surg., Sanmu Medical Center…S314
2-A-S40-5	Current status of secondar	y fracture preventi	on continuous mana ······Kan Takase, e	gement in Chiba prefecture et al., Kitachiba Orthop. Clinic…S315
2-A-S40-6	A survey of continued seco	ondary fracture pre	ventive management	
15: 20 ~ 1 The opt	16:40 Symposium 41			Moderators A. Sudo, M. Saito n, and how should it be solved?
2-A-S41-1	The issues in secondary fr multicenter studies			
2-A-S41-2	Mechanisms of bone fragil	ity approached from	m basic research · <i>Manabu Tsukamoto</i>	g., Kushiro City General Hosp.···S316
2-A-S41-3	Effect of osteoporosis drug	gs evaluated by bor	ne microarchitecture	anal and Environmental Health…S316 analysis School of Biomedical Sciences…S317
2-A-S41-4	Differential use of osteopo	rosis treatments ba	ased on real-world cli	
2-A-S41-5	Comprehensive manageme	ent of osteoporosis	treatment considering	=
16:55~	17:55 Instructional le	cture 34		Moderator K. Iba
16:55 ~ 1 2-A-EL34	Total management for dista	l radius fractures: l	·····Akinori	Moderator K. Iba
	Total management for dista	l radius fractures: l	·····Akinori	Moderator K. Iba eoporosis treatment i Sakai, Dept. of Orthop. Surg.,
2-A-EL34 8:00~9	Total management for dista	l radius fractures: l	e, Univ. of Occupatio Room JP-B	Moderator K. Iba eoporosis treatment i Sakai, Dept. of Orthop. Surg., onal and Environmental Health…S319
2-A-EL34 8:00~9	Total management for distance of the standard st	Il radius fractures: In the second of Medicine and Day May 2 Shritis The second of Medicine and Day May 2 Shritis The second of Medicine and Day May 2 Shritis The second of Medicine and Day May 2 Shritis The second of Medicine and Day May 2 Shritis The second of Medicine and Day May 2 Shritis The second of Medicine and Day May 2 Shritis The second of Medicine and Day May 2 Shritis The second of Medicine and Day May 2 Shritis The second of Medicine and Day May 2 Shritis The second of Medicine and Day May 2 Shritis The second of Medicine and Day May 2 Shritis The second of Medicine and Day May 2 Shritis The second of Medicine and Day May 2 Shritis The second of Medicine and Day May 2 Shritis The second of Medicine and Day May 2 Shritis The second of Medicine and Day May 2 Shritis The second of Medicine and Day May 2 Shritis The second of Medicine and Day May 2 Shritis The second of Medicine and Day May 2 Shritis The second of Medicine and Day May 2 Shritis The second of Medicine and Day May 2 Shritis The second of Medicine and Day May 2 Shritis The second of Medicine and Day May 2 Shritis The second of Medicine and Day May 2 Shritis The second of Medicine and Day May 2 Shritis The second of Medicine and Day May 2 Shritis The second of Medicine and Day May 2 Shritis The second of Medicine and Day May 2 Shritis The second of Medicine and Day May 2 Shritis The second of Medicine and Day May 2 Shritis The second of Medicine and Day May 2 Shritis The second of Medicine and Day May 2 Shritis The second of Medicine and Day May 2 Shritis The second of Medicine and Day May 2 Shritis The second of Medicine and Day May 2 Shritis The second of Medicine and Day May 2 Shritis The second of Medicine and Day May 2 Shritis The second of Medicine and Day May 2 Shritis The second of Medicine and Day May 2 Shritis The second of Medicine and Day May 2 Shritis The second of Medicine and Day May 2 Shritis The second of Medicine and Day May 2 Shritis The second of Medicine and Day May 2 Shritis	e, Univ. of Occupatio Room JP-B Me eoarthritis rthop. Surg., Sensor	Moderator K. Iba eoporosis treatment is Sakai, Dept. of Orthop. Surg., onal and Environmental HealthS319 (JP tower, Conference Room A oderators K. Ikari, N. Kanzaki y and Motor System Medicine,
2-A-EL34 8:00 ~ 9 Surgica	Total management for dista 2r 20 Symposium 42 I indications for ankle art Overview of surgical treats Tak Indication for supramalleo	school of Medicin And Day May 2 Chritis The ments for ankle ost cumi Matsumoto, O Surgical Sciences lar osteotomy for visit	e, Univ. of Occupation Room JP-B Me eoarthritis rthop. Surg., Sensor, Graduate School of arus-type osteoarthritis	Moderator K. Iba eoporosis treatment i Sakai, Dept. of Orthop. Surg., onal and Environmental HealthS319 (JP tower, Conference Room A oderators K. Ikari, N. Kanzaki y and Motor System Medicine, Medicine, The Univ. of TokyoS320 itis of the ankle: i, et al., Dept. of Orthop. Surg.,
2-A-EL34 8:00 ~ 9 Surgica 2-B-S42-1	Total management for dista 2r 20 Symposium 42 Il indications for ankle art Overview of surgical treatr Tak Indication for supramalleo Weight-bearing-line analys Surgical indications for anl	school of Medicin And Day May 2 Chritis The ments for ankle ostermi Matsumoto, O Surgical Sciences lar osteotomy for value osterosteotomy for	e, Univ. of Occupation Room JP-B Me eoarthritis rthop. Surg., Sensor, Graduate School of arus-type osteoarthritis ····Naoki Haraguchi St. Maria	Moderator K. Iba eoporosis treatment is Sakai, Dept. of Orthop. Surg., onal and Environmental HealthS319 (JP tower, Conference Room A oderators K. Ikari, N. Kanzaki y and Motor System Medicine, Medicine, The Univ. of TokyoS320 itis of the ankle: i, et al., Dept. of Orthop. Surg., anna Univ. School of MedicineS320 ity
2-A-EL34 8:00 ~ 9 Surgica 2-B-S42-1 2-B-S42-2	Total management for dista 2r 20 Symposium 42 Il indications for ankle art Overview of surgical treatr Tak Indication for supramalleo Weight-bearing-line analys Surgical indications for anl	School of Medicin and Day May 2 thritis ments for ankle ost cumi Matsumoto, O Surgical Sciences lar osteotomy for value sis	e, Univ. of Occupation Room JP-B Mo eoarthritis rthop. Surg., Sensor, Graduate School of arus-type osteoarthri St. Maria ased on joint congrui	Moderator K. Iba eoporosis treatment is Sakai, Dept. of Orthop. Surg., onal and Environmental Health···S319 (JP tower, Conference Room A oderators K. Ikari, N. Kanzaki y and Motor System Medicine, is Medicine, The Univ. of Tokyo···S320 itis of the ankle: ii, et al., Dept. of Orthop. Surg., anna Univ. School of Medicine···S320 itity ii, et al., Dept. of Orthop. Surg.,
2-A-EL34 8:00 ~ 9 Surgica 2-B-S42-1 2-B-S42-2	Total management for dista 2r 20 Symposium 42 Il indications for ankle art Overview of surgical treatr Tak Indication for supramalleo Weight-bearing-line analys Surgical indications for anl	School of Medicin And Day May 2 Chritis The ments for ankle osterumi Matsumoto, O Surgical Sciences lar osteotomy for value osteotomy for value osteoarthritis be described by the steel of the steel osteoarthritis be described by the steel osteoarthritis by the steel	e, Univ. of Occupation Room JP-B Mo eoarthritis rthop. Surg., Sensor, Graduate School of arus-type osteoarthri Naoki Haraguchi St. Maria ased on joint congruit Shota Harada ded Cross Nagasaki A	Moderator K. Iba eoporosis treatment is Sakai, Dept. of Orthop. Surg., onal and Environmental HealthS319 (JP tower, Conference Room A oderators K. Ikari, N. Kanzaki y and Motor System Medicine, Medicine, The Univ. of TokyoS320 itis of the ankle: i, et al., Dept. of Orthop. Surg., anna Univ. School of MedicineS320 ity
2-A-EL34 8:00 ~ 9 Surgica 2-B-S42-1 2-B-S42-2 2-B-S42-3	Total management for dista	School of Medicin School of Medicin Ad Day May 2 Chritis ments for ankle ost cumi Matsumoto, O Surgical Sciences lar osteotomy for va sis	e, Univ. of Occupation Room JP-B Mo eoarthritis rthop. Surg., Sensor, , Graduate School of arus-type osteoarthritis St. Mariased on joint congruited of the congruited of t	Moderator K. Iba eoporosis treatment is Sakai, Dept. of Orthop. Surg., onal and Environmental Health···S319 (JP tower, Conference Room A oderators K. Ikari, N. Kanzaki y and Motor System Medicine, is Medicine, The Univ. of Tokyo···S320 itis of the ankle: ii, et al., Dept. of Orthop. Surg., anna Univ. School of Medicine···S320 itity ii, et al., Dept. of Orthop. Surg.,

$9:25 \sim 10$	0:45 Symposium 43	Moderators Y. Tanaka, T. Nakasa
Foot su	rgery techniques that should be shared with the world	
2-B-S43-1	Alumina ceramic total talar replacement ahead of the world t	
2-B-S43-2	What happens in hallux valgus feet with a second MTP joint expected from checkrein procedure	
2-B-S43-3	Joint preserving surgery for forefoot deformity in patients w	ith rheumatoid arthritis
2-B-S43-4		v external fixator
2-B-S43-5	Medical technology development by precision medical engine ankle surgery ·············Shinji Imade, et d	eering: Application to the foot and
11:00~	12:00 Instructional lecture 35	Moderator S. Matsubara
2-B-EL35-1	Total ankle arthroplasty in patients with rheumatoid arthrit	is
2-B-EL35-2		rheumatoid arthritis in foot and
		School of Medicine, Hokkaido UnivS326
12:30 ~	13:40 Luncheon seminar 23	Moderator T. Ogata
2-B-LS23	Clinical application and mechanism of action of cell therapy for	
13:55~		ensory and Motor System Medicine,
13:55~	Taku Saito, Orthop. Surg., Se Surgical Sciences, Graduate Scho 15: 15 Symposium 44	ensory and Motor System Medicine, ool of Medicine, The Univ. of Tokyo…S327 Moderators T. Onodera, N. Kanzaki
13:55 ~ Current	Taku Saito, Orthop. Surg., Se Surgical Sciences, Graduate Scho 15: 15 Symposium 44 t status of lateral approach total ankle arthroplasty Indications for lateral approach total ankle arthroplasty	ensory and Motor System Medicine, cool of Medicine, The Univ. of Tokyo…S327 Moderators T. Onodera, N. Kanzaki urg., Tokyo Women's Medical UnivS328
13:55 ~ Current 2-B-S44-1	Taku Saito, Orthop. Surg., Se Surgical Sciences, Graduate Scho 15: 15 Symposium 44 t status of lateral approach total ankle arthroplasty Indications for lateral approach total ankle arthroplasty Koichiro Yano, Dept. of Orthop. So Limitations of lateral approach total ankle arthroplasty	ensory and Motor System Medicine, cool of Medicine, The Univ. of Tokyo···S327 Moderators T. Onodera, N. Kanzaki urg., Tokyo Women's Medical Univ.···S328 a., Teikyo Univ. Hosp., Mizonokuchi···S328 ween implants lobal and Transdisciplinary Studies,
13:55 ~ Current 2-B-S44-1 2-B-S44-2	Taku Saito, Orthop. Surg., Se Surgical Sciences, Graduate Scholls: 15 Symposium 44 It status of lateral approach total ankle arthroplasty Indications for lateral approach total ankle arthroplasty	ensory and Motor System Medicine, cool of Medicine, The Univ. of Tokyo···S327 Moderators T. Onodera, N. Kanzaki urg., Tokyo Women's Medical Univ.···S328 g., Teikyo Univ. Hosp., Mizonokuchi···S328 ween implants lobal and Transdisciplinary Studies, Chiba Univ.···S329
13:55 ~ Current 2-B-S44-1 2-B-S44-2 2-B-S44-3	Taku Saito, Orthop. Surg., Se Surgical Sciences, Graduate Scholor Surgical Sciences, Graduate Scholor Status of lateral approach total ankle arthroplasty Indications for lateral approach total ankle arthroplasty Koichiro Yano, Dept. of Orthop. St Limitations of lateral approach total ankle arthroplasty Tetsuro Yasui, Dept. of Orthop. Surg In vivo kinematics of total ankle arthroplasty: Difference bet Satoshi Yamaguchi, et al., Graduate School of G Pathology and management of medial residual pain following ankle replacement Yuki Tochigi, Dept. of Orthop. Surg., Dokkyo Me Tibiofibular fixation in lateral trans-fibular total ankle replace	ensory and Motor System Medicine, cool of Medicine, The Univ. of Tokyo···S327 Moderators T. Onodera, N. Kanzaki Lurg., Tokyo Women's Medical Univ.···S328 g., Teikyo Univ. Hosp., Mizonokuchi···S328 ween implants lobal and Transdisciplinary Studies, Chiba Univ.··S329 g lateral transfibular total dical Univ. Saitama Medical Center,···S329 ment
13:55 ~ Current 2-B-S44-1 2-B-S44-2 2-B-S44-3 2-B-S44-4 2-B-S44-5	Taku Saito, Orthop. Surg., Se Surgical Sciences, Graduate Scholor Surgical Sciences, Graduate Scholor Status of lateral approach total ankle arthroplasty Indications for lateral approach total ankle arthroplasty	ensory and Motor System Medicine, cool of Medicine, The Univ. of Tokyo···S327 Moderators T. Onodera, N. Kanzaki Lurg., Tokyo Women's Medical Univ.···S328 L., Teikyo Univ. Hosp., Mizonokuchi···S328 ween implants lobal and Transdisciplinary Studies, Chiba Univ.··S329 g lateral transfibular total dical Univ. Saitama Medical Center,···S329 ment rthop. Surg., Sapporo Medical Univ.··S330
13:55 ~ Current 2-B-S44-1 2-B-S44-2 2-B-S44-3 2-B-S44-4	Taku Saito, Orthop. Surg., Se Surgical Sciences, Graduate Scholor Surgical Sciences, Graduate Scholor Status of lateral approach total ankle arthroplasty Indications for lateral approach total ankle arthroplasty	ensory and Motor System Medicine, cool of Medicine, The Univ. of Tokyo…S327 Moderators T. Onodera, N. Kanzaki Lurg., Tokyo Women's Medical UnivS328 g., Teikyo Univ. Hosp., Mizonokuchi…S328 ween implants lobal and Transdisciplinary Studies, Chiba UnivS329 g lateral transfibular total dical Univ. Saitama Medical Center,…S329 ment

	~ 17:55 Free papers	40 Foot & ankle	Moderators	T. Nishikawa, K. Watanabe
?-B-1		air for ankle osteoarthritis		
?-B-2	Correlation between distal ankle osteoarthritis			of Orthop. Surg., Jujo Hosp.···S332 distribution in
י מי				iv. Saitama Medical Center···S332
2-B-3	Relationship between bone			esions of the talus Surg., Hyogo Medical Univ.···S33
-B-4	Reference value of weight-h 1000 community-dwelling	pearing line on the ankle: A		
DE				olinary Studies, Chiba UnivS333
2-B-5	Factors affecting postural sKen Tanaka			al and Pharmaceutical Univ.···S334
2-B-6	Assessment of ankle osteoa	arthritis using bone SPEC	Γ/CT quantification	
	• • • • • • • • • • • • • • • • • • • •			t al., Dept. of Orthop. Surg.,
		Gradua	ite School of Medica	ıl Sciences, Kanazawa UnivS334
		2nd Day May 23	Room JP-C (JP tower, Conference Roo
	∼ 9:20 Symposium 45 ances in malignant soft tis		Moderators	K. Hiraoka, H. Kawashima
:-C-S45-	Advances in second-lin	e chemotherapy for advan	ced malignant soft t	issue tumors
			·····Makoto Endo, et	t al., Dept. of Orthop. Surg.,
2-C-S45-2	Advances in generale a			ical Sciences, Kyushu UnivS335
;=C-343= <i>i</i>	Advances in genomic in	nedicine for advanced soft	ussue sarcoma	
	······Hiroshi Kobayas	shi. Dept. of Orthop. Surg.	. The Univ. of Tokyo	Hosp., The Univ. of Tokyo…S335
2-C-S45-3	B Improvement in radiati	on therapy for unresectabl	le soft tissue sarcon	o Hosp., The Univ. of Tokyo…S33 as: Utilization of particle
2-C-S45-3	Improvement in radiati radiation therapy and	on therapy for unresectable stereotactic radiation thera	le soft tissue sarcom apy	as: Utilization of particle
	Improvement in radiati radiation therapy and Akii Radiofrequency ablatio	on therapy for unresectable stereotactic radiation thera thiro Nomoto, et al., Dept. on therapy for oligometasta	le soft tissue sarcom apy of Orthop. Surg., Jur asis in sarcoma at ou	as: Utilization of particle atendo Univ. Urayasu HospS336 r hospital
?-C-S45-4	Improvement in radiati radiation therapy and Akii Radiofrequency ablatio	on therapy for unresectable stereotactic radiation there whire Nomoto, et al., Dept. on therapy for oligometasta	le soft tissue sarcom apy of Orthop. Surg., Jur usis in sarcoma at ou Sato, et al., Dept. of 0	nas: Utilization of particle ntendo Univ. Urayasu HospS336 nr hospital Orthop. Surg., Teikyo UnivS336
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:-C-S45-4 :-C-S45-;	Improvement in radiati radiation therapy and a	on therapy for unresectable stereotactic radiation therachiro Nomoto, et al., Dept. on therapy for oligometasta	le soft tissue sarcomapy of Orthop. Surg., Jurasis in sarcoma at out the sate, et al., Dept. of dvanced soft tissue the thop. Surg., Nation:	nas: Utilization of particle ntendo Univ. Urayasu Hosp.···S336 nr hospital Orthop. Surg., Teikyo Univ.···S336 numor al Defense Medical College···S337
:-C-S45-4 :-C-S45-;	Improvement in radiati radiation therapy and and an adiation therapy and an adiation and adiation adiation and adiation and adiation and adiation and adiation and adiation and adiation adiation and adiation adiation and adiation adiation adiation and adiation ad	on therapy for unresectable stereotactic radiation therapy for Nomoto, et al., Dept. on therapy for oligometasta	le soft tissue sarcomapy of Orthop. Surg., Jur usis in sarcoma at out Sato, et al., Dept. of of dvanced soft tissue of thop. Surg., National	nas: Utilization of particle ntendo Univ. Urayasu Hosp.···S336 nr hospital Orthop. Surg., Teikyo Univ.···S336 numor al Defense Medical College···S337
-C-S45-4 -C-S45-4 -C-S45-6	Improvement in radiati radiation therapy and and an addition therapy and and an addition and addition and an addition and additional additional and additional additional additional and additional additio	on therapy for unresectable stereotactic radiation therapy for Nomoto, et al., Dept. on therapy for oligometasta	le soft tissue sarcomapy of Orthop. Surg., Jur usis in sarcoma at ou Sato, et al., Dept. of o dvanced soft tissue o thop. Surg., Nation ation therapy for inf ot. of Orthop. Surg.,	nas: Utilization of particle atendo Univ. Urayasu HospS336 ar hospital Orthop. Surg., Teikyo UnivS336 aumor al Defense Medical CollegeS336 iltrative subtypes of
2-C-S45-4 2-C-S45-5 2-C-S45-6 9:25	Improvement in radiati radiation therapy and and an addition therapy and and an addition and addition and an addition and additional additional and additional additional additional and additional additio	on therapy for unresectable stereotactic radiation therapy for Nomoto, et al., Dept. on therapy for oligometasta	le soft tissue sarcom apy of Orthop. Surg., Jur asis in sarcoma at ou Sato, et al., Dept. of o dvanced soft tissue o rthop. Surg., Nationa ation therapy for inf ot. of Orthop. Surg., Modera	nas: Utilization of particle atendo Univ. Urayasu HospS336 ar hospital Orthop. Surg., Teikyo UnivS336 aumor al Defense Medical CollegeS337 altrative subtypes of Aichi Cancer Center HospS337 ators H. Katagiri, H. Hiraga
2-C-S45-4 2-C-S45-4 2-C-S45-6 9:25 ~	Improvement in radiati radiation therapy and Akii Radiofrequency ablation	on therapy for unresectable stereotactic radiation therapy for Nomoto, et al., Dept. on therapy for oligometasta	le soft tissue sarcom apy of Orthop. Surg., Jur asis in sarcoma at ou Sato, et al., Dept. of o dvanced soft tissue o rthop. Surg., Nationa ation therapy for inf ot. of Orthop. Surg., 3 Modera e tumors be struct and recommendation	nas: Utilization of particle atendo Univ. Urayasu HospS336 ar hospital Orthop. Surg., Teikyo UnivS336 aumor al Defense Medical CollegeS336 altrative subtypes of Aichi Cancer Center HospS336 ators H. Katagiri, H. Hiraga atured? ons from oncologist to
How 2-C-JS3-1	3 Improvement in radiati radiation therapy and second a	on therapy for unresectable stereotactic radiation therapy for Nomoto, et al., Dept. on therapy for oligometasta	le soft tissue sarcom apy of Orthop. Surg., Jur asis in sarcoma at ou Sato, et al., Dept. of of dvanced soft tissue of thop. Surg., Nationa ation therapy for inf ot. of Orthop. Surg., Modera e tumors be struct and recommendation da, et al., Dept. of Orthop.	nas: Utilization of particle atendo Univ. Urayasu HospS336 ar hospital Orthop. Surg., Teikyo UnivS336 atmor al Defense Medical CollegeS336 altrative subtypes of Aichi Cancer Center HospS336 ators H. Katagiri, H. Hiraga tured? ons from oncologist to rthop. Surg., Kurume UnivS338
2-C-S45-4 2-C-S45-4 2-C-S45-0 9:25 ~	Improvement in radiati radiation therapy and a	on therapy for unresectable stereotactic radiation therapy for Nomoto, et al., Dept. on therapy for oligometasta	le soft tissue sarcom apy of Orthop. Surg., Jur asis in sarcoma at ou Sato, et al., Dept. of o dvanced soft tissue to thop. Surg., Nation ation therapy for inf ot. of Orthop. Surg., 3 Modera te tumors be struct and recommendation da, et al., Dept. of O actures due to bone	tendo Univ. Urayasu HospS336 ar hospital Orthop. Surg., Teikyo UnivS336 aumor al Defense Medical CollegeS33 altrative subtypes of Aichi Cancer Center HospS33 ators H. Katagiri, H. Hiraga tured? ons from oncologist to rthop. Surg., Kurume UnivS338 metastases: Collaboration

Kawasaki Medical School…S338

2-C-JS3-3		oration between a cancer center and spinal sur ·······················Akira Itoi, et al., Dept. of Or		ra Hosp.···S339
2-C-JS3-4	Practic	e and future prospects of collaboration with spancer center		
2-C-JS3-5	Cooper	ration between general practitioners and oncol	ogy institutions	
11:00 ~	12:00	Instructional lecture 36	Moderator	Y. Nishida
2-C-EL36		ions in diagnosis and treatment of soft tissue tAkihiko Matsumine, D		
12:30 ~	13:40	Luncheon seminar 24	Moderator Y.	Kawaguchi
2-C-LS24	Aimin			Iedicine,
13:55~	15:15	Symposium 46	Moderators A. Kaw	ai, T. Ozaki
The cu	rrent sit	uation of bone and soft tissue tumor treat	ment revealed from a large-scale	e database
2-C-S46-1 2-C-S46-2	Nation	al cancer database study: Real-world situations	Masatake Matsuoka, Dept. of Ortho aduate School of Medicine, Hokkaid of for bone and soft tissue tumors in ept. of Orthop. Surg., Okayama Uni	do UnivS342 the US
2-C-S46-3		na in Japan: Perspective from the bone and sof		
2-C-S46-4		al site infection in surgery for bone and soft tis		in Univ…S343
2-C-S46-5	Currer who	nt situation and future perspective in patients verceived unplanned excision in Japan	vith malignant bone and soft tissue t	tumors
	•••••			
15 : 20 -	16 : 20	Afternoon seminar 2	Moderator	
				n. Akiyama
2-C-AS2-1 2-C-AS2-2	Clinica	utlook of APS therapy for osteoarthritis of the	Miyatake, Institute of Science Toky rapy for knee osteoarthritis	-
16:55~	17:55	Instructional lecture 37	Moderator H	. Murakami
2-C-EL37		g spinal metastasis treatment: New perspectiv	÷	cal Univ.···S346

3rd Day May 24 Room 1 (TIF, Hall A) Only sessions marked as "English" will be conducted in English.

Challenge		Symposium 47 prospects in drug approval and	Moderators T. Kane I insurance coverage of new medi	_
3-1-S47-1		t-marketing safety measurement o	of brand new medical devicesDaisuke	Fujisawa, PMDA…S347
3-1-S47-2	System	framework for integrating medica	devices into insured medical care inEisaku Kishita, Medica	n Japan al Economics Div.,
3-1-S47-3		ory approval and reimbursement f	rance Bureau, Ministry of Health, La iling of new medical devices: 	
3-1-S47-4	Current	status of government approval of		
3-1-S47-5	techno	ology verification committee of JSS	on of new medical devices: Efforts of R R ura, et al., Dept. of Orthop. Surg., Ko	
10:30 ~ 11		Keynote lecture		derator N. Iwasaki
3-1-KL To	ward th	e revival of the research capability	in Japan: The role of medicineKiyohiro Houkin	n, Hokkaido Univ.···S350
12:00 ~ 13	3:10	Luncheon seminar 25	Modera	ator T. Matsumura
	••••	·····Shimpei Kitada, Or	thop. Trauma Center, Hyogo Pref. N	ishinomiya Hosp.···S351
3-1-LS25-2			enting SSI, skin ulcers, and hypertroping of Ogawa, Dept. of Plast. Surg., Nippos	
$3-1-LS25-2$ $13: 25 \sim 14$	•••••		i Ogawa, Dept. of Plast. Surg., Nippo	
13: 25 ~ 14 3-1-SL Soc	1: 25	Special lecture lopment through sports: Creating	i Ogawa, Dept. of Plast. Surg., Nippo	n Medical School···S351 derator H. Kawano with a sense
$13:25 \sim 14$ $3-1-SL$ Soo of $14:40 \sim 16$	1: 25 cial deve f well-be 3: 00	Special lecture lopment through sports: Creating	Moc a community where people can live voter of the House of Councillors, Nation Moderators Y. M	n Medical School···S351 derator H. Kawano with a sense
13: 25 ~ 14 3-1-SL Soo of 14: 40 ~ 16 The role 3-1-S48-1	1:25 cial deve f well-be 3:00 of ortho Internal emerge Internal	Special lecture clopment through sports: Creating ing ······ Seiko Hashimoto, Member Symposium 48 Department of the Wiener of	Moderators Y. M Modera	derator H. Kawano with a sense onal Diet of Japan···S352 likami, T. Kurozumi tive of the , Hiroshima Univ.···S353
13: 25 ~ 14 3-1-SL Soo of 14: 40 ~ 16 The role 3-1-S48-1 3-1-S48-2	ial dever f well-be is considered in the conside	Special lecture clopment through sports: Creating ing Seiko Hashimoto, Member Symposium 48 Department of the Symposium 48 Department of the Symposium through the Wile of the Symposium through the Wile of the Symposium as the Japan distributional cooperation as the Japan distributional peace cooperation activities syities	Moc a community where people can live where of the House of Councillors, Nation Moderators Y. Monal cooperation IO EMT initiative: From the perspect all (EMTCC)	derator H. Kawano with a sense onal Diet of Japan···S352 likami, T. Kurozumi tive of the , Hiroshima Univ···S353 ept. of Emergency, al Medical Center···S353 dedic aspects in .F. Sapporo Hosp.···S354
13: 25 ~ 14 3-1-SL Soo of 14: 40 ~ 16 The role 3-1-S48-1 3-1-S48-2	icial deve f well-be 6:00 of ortho Interna emerge Interna the act Interna	Special lecture clopment through sports: Creating ing Seiko Hashimoto, Member Symposium 48 Department of the William	Moderators Y. Mo	derator H. Kawano with a sense onal Diet of Japan···S352 likami, T. Kurozumi tive of the , Hiroshima Univ.···S353 ept. of Emergency, al Medical Center···S353 dedic aspects in .F. Sapporo Hosp.···S354 in
13: 25 ~ 14 3-1-SL Soo of 14: 40 ~ 16 The role 3-1-S48-1 3-1-S48-2	ial dever f well-be f well-be f well-be f of orthor international fractions of the first the act international medical first fractions of the act international first fractional fractions of the act international first fractional fractions of the act international fractions of the act international first fractions of the act international fractions of the act in the act international fractions of the act in the act international fractions of the act in the act i	Special lecture clopment through sports: Creating ing Seiko Hashimoto, Member Symposium 48 Department of the William	Moderators Y. Mo	derator H. Kawano with a sense onal Diet of Japan···S352 likami, T. Kurozumi tive of the , Hiroshima Univ.···S353 ept. of Emergency, al Medical Center···S353 dedic aspects in .F. Sapporo Hosp.···S354 in

3rd Day May 24 Room 2 (TIF, Hall C)

8:00~9	: 00	Instructional lecture 38		Moderator	H. Na	agashima
3-2-EL38	diseas	ical epidemiology of infectious d e prediction				
	•••••	······ <i>Hiroshi Nishiura,</i> Ce	nter for Health Security	, Grad. Sch. of Med.,	Kyoto	Univ.···S355
9:15~10	0:15	Instructional lecture 39		Mode	erator	K. Hara
3-2-EL39-1 3-2-EL39-2	 Paris	cal support of Paris 2024 Olympi	Dept. of Rehabilitation I	ing team		
10:30 ~ 1	11:30	Instructional lecture 40		Modera	ator 1	N. Kamei
3-2-EL40	ICT (int	formation and communication te	chnology) evolution's in	npact on medical and ········ Toshihiko Yam	health	icare ii LtdS357
12:00 ~ 1	13:10	Luncheon seminar 26		Moderator	S. N	Nakagawa
3-2-LS26-1 3-2-LS26-2	aug Augm	opment and future of next-gener mented reality ·········· Hiroyuki ented reality-based navigation sy ······· Sachiyuki Tsukada	Ogawa, Dept. of Orthop stem applied to total kn	o. Surg., Hokusuikai nee arthroplasty: The	AR-KN	NEE
14:40 ~ 1	15:40	Instructional lecture 41		Moder	ator	S. Ohtori
3-2-EL41	_	a in health economics	uka, Graduate School o	f Economics, The Ur	niv. of T	Гokyo…S359
15:55~1	17: 15		N	Ioderators T. Oza		
15:55~1	17: 15 portance Import	Symposium 49	Norious orthopaedic discartilage degeneration	Moderators T. Oza seases in early-stage	ki, N.	Tsumaki
15:55 ~ 1 The imp	Import knee o	Symposium 49 of cartilage metabolism in variance of cartilage metabolism for	rious orthopaedic discartilage degeneration is funeaki Ishijima, et al., tabolism in repair and r	Moderators T. Oza seases in early-stage Dept. of Orthop., Jur regeneration	ki, N.	Tsumaki Univ.···S360
15:55 ~ 1 The imp 3-2-S49-1	Import knee oo Osteoa	Symposium 49 of cartilage metabolism in variance of cartilage metabolism for esteoarthritis	rious orthopaedic discartilage degeneration is funeaki Ishijima, et al., tabolism in repair and ral., Dept. of Orthop. Surous endplate in spine	Moderators T. Oza seases in early-stage Dept. of Orthop., Jur regeneration rg., Surgical Science,	ki, N.	Tsumaki Univ.···S360 Univ.···S360
15: 55 ~ 1 The imp 3-2-S49-1 3-2-S49-2 3-2-S49-3 3-2-S49-4	Inportance Import knee of Osteoa Cartila,	Symposium 49 of cartilage metabolism in variance of cartilage metabolism for esteoarthritis	rious orthopaedic discartilage degeneration is funeaki Ishijima, et al., tabolism in repair and rul., Dept. of Orthop. Surous endplate in spine et al., Dept. of Orthop. asaki Matsushita, et al., I and Cutaneous Surg., Graduate S	Moderators T. Oza seases in early-stage Dept. of Orthop., Jur- regeneration rg., Surgical Science, Surg., Fukushima M. Dept. of Orthop./Rl- Program in Integrate school of Medicine, N	ki, N. Tokai Iedical neumated Mec	Univ.···S360 Univ.···S361 tology, dicine,
15:55 ~ 1 The imp 3-2-S49-1 3-2-S49-2 3-2-S49-3	Inportance Import knee of Osteoa Cartila Cartila	Symposium 49 of cartilage metabolism in variance of cartilage metabolism for esteoarthritis	rious orthopaedic discartilage degeneration is funeaki Ishijima, et al., tabolism in repair and rul., Dept. of Orthop. Surous endplate in spine et al., Dept. of Orthop. asaki Matsushita, et al., I and Cutaneous Surg., Graduate Sulignancy, genetic abnor	Moderators T. Oza seases in early-stage Dept. of Orthop., June regeneration rg., Surgical Science, Surg., Fukushima M. Dept. of Orthop./Rl Program in Integrate school of Medicine, N rmalities, and cartilage	ki, N. Tokai Iedical neumated Meclagoya ge	Univ.···S360 Univ.···S361 Univ.···S361 univ.···S361 Univ.···S361
15: 55 ~ 1 The imp 3-2-S49-1 3-2-S49-2 3-2-S49-3 3-2-S49-4	Inportance Import knee of Osteoa Cartila Chonde metal	Symposium 49 of cartilage metabolism in variance of cartilage metabolism for esteoarthritis	rious orthopaedic discartilage degeneration is funeaki Ishijima, et al., tabolism in repair and rul., Dept. of Orthop. Surous endplate in spine et al., Dept. of Orthop. asaki Matsushita, et al., I and Cutaneous Surg., Graduate Sulignancy, genetic abnor	Moderators T. Oza seases in early-stage Dept. of Orthop., June regeneration rg., Surgical Science, Surg., Fukushima M. Dept. of Orthop./Rl Program in Integrate school of Medicine, N rmalities, and cartilage chabil. Med., Nagoya	ki, N. Tokai Iedical neumated Meclagoya ge Univ. l	Univ.···S360 Univ.···S361 Univ.···S361 univ.···S361 Univ.···S361

3rd Day May 24 Room 3 (TIF, Hall B7(1))

$7:50\sim 8$: 50 JOA Directors' proposed lecture 1	Moderator S. Nakajima
3-3-JEL1-1 3-3-JEL1-2	Radiation safety management for occupational exposure of ho Toshioh Fujibuchi, Div. of Med. Q. Sci., Dept. of Hlth. Sc Occupational radiation exposure for spine surgeons: Risks ar	i., Fac. of Med. Sci., Kyushu Univ.···S364 Id medical safety strategies
	0:15 JOA Directors' proposed symposium 4 se Orthopaedic Association's initiatives to address challen s from Health Japan 21 (Third edition)	Moderators T. Ohe, M. Tanaka ges:
3-3-JS4-1	Understanding a precursor of locomotive syndrome using GLE large-scale surveys in 2017–2019 and 2024	
3-3-JS4-2	Measures to decrease in number of patients of locomotive synchronic synchroni	drome as JOA
3-3-JS4-3	The impact of locomotive syndrome on various diseases and re <i>Yoshitada Sakai</i> , Div. of Rehabilitation Medicine, Kobe U	ehabilitation treatment
3-3-JS4-4	Current status and future direction of osteoporosis screening i Naohisa Miyakoshi, et al., Dept. of Orthop. Surg., Akita U	=
3-3-JS4-5	Importance and problems of osteoporosis screening	
		of Medicine, The Chiv. of Tokyo 5007
10:30 ~ 1		Moderator A. Matsumine
10:30 ~ 1 3-3-JEL2		Moderator A. Matsumine
	Update of SSI prevention in clean surgery, and our knowledge surgery.	Moderator A. Matsumine
3-3-JEL2	Update of SSI prevention in clean surgery, and our knowledge some Koji Yam 13:10 Luncheon seminar 27 Using data analytics and predictive modeling to improve reliance David	Moderator A. Matsumine gap wada, et al., Nakanoshima OrthopS368 Moderator T. Iida whility (English) d Ou-Yang, Dept. of Orthop. Surg., ool of Medicine, Denver, CO, USAS369 ative 3D imaging systems
3-3-JEL2 12:00 ~ 1 3-3-LS27-1	Update of SSI prevention in clean surgery, and our knowledge surgery. **Topic Yam** 13: 10 Luncheon seminar 27 Using data analytics and predictive modeling to improve reliance of Colorado School Revolutionizing spine surgery with the evolution of intraoper and the Colorado School Revolutionizing spine surgery with the evolution of intraoper and the Colorado School Revolutionizing spine surgery with the evolution of intraoper and the Colorado School Revolutionizing spine surgery with the evolution of intraoper and the Colorado School Revolutionizing spine surgery with the evolution of intraoper and the Colorado School Revolutionizing spine surgery with the evolution of intraoper and the Colorado School Revolutionizing spine surgery with the evolution of intraoper and the Colorado School Revolutionizing spine surgery with the evolution of intraoper and the Colorado School Revolutionizing spine surgery with the evolution of intraoper and the Colorado School Revolutionizing spine surgery with the evolution of intraoper and the Colorado School Revolutionizing spine surgery with the evolution of intraoper and the Colorado School Revolution spine surgery with the evolution of intraoper and the Colorado School Revolution spine surgery with the evolution of intraoper and the Colorado School Revolution spine surgery with the evolution of intraoper and the Colorado School Revolution spine surgery with the evolution of intraoper and the Colorado School Revolution spine surgery spine surgery spine surgery and the Colorado School Revolution spine surgery spine surgery spine surgery spine	Moderator A. Matsumine gap wada, et al., Nakanoshima OrthopS368 Moderator T. Iida whility (English) d Ou-Yang, Dept. of Orthop. Surg., ool of Medicine, Denver, CO, USAS369 ative 3D imaging systems
3-3-JEL2 12:00 ~ 1 3-3-LS27-1 3-3-LS27-2	Update of SSI prevention in clean surgery, and our knowledge some Koji Yam 13: 10 Luncheon seminar 27 Using data analytics and predictive modeling to improve reliance Davie Univ. of Colorado School Revolutionizing spine surgery with the evolution of intraoper Tokumi Kanemura, Dept. of Colorado School Revolution of Intraoper Tokumi Kanemura, Dept. of Colorado School Revolution School Revolution of Intraoper Tokumi Kanemura, Dept. of Colorado School Revolution School Revoluti	Moderator A. Matsumine gap yada, et al., Nakanoshima OrthopS368 Moderator T. Iida hbility (English) d Ou-Yang, Dept. of Orthop. Surg., yool of Medicine, Denver, CO, USAS369 ative 3D imaging systems Orthop. Surg., Konan Kosei HospS369 Moderator K. Urabe
3-3-JEL2 12:00 ~ 1 3-3-LS27-1 3-3-LS27-2 13:25 ~ 1	Update of SSI prevention in clean surgery, and our knowledge some Koji Yam 13:10 Luncheon seminar 27 Using data analytics and predictive modeling to improve reliance Davie Univ. of Colorado School Revolutionizing spine surgery with the evolution of intraoper Tokumi Kanemura, Dept. of Clean Medical innovation and bioethics: Organ transplantation	Moderator A. Matsumine gap yada, et al., Nakanoshima OrthopS368 Moderator T. Iida hbility (English) d Ou-Yang, Dept. of Orthop. Surg., yool of Medicine, Denver, CO, USAS369 ative 3D imaging systems Orthop. Surg., Konan Kosei HospS369 Moderator K. Urabe splantation, Hokkaido Univ. HospS370 splantation in Japan
3-3-JEL2 12:00 ~ 1 3-3-LS27-1 3-3-LS27-2 13:25 ~ 1 3-3-EL43-1	Update of SSI prevention in clean surgery, and our knowledge and the second seminar 27 Using data analytics and predictive modeling to improve reliance and the second seminar 27 Univ. of Colorado School Revolutionizing spine surgery with the evolution of intraoper and the second seminar 27 Medical innovation and bioethics: Organ transplantation and bioethics: Organ transplantation and bioethics: Organ transplantation and second seminary of the seminary of	Moderator A. Matsumine gap yada, et al., Nakanoshima OrthopS368 Moderator T. Iida hbility (English) d Ou-Yang, Dept. of Orthop. Surg., yool of Medicine, Denver, CO, USAS369 ative 3D imaging systems Orthop. Surg., Konan Kosei HospS369 Moderator K. Urabe splantation, Hokkaido Univ. HospS370 splantation in Japan ot. of Orthop. Surg., Kitasato UnivS370

3-3-ICL1-2	Meniscus tears in elite athletes: Treatment considerations, clinical outcomes, and return to play ········Scott A. Rodeo, American Academy of Orthopaedic Surgeons (AAOS) ··· S371
15:55~	16:55 JOA/AAOS combined program: Instructional lecture 2 (English) Moderators H. Sugaya, Y. Ishibashi
3-3-ICL2-1	Does MR arthrography improve evaluation of patients with posterior shoulder instability? An analysis from the MOON Shoulder Instability Group
3-3-ICL2-2	Elbow ligament reconstruction of baseball players
17:20~	18:50 JOA/AAOS combined symposium (English) Moderators A. Amendola, K. Sato
Current	t status of treatment for sports injury
3-3-CS-1	Screening for early detection of capitellar OCD
3-3-CS-2	Current surgical treatments for OCD
3-3-CS-3	Management for elbow injuries of professional players
3-3-CS-4	Orthobiologics for anterior cruciate ligament reconstruction
3-3-CS-5	New frontier of ACL reconstruction
3-3-CS-6	Biomechanical and clinical evaluations of anatomic double-bundle anterior cruciate ligament reconstruction ········Eiji Kondo, Centre for Sports Med., Hokkaido Univ.···S375
	ord Day May 21 Itoom 1
$7:50\sim 8$: 50 JOA Directors' proposed lecture 3 Moderator D. Hamada
3-4-JEL3-1	Clinical relevance and potential of CT-based robotic knee surgery: Is the opinion of an early adapter justified? · · · · · · · · Masaki Mizushima, et al., Dept. of Orthop. Surg., Yonemori Hosp. · · · S376
3-4-JEL3-2	Is knee robot-assisted surgery all-purpose?
8:55 ~ 10 Current	0:15 JOA Directors' proposed symposium 5 Moderators N. Adachi, R. Kuroda t status and challenges of knee joint regenerative medicine
3-4-JS5-1	Minimally invasive approach and future perspectives of biomaterial based articular cartilage regeneration therapy ····································
3-4-JS5-2	PRP therapy for knee joint disorders
3-4-JS5-3	Randomized controlled study of allogenic stem cell-based cartilage repair
3-4-JS5-4	Regenerative medicine for osteoarthritis of the knee using cell sheets

3-4-JS5-5	Current status and challenges in meniscus treatment: Preservation using autologous synovial mesenchymal stem cells
3-4-JS5-6	Regeneration of articular cartilage by means of allogeneic iPSC-derived cartilage transplantation
12:00~	13:10 Luncheon seminar 28 Moderator Y. Yoshii
3-4-LS28	Beyond the bones: The science and art of next-generation orthopaedics
13 : 25 ~ The wo	14:45 JOA Directors' proposed symposium 6 Moderators M. Nakamura, H. Akiyama orld of evolving medical DX (digital transformation)
3-4-JS6-1	Development of wearable system based on inertial measurement unit and AI for knee osteoarthritis ············ Takeo Nagura, et al., Dept. of Clinical Biomechanics, Keio Univ.···S381
3-4-JS6-2	AI-assisted diagnostic system for osteoporosis using the X-ray images
3-4-JS6-3	Robotic-assisted surgery and post-operative activity assessment using the patient app for DX knee arthroplasty ·········· Takafumi Hiranaka, Dept. of Orthop. Surg. and Joint Surg. Centre···S382
3-4-JS6-4	Enhancing outcomes in total hip arthroplasty through the utilization of computer: Assisted surgery and smart devices Takeaki Yamamoto, et al., Dept. of Orthop. Surg., St. Marianna Univ. School of Medicine S382
3-4-JS6-5	The role of PHR in healthcare digital transformation for regional healthcare
0 1 300 0	······ Yoshihiro Takahashi, et al., Dept. of Diabetes, Gifu Univ. Hosp.···S383
15:00~	······ Yoshihiro Takahashi, et al., Dept. of Diabetes, Gifu Univ. Hosp.···S383
15:00~	
15 : 00 ∼ You ca	
15:00 ~ You ca 3-4-S50-1	
15:00 ~ You ca 3-4-S50-1 3-4-S50-2	**Toshihiro Takahashi, et al., Dept. of Diabetes, Gifu Univ. Hosp.···S383 16: 20 Symposium 50 Moderators T. Kumai, C. Watanabe n achieve so much! Further possibilities of ultrasound for the musculoskeletal system From the perspective of trauma care: Application of ultrasound in bone healing evaluation and proximal femoral fractures ············ Yohei Sakai, et al., Nagaoka Chuo General Hosp.···S384 Pediatric orthopedist's point of view: Feasibility of ultrasound screening for pediatric hip joints ····································
15:00 ~ You ca 3-4-S50-1 3-4-S50-2 3-4-S50-3	**Yoshihiro Takahashi, et al., Dept. of Diabetes, Gifu Univ. Hosp.···S383 16: 20 Symposium 50 Moderators T. Kumai, C. Watanabe n achieve so much! Further possibilities of ultrasound for the musculoskeletal system From the perspective of trauma care: Application of ultrasound in bone healing evaluation and proximal femoral fractures ············ Yohei Sakai, et al., Nagaoka Chuo General Hosp.···S384 Pediatric orthopedist's point of view: Feasibility of ultrasound screening for pediatric hip joints ····································
15: 00 ~ You ca 3-4-S50-1 3-4-S50-2 3-4-S50-3 3-4-S50-4	**Toshihiro Takahashi, et al., Dept. of Diabetes, Gifu Univ. Hosp.···S383 16: 20 Symposium 50 Moderators T. Kumai, C. Watanabe achieve so much! Further possibilities of ultrasound for the musculoskeletal system From the perspective of trauma care: Application of ultrasound in bone healing evaluation and proximal femoral fractures ***— Yohei Sakai, et al., Nagaoka Chuo General Hosp.···S384 Pediatric orthopedist's point of view: Feasibility of ultrasound screening for pediatric hip joints ***— Kotaro Hoshino, Dept. of Orthop. Surg., Yamane Hosp.···S384 Adaptation and application of ultrasound to hip arthroscopic surgery ***— Shoichi Nishikino, et al., Dept. of Orthop. Surg., Nishikino Clinic···S385 The usefulness of motor echocardiography in routine clinical practice and its social impact ***— Yohei Tanikake, Tanikake Orthop. Clinic···S385 Diagnosis and treatments of shoulder injuries in overhead athletes with ultrasound ***— Masahito Yoshida, et al., Dept. of Musculoskeletal Sports Medicine, Research and Innovation, Nagoya City Univ., Graduate School of Medical Sciences···S386
15: 00 ~ You ca 3-4-S50-1 3-4-S50-2 3-4-S50-3 3-4-S50-4 3-4-S50-5	**Toshihiro Takahashi, et al., Dept. of Diabetes, Gifu Univ. Hosp.···S383 16: 20 Symposium 50 Moderators T. Kumai, C. Watanabe achieve so much! Further possibilities of ultrasound for the musculoskeletal system From the perspective of trauma care: Application of ultrasound in bone healing evaluation and proximal femoral fractures ***— Yohei Sakai, et al., Nagaoka Chuo General Hosp.···S384 Pediatric orthopedist's point of view: Feasibility of ultrasound screening for pediatric hip joints ***— Kotaro Hoshino, Dept. of Orthop. Surg., Yamane Hosp.···S384 Adaptation and application of ultrasound to hip arthroscopic surgery ***— Shoichi Nishikino, et al., Dept. of Orthop. Surg., Nishikino Clinic···S385 The usefulness of motor echocardiography in routine clinical practice and its social impact ***— Yohei Tanikake, Tanikake Orthop. Clinic···S385 Diagnosis and treatments of shoulder injuries in overhead athletes with ultrasound ***— Masahito Yoshida, et al., Dept. of Musculoskeletal Sports Medicine, Research and Innovation, Nagoya City Univ., Graduate School of Medical Sciences···S386
15: 00 ~ You ca 3-4-S50-1 3-4-S50-2 3-4-S50-3 3-4-S50-4 3-4-S50-5	16: 20 Symposium 50 Moderators T. Kumai, C. Watanabe nachieve so much! Further possibilities of ultrasound for the musculoskeletal system From the perspective of trauma care: Application of ultrasound in bone healing evaluation and proximal femoral fractures

3rd Day May 24 Room 5 (TIF, Hall D7)

8:00~9	: 00 Lecture for next generation	1	Moderator H. Haro
3-5-LNG1	Message for young generation: Enco Yoshiharu Kawaguchi, De	uragement for basic and clinical rese ept. of Orthop. Surg., Faculty of Med	
9:15~10	: 15 Lecture for next generation	n 2 (English)	Moderator D. Sakai
3-5-LNG2-1	The 7 secrets of being a high impa	ct researcher ······ <i>Mohit Bhandari</i> , McMaster U	niv., Hamilton, Canada…S390
3-5-LNG2-2	Know-how and exit strategies from	n obtaining grants to writing papers <i>Hideki Sudo</i> , Dept. of Orthop. Surg.,	Hokkaido Univ. Hosp.···S390
10:30 ~ 1	1:30 Lecture for next generation	on 3	Moderator M. Watanabe
3-5-LNG3	How to make your English presentation	ion successful at international meetin Ito, Dept. of Orthop. Surg., NHO Hol	
12:00 ~ 1	3:10 Luncheon seminar 29		Moderator Y. Uchio
3-5-LS29	Treatment options for cartilage injuryKen Okaz		Vomen's Medical UnivS391
13:25~1	, r		ors Y. Tajiri, M. Ikeuchi
Life plan	nning for orthopaedic surgeons: Ad	lvice for young doctors	
3-5-S51-1 3-5-S51-2	Surgical training status of senior resid	······ <i>Hideaki Yoshida,</i> Dept. of Orth dents based on JOANR	op. Surg., Fussa HospS392
3-5-S51-3	Suggestions for young doctors from t	"Tatsuro Karita, et al., Tokyo Metro the perspective of an orthopaedic sur Yoshitaka Shinto, Shinto Orthop. and	geon in
3-5-S51-4		Oda, Dept. of Orthop. Surg., Osaka M	Iinami Medical Center…S393
3-5-S51-5	Recommendations to young doctors to staff physician · · · · · · · · · · · · · · · · · · ·	from the perspective of a female orth Yumi Niizeki, Dept. of Orthop. Surg.,	
15:00 ~ 1 Proposa	6:20 Symposium 52 lls from young doctors: Toward the		M. Tanaka, T. Shimizu
3-5-S52-1	The experience of acquiring a spine s real voices of young orthopaedic su		
3-5-S52-2	Career path in the orthopaedic traum		
3-5-S52-3	Challenges and prospects for orthopa general physician	aedic surgery in community medicinAkihiro Saitsu, Dept. of Ortho	e: Experience as a pp., Jichi Medical UnivS396
3-5-S52-4	Women in orthopaedic surgery, is the orthopaedic surgeon		
3-5-S52-5	The critical role of orthopaedic surge practice and innovation	amura, et al., Dept. of Orthop. Surg., eons in engaging in basic research: B Taku Ebata, et al., Medicine and Graduate School of Med	ridging clinical Dept. of Orthop. Surg.,

3-5-S52-6 What I learned through my research abroad at the University of Florida $16:30 \sim 17:30$ Moderators Y. Takazawa, D. Araki Free papers 41 Knee: Medial meniscus posterior root tear (MPRT) 3-5-1New arthroscopic healing scoring system of medial meniscus posterior root tear ················ Yasumasa Tokumoto, et al., Dept. of Orthop. Surg., Institute of Science Tokyo Hosp.···S398 3-5-2Clinical outcomes and progression of osteoarthritis in natural history of medial meniscus posterior root tear with minimum 2-year follow-up 3-5-3 The postoperative course in patients with poor mid-term outcomes after medial meniscus posterior root repair ······ Yusuke Kamatsuki, et al., Dept. of Orthop. Surg., Okayama Saiseikai General Hosp. ···S399 3-5-4 Circumferential fiber augmentation combined with transtibial pullout repair is more effective than two stitches in reducing meniscal extrusionYuya Kodama, et al., Dept. of Orthop. Surg., Okayama Rosai Hosp...S399 3-5-5 Anteriorly oriented tibial tunnel creation in transtibial pullout repair for medial meniscus posterior root tear worsened postoperative clinical scores Koki Kawada, et al., Dept. of Orthop. Surg., Science of Functional Recovery and Reconstruction, Faculty of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama Univ.···S400 3-5-6 The medial femoral condyle angle is associated with medial meniscus posterior root tear ······· Kensuke Hotta, et al., Dept. of Orthop. Surg., Hamamatsu Univ. School of Medicine···S400 Moderators T. Akiyama, K. Tensho $17:30 \sim 18:30$ Free papers 42 Knee: Osteotomy 3 3-5-7 Large gap volume is a strong risk factor for delayed gap healing after open-wedge high tibial osteotomy Sayako Sakai, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Kyoto Univ. S401 3 - 5 - 8Conformity of the patellofemoral joint after medial opening wedge high tibial osteotomy: A fresh frozen cadaveric study ··· Akihito Kawai, et al., Dept. of Orthop. Surg., Nara Medical Univ. ··· S401 3-5-9 Changes in patellar height sequentially and related factors after closed wedge high tibial osteotomy ······ Tetsuro Ishimatsu, et al., Dept. of Orthop. Surg., Fukuoka Univ. ···S402 3-5-10 Effect of preoperative MRI-based qualitative evaluation on clinical outcomes 2 years after inverted Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ. ··· S402 3 - 5 - 11Long-term survival and predictors of failure in medial opening wedge distal tibial tuberosity osteotomy with hemicallotasis for medial knee osteoarthritisEiichi Nakamura, et al., Dept. of Orthop. Surg., Reha-Center Kumamoto Kaiseikai Hosp...S403 Analysis of factors affecting conversion to TKA after OWHTO 3-5-12 Graduate School of Medical Science, Kyoto Prefectural Univ. of Medicine...\$403 (TIF, Hall D5) 3rd Day **May 24** Room 6 $8:00 \sim 9:00$ Free papers 43 Moderators Y. Miyawaki, K. Higashino Lumbar spine endoscopic surgery 3-6-1 Full endoscopic discectomy for primary and revision surgery of lumbar disc herniation with surgery performed by the same spine surgeon

3-6-2	Evaluation of full-endoscopic transforaminal approach at L5/S1 level using 3D-MRI/CT simulation: Comparative age and gender in 208 cases ··· <i>Tomoya Sato, et al.</i> , Dept. of Orthop. Surg., Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ.···S404
3-6-3	Safety area analysis based on transforaminal approach surgery in degenerative lumbar spondylolisthesis using 3D-MRI/CT fusion images generated by AI technology
3-6-4	Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ.···S405 Comparative study between percutaneous endoscopic transforaminal lumbar interbody fusion and minimally-invasive transforaminal lumbar interbody fusion for degenerative lumbar spine disorders···································
3-6-5	Full-endoscopic trans-Kambin lumbar interbody fusion (FE-KLIF) for lumbar degenerative spondylolisthesis: A 3-year postoperative study
3-6-6	Efficacy and safety of multidrug cocktail injections in postoperative pain management for lumbar microendoscopic surgery: A prospective randomized controlled trial
9:15	~ 10:15 JOA academic encourage award Moderator S. Okada
3-6-AE-2 3-6-AE-3 3-6-AE-4	cartilage defect ····································
10.00	
12:00	~ 13:10 Luncheon seminar 30 Moderator S. Ohtori
3-6-LS30	
3 0 1330	
	$\sim 14:45$ Symposium 53 Moderators H. Ozawa, H. Murakami tment strategies for adult spinal deformity
3-6-S53-	translation technique
3-6-S53-	

3-6-853-3	Circumferential minimally invasive surgery (cMIS) with LIF and all PPS for adult spinal deformity: Changes in the last 10 years
3-6-S53-4	
3-6-S53-5	Hamamatsu Univ. School of Medicine…S411
	······································
	~ 16:20 Symposium 54 Moderators K. Chiba, H. Chikuda cal spine disease treatment in an aging society
3-6-S54-1	Evaluation of neurological function and pain in cervical spine disorders in the elderly: Assessment using electrophysiological methods or AI technology
3-6-S54-2	
3-6-S54-3	Posterior reconstruction of the cervical spine in super aging society: A significance of patient matched guide ···· Itaru Oda, et al., Dept. of Orthop. Surg., Hokkaido Orthop. Memorial Hosp.···S414
3-6-S54-4	Anterior cervical surgery in aging society
3-6-S54-5	
16 : 30 c	~ 17:30 Free papers 44 Adult spinal deformity 1 Moderators K. Kanzaki, K. Miyamoto
3-6-7	Risk analysis of postoperative complications in adult spine deformity surgery using lateral lumbar interbody fusion (LLIF): NSGad study Sadayuki Ito, et al., Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine, Graduate School of Medicine, Nagoya UnivS416
3-6-8	Spine user is a risk factor for PJF in adult spinal deformity correction surgery
3-6-9	The impact of different techniques for L5/S1 on clinical outcomes in CMIS for spinal deformity: OLIF51 vs LLIF ·········Masayuki Ishihara, et al., Dept. of Orthop. Surg., Kansai Medical Univ.···S417
3-6-10	Analysis of the abdominal aorta after corrective fixation for kyphosis in the elderly
3-6-11	Correlation between nutritional status and clinical outcomes in adult spinal deformity surgery using the short-form mini-nutritional assessment (MNA-SF)
3-6-12	Graduate School of Medical Science, Univ. of Yamanashi···S418 Genome-wide association study of lumbar degenerative kyphosis: A multicenter study by 6 universities in Tohoku district
17:30	~ 18:30 Free papers 45 Adult spinal deformity 2 Moderators K. Watanabe, Y. Yamato
3-6-13	The usefulness of global alignment and proportion (GAP) score: Comparison of elderly and non-elderly ····································
3-6-14	Thoracic kyphosis with less degeneration improves alignment naturally by correcting the lumbar spine · · · · · · · · Masayuki Ishihara, et al., Dept. of Orthop. Surg., Kansai Medical Univ. · · S419

3-6-15	Timing of initiation of teripar Yujiro Kagami, et al., 1 Progra	Dept. of Orthop./Rheum			= '				
3-6-16	Correlation between nutritional status assessed by the short-form mini-nutritional assessment (MNA-SF) and spinal alignment in adult spinal deformity surgery								
3-6-17	Surgical techniques for preventional deformity	Graduate enting proximal junctionSatoshi S	School of Medical Science al kyphosis after surgery f uzuki, et al., Dept. of Orth	e, Univ. of Yan for adult op. Surg., Ke	nanashi…S420 io UnivS421				
3-6-18	Deterioration of sagittal bala 3D gait analysis synchronis	zed with electromyograp	ohy						
		3rd Day May 24	Room 7 (TIF, Hal	I D7) On wil	nly sessions marked as "English" Il be conducted in English				
8:00~	9:00 Invited lecture 1	3 (English)		Moderate	or S. Imai				
3-7-IL13-2		Graduate School of I	ofter its introduction Noboru Taniguchi, De Medical and Dental Science	es, Kagoshin	na Univ.···S422				
9:15~	10:15 Invited lecture	14 (English)		Moderate	or H. Niki				
3-7-IL14-1	recent advances in car	tilage regeneration Woo Lee, Dept. of Orthop steochondral lesions of the common terms	ntegies for osteochondral l p. Surg., Yonsei Univ., Seot he talus: challenges, evide asui, et al., Dept. of Orthop	ul, Republic o nce, and o. Surg., Teiky	of Korea…S423 yo UnivS423				
12:00	~ 13:10 Luncheon sem	ninar 31	Me	oderator J.	. Takahashi				
3-7-LS31	Treatment strategy for ose agents and therapeutic eNaohisa Miya	exercise	tures and spinal kyphosis o Surg., Akita Univ. Graduate						
13:25	~ 14:25 Invited lecture	e 15 (English)	Mo	oderator K	. Yamauchi				
3-7-IL15-2	in orthopaedics ·······2 Shaping the future of fer	Jennifer Gree	: A global perspective on wen, Canberra Hand Centre ons in Japan: Leadership ar , Dept. of Orthop. Surg., C	, Canberra, A nd career sup	port				
14:40	~ 15:40 Invited lecture	e 16 (English)		Moderator	N. Oizumi				
3-7-IL16-			Jniv. of California, Davis, S	acramento, C	CA, USA···S427				

3-7-IL16		sity in orthopaedi			ano, Univ. of		an Francisco- Fresno, rg., Fresno, CA, USA…S427
	5 ~ 17 : 15 rent status	Symposium 5 and challenges i		uction of te]	Moderators	T. Miyamoto, T. Endo
3-7-S55-	••••	al digital transforr		············Hi		<i>h,</i> JTTA, Kyor	itsu Memorial Hosp.···S428
3-7-S55-	 3 Diagn		nedical exami	····· <i>T</i>	akashi Hase		Celemedicine Society···S428 without using
3-7-S55-	-4 Use of	···· Satoki Homma AI technology in	, Medical Edu remote medic	al diagnosis			aitama Medical Univ.···S429 aitama Medical Univ.···S429
3-7-S55-	5 Intern	ational remote me	edical educatio	n	o Moriyama	, et al., iMed,	Kyushu Univ. HospS430
	0 ~ 18 : 30 eoporosis: 1	Free papers 4 Miscellaneous	.6		Mod	derators Y.	Sakamoto, T. Fujiwara
3-7-1		stics of high fall ris		_			
3-7-2	Fall fractur	e risk and balance	between oxid	lative stress	and antioxic	lant property	edicine, Showa UnivS431 Jniv. Medical Center…S431
3-7-3	What are	subchondral fragil characteristics?					
3-7-4	Factors for YamaCAI	delayed bone hea Fe extended study	ling in atypica ····· <i>Rikiy</i>	l femur frac va Iwamaru,	tures in Yan <i>et al.,</i> Dept.	nagata prefect of Orthop. So	urg., Nihonkai HospS432
3-7-5	hypophos	ichi Mishima, et al	., Dept. of Ort	hop./Rheur	natology, M	usculoskeleta	l and Cutaneous Surg.,
3-7-6		Progr ICTO in which a nation was effective	ovel variant o				dicine, Nagoya Univ.···S433 lenosumab
				aga, et al., I	Dept. of Orth	iop. Surg., Ku	mamoto Univ. Hosp.···S433
			3rd Day	May 24	Room 8	(TIF, G	701)
	~ 9 : 20 ninking the	Symposium 56 pathophysiology	of lower lim	nb OA (oste		derators G	. Omori, S. Yamaguchi
3-8-S56-			······ Taku S Surgical Se	<i>Saito,</i> Ortho _l	p. Surg., Sen iduate Schoo	sory and Mot ol of Medicine	tor System Medicine, c, The Univ. of Tokyo…S434
3-8-S56- 3-8-S56-	•••••	physiology of early distribution in the		···Haruka K	Kaneko, et al.	, Dept. of Ort	hop., Juntendo Univ.···S434 ment and
	the n	neniscus ······K					on for the Knee Joint, cine, Hokkaido Univ.···S435

3-8-S56-4	Osteoarthritis of the ankle: U	•	· · · · · · · · · · · · · · · · · · ·
3-8-S56-5	Gı Three-dimensional <i>in vivo</i> ki	· Tomoyuki Nakasa, et al., Dept. of Artif raduate School of Biomedical and Healt nematics using CT in patients with varu liroaki Kurokawa, et al., Dept. of Ortho	h Sciences, Hiroshima Univ.···S435 as ankle osteoarthritis
9:35~1	0:35 Invited lecture 17	(English)	Moderator S. Otsuki
3-8-IL17-1 3-8-IL17-2	Evolution of osteotomy arou	nnique and complication management 	nkenhaus, Siegen, Germany…S437 or its development
12:00 ~	13:10 Luncheon semina	nr 32	Moderator M. Ikeuchi
3-8-LS32	clinical result ·····	osteotomies around the knee?: Early re ···· <i>Hiroyasu Ogawa</i> , Dept. of Orthop. So a field of Medical Sciences, Graduate Sc	urg., Div. of Disease Control,
14:40 ~	15:40 Invited lecture 18	(English)	Moderator N. Kawakami
3-8-IL18-1 3-8-IL18-2	severe deformities ········ Early onset scoliosis surger	phosis and its influence on surgical mar ··· S. Rajasekaran, Dept. of Orthop., Gan y in Japan: State of the art and future per footbase. Surge, National Hang, Organization	ga Hosp., Coimbatore, India…S439 erspective
		of Orthop. Surg., National Hosp. Organi	zation Kobe Medical Center···S439
15:55 ~ Optima		Moderator	zation Kobe Medical Center···S439 rs K. Okazaki, H. Nakayama
	17: 15 Symposium 57 I alignment for knee osteoto Optimal alignment in high til	Moderator omy: Is 62% always correct? bial osteotomy based on biomechanical	rs K. Okazaki, H. Nakayama
Optima	17: 15 Symposium 57 Il alignment for knee osteoto Optimal alignment in high til Shinichi Kuriyama, et al. The optimal alignment for Al	Moderator omy: Is 62% always correct? bial osteotomy based on biomechanical ., Dept. of Orthop. Surg., Graduate Scho KO in Europe	analysis ool of Medicine, Kyoto Univ.···S440
Optima 3-8-S57-1	17: 15 Symposium 57 Il alignment for knee osteoto Optimal alignment in high tilShinichi Kuriyama, et al. The optimal alignment for AlHir Appropriate alignment in aro	Moderator omy: Is 62% always correct? bial osteotomy based on biomechanical or, Dept. of Orthop. Surg., Graduate Schook of Europe oshi Nakayama, et al., Dept. of Orthop. ound-knee osteotomies for end-stage me	analysis ool of Medicine, Kyoto UnivS440 Surg., Hyogo Medical UnivS440 edial knee osteoarthritis
Optima 3-8-S57-1 3-8-S57-2	17: 15 Symposium 57 Il alignment for knee osteoto Optimal alignment in high til Shinichi Kuriyama, et al. The optimal alignment for Al	Moderator omy: Is 62% always correct? bial osteotomy based on biomechanical ., Dept. of Orthop. Surg., Graduate Scho KO in Europe oshi Nakayama, et al., Dept. of Orthop. bund-knee osteotomies for end-stage me Ryuichi Nakamura, et al., Dept. of or patients who participate in sports active	analysis ool of Medicine, Kyoto UnivS440 Surg., Hyogo Medical UnivS440 edial knee osteoarthritis Orthop. Surg., Harue HospS441 ivities
Optima 3-8-S57-1 3-8-S57-2 3-8-S57-3	17: 15 Symposium 57 Il alignment for knee osteoto Optimal alignment in high tilShinichi Kuriyama, et al. The optimal alignment for AlHir Appropriate alignment in aro Optimal alignment in AKO foTakehiko Matsushita, et al	Moderator omy: Is 62% always correct? bial osteotomy based on biomechanical of the property of Orthop. Surg., Graduate Schook KO in Europe of Nakayama, et al., Dept. of Orthop. Orthop. ond-knee osteotomies for end-stage merow. Ryuichi Nakamura, et al., Dept. of or patients who participate in sports actively. Dept. of Orthop. Surg., Kobe Univ. Or	analysis ool of Medicine, Kyoto UnivS440 Surg., Hyogo Medical UnivS440 edial knee osteoarthritis Orthop. Surg., Harue HospS441 ivities Graduate School of MedicineS441 of Orthop. and Spinal Surg.,
Optima 3-8-S57-1 3-8-S57-2 3-8-S57-3 3-8-S57-4	17: 15 Symposium 57 Il alignment for knee osteoto Optimal alignment in high tilShinichi Kuriyama, et al. The optimal alignment for AlHir Appropriate alignment in aro Optimal alignment in AKO foTakehiko Matsushita, et al Alignment of AKO for preser	Moderator omy: Is 62% always correct? bial osteotomy based on biomechanical of the property of Orthop. Surg., Graduate Schook KO in Europe of Nakayama, et al., Dept. of Orthop. Ound-knee osteotomies for end-stage merow. Ryuichi Nakamura, et al., Dept. of or patients who participate in sports actively. Dept. of Orthop. Surg., Kobe Univ. Or vation of meniscus function Masaki Amemiya, et al., Dept. of School of Medical and Dental Sciences.	analysis ool of Medicine, Kyoto UnivS440 Surg., Hyogo Medical UnivS440 edial knee osteoarthritis Orthop. Surg., Harue HospS441 ivities Graduate School of MedicineS441 of Orthop. and Spinal Surg.,
Optima 3-8-S57-1 3-8-S57-2 3-8-S57-3 3-8-S57-4 3-8-S57-5	17: 15 Symposium 57 Il alignment for knee osteoto Optimal alignment in high til Shinichi Kuriyama, et al. The optimal alignment for Al	Moderator omy: Is 62% always correct? bial osteotomy based on biomechanical of the property of Orthop. Surg., Graduate Schook KO in Europe of Nakayama, et al., Dept. of Orthop. Ound-knee osteotomies for end-stage merow. Ryuichi Nakamura, et al., Dept. of or patients who participate in sports actively. Dept. of Orthop. Surg., Kobe Univ. Or vation of meniscus function Masaki Amemiya, et al., Dept. of School of Medical and Dental Sciences.	analysis ool of Medicine, Kyoto UnivS440 Surg., Hyogo Medical UnivS440 edial knee osteoarthritis Orthop. Surg., Harue HospS441 ivities Graduate School of MedicineS441 of Orthop. and Spinal Surg., s, Institute of Science TokyoS442 Moderator N. Kamei
Optima 3-8-S57-1 3-8-S57-2 3-8-S57-3 3-8-S57-4 3-8-S57-5	17: 15 Symposium 57 Il alignment for knee osteoto Optimal alignment in high tilShinichi Kuriyama, et al. The optimal alignment for AlHin Appropriate alignment in aro Optimal alignment in AKO foTakehiko Matsushita, et al Alignment of AKO for presen Graduate Biological therapies in osteoal	Moderator omy: Is 62% always correct? bial osteotomy based on biomechanical ., Dept. of Orthop. Surg., Graduate Scho KO in Europe oshi Nakayama, et al., Dept. of Orthop. ound-knee osteotomies for end-stage me Ryuichi Nakamura, et al., Dept. of or patients who participate in sports acti, Dept. of Orthop. Surg., Kobe Univ. Or rvation of meniscus function	analysis ool of Medicine, Kyoto UnivS440 Surg., Hyogo Medical UnivS440 edial knee osteoarthritis Orthop. Surg., Harue HospS441 ivities Graduate School of MedicineS441 of Orthop. and Spinal Surg., s, Institute of Science TokyoS442 Moderator N. Kamei

3–9–S58–1 Results and findings of angulated innominate osteotomy: Pelvic osteotomy without bone grafting · · · · · · · · Daisuke Takahashi, et al., Dept. of Orthop. Surg., Hokkaido Univ. Hosp. · · · S444

3-9-S58-2	Current status and future of rotational acetabular of	•						
3-9-S58-3	and future challenges ····································							
3-9-S58-4	Curved periacetabular osteotomy: Inheritance and							
3-9-S58-5	Transtrochanteric rotational osteotomy of the femo-							
9:35~1	0:35 Invited lecture 19 (English)	Moderator N. Kaku						
3-9-IL19-1 3-9-IL19-2	Evolving hip arthroscopic management for hip ca	Alan Zhang, Univ. of California, San Francisco, ept. of Orthop. Surg., San Francisco, CA, USA···S447 psular management and labral preservation						
12:00~	13:10 Luncheon seminar 33	Moderator S. Momohara						
3-9-LS33	Recent trends in rheumatoid arthritis treatment that aware of ·····							
	aware or	Graduate School of Medicine, Osaka UnivS448						
14:40~								
14:40 ~ 3-9-AS3-1	15:40 Afternoon seminar 3 Prevention of SSI in orthopaedic surgery	Moderator S. Matsuda Nonmin Choe, et al., Musculoskeletal Science, hama City Univ. Graduate School of Medicine…S449						
	15:40 Afternoon seminar 3 Prevention of SSI in orthopaedic surgery Yoko Small habits to improve clinical outcomes in robot	Moderator S. Matsuda Nonmin Choe, et al., Musculoskeletal Science, hama City Univ. Graduate School of Medicine…S449						
3-9-AS3-1 3-9-AS3-2 15:55~	15:40 Afternoon seminar 3 Prevention of SSI in orthopaedic surgery	Moderator S. Matsuda Myonmin Choe, et al., Musculoskeletal Science, hama City Univ. Graduate School of MedicineS449 ic-arm assisted total knee arthroplasty nima, Dept. of Orthop. Surg., Yonemori HospS449 Moderators A. Okawa, Y. Inaba						
3-9-AS3-1 3-9-AS3-2 15:55~	15:40 Afternoon seminar 3 Prevention of SSI in orthopaedic surgery F. Yoko Small habits to improve clinical outcomes in robot Masaki Mizusl 17:15 Symposium 59 ent strategies for peri-implant infections after in Treatment strategy for recurrent SSI after spinal in	Moderator S. Matsuda Nonmin Choe, et al., Musculoskeletal Science, hama City Univ. Graduate School of MedicineS449 ic-arm assisted total knee arthroplasty nima, Dept. of Orthop. Surg., Yonemori HospS449 Moderators A. Okawa, Y. Inaba ditial treatment failure						
3-9-AS3-1 3-9-AS3-2 15:55 ~ Treatm	Prevention of SSI in orthopaedic surgery	Moderator S. Matsuda Nonmin Choe, et al., Musculoskeletal Science, hama City Univ. Graduate School of MedicineS449 ic-arm assisted total knee arthroplasty nima, Dept. of Orthop. Surg., Yonemori HospS449 Moderators A. Okawa, Y. Inaba nitial treatment failure Instrumentation SSIsKoji Yamada, et al., Nakanoshima OrthopS450 areatment of nontuberculous mycobacterial						
3-9-AS3-1 3-9-AS3-2 15:55 ~ Treatm 3-9-S59-1	Prevention of SSI in orthopaedic surgery	Moderator S. Matsuda Nonmin Choe, et al., Musculoskeletal Science, hama City Univ. Graduate School of MedicineS449 ic-arm assisted total knee arthroplasty nima, Dept. of Orthop. Surg., Yonemori HospS449 Moderators A. Okawa, Y. Inaba ditial treatment failure Instrumentation SSIs Koji Yamada, et al., Nakanoshima OrthopS450 creatment of nontuberculous mycobacterial ept. of Orthop. Surg., Wajo-kai Sapporo HospS450 periprosthetic joint infections (PJI) in hip Hyonmin Choe, Musculoskeletal Science,						
3-9-AS3-1 3-9-AS3-2 15:55 ~ Treatm 3-9-S59-1 3-9-S59-2	Prevention of SSI in orthopaedic surgery	Moderator S. Matsuda Nonmin Choe, et al., Musculoskeletal Science, hama City Univ. Graduate School of MedicineS449 ic-arm assisted total knee arthroplasty nima, Dept. of Orthop. Surg., Yonemori HospS449 Moderators A. Okawa, Y. Inaba ditial treatment failure Instrumentation SSIs Koji Yamada, et al., Nakanoshima OrthopS450 creatment of nontuberculous mycobacterial ept. of Orthop. Surg., Wajo-kai Sapporo HospS450 periprosthetic joint infections (PJI) in hip Hyonmin Choe, Musculoskeletal Science, hama City Univ. Graduate School of MedicineS451						
3-9-AS3-1 3-9-AS3-2 15:55 ~ Treatm 3-9-S59-1 3-9-S59-2 3-9-S59-3	Prevention of SSI in orthopaedic surgery	Moderator S. Matsuda Nonmin Choe, et al., Musculoskeletal Science, hama City Univ. Graduate School of MedicineS449 ic-arm assisted total knee arthroplasty nima, Dept. of Orthop. Surg., Yonemori HospS449 Moderators A. Okawa, Y. Inaba nitial treatment failure Instrumentation SSIs W. Koji Yamada, et al., Nakanoshima OrthopS450 periprosthetic joint infections (PJI) in hip W. Hyonmin Choe, Musculoskeletal Science, hama City Univ. Graduate School of MedicineS451 nt of fracture related infection Surg., Harima Himeji General Medical CenterS451						

17:3	30 ~ 18 : 30 Free pa	pers 47 I	Infection	: Epidemio	ology	Moderator	s S. Tanishima	, G. Kumagai
3-9-1	Is the natural course of complications following	ng primary	total hip	arthroplasty	y?			
							et at., Dept. of Orti cal Sciences, Kanaz	
3-9-2	Chronological change	s of bacteri	al incider					awa UIIIv. 343.
002	······································							ion Hosp.···S45
3-9-3	Cervical pyogenic spo							
3-9-4	Risk factors for surgic							
	·····Yohei	Takahashi,	, et al., D	ept. of Orth	op. Su	rg., Japanese	e Red Cross, Shizu	oka HospS45
3-9-5	The impact of frailty o				-			
	·····Takaki Kita							
3-9-6	Investigation of PCR g							
	by tissue, site, and st	rain ····· Yu	uta Hieda	, et al., Dep	t. of O	rthop. Surg.	, Yokohama City U	niv. HospS455
		3r	d Day	May 24	Roc	om 10	(TIF, G610)	
8:00) ~ 9 : 00 Instruction	onal lectur	e 46				Moderator	S. Demura
3-10-E	I 16 Which operative	procedure	to choose	e for the tres	atmen	t of vertebra	l deformity due to	
J 10 E	osteoporotic fr		to choose	of the tree	aumen	t of vertebra	deformity due to	
	_		ori Saito	. et al Dept	t. of O	rthop, Surg.,	Kansai Medical U	niv. Hosp.···S456
0 · 1		ional lectu				- 11 3.,		T. Tachibana
							Moderator	1. Tacmbana
3-10-E								
0 10 E							lo Spinal Cord Inju	
3-10-E	L47-2 Database for s	pinai cord ii	njury ····		• • • • • • • •	····Hiroani	Sakai, Spinal Injuri	es Center…S45
10:3	30 ~ 11 ∶ 30 Free pa	pers 48				Mod	derators H. Kon	ishi, K. Mori
Sp	inal cord injury/ligam	entous oss	sification	ı				
3-10-1	Synergistic effects of	f visceral fat	t and obe	sity are stro	ngly ii	mplicated in	the pathogenesis o	of
	Japanese ossificatio					-	F8	
						omoya Sato,	et al., Dept. of Ortl	nop. Surg.,
							of Medicine, Hokk	
3-10-2	Residual postoperativ	ve neuropat	thic pain o	control is im	porta	nt for patient	s returning to wor	k after
	cervical OPLL surg	ery: JOSL s	study					
	•••••	·····Kanji	i Mori, et	al., Dept. of	Orth	op. Surg., Sh	iga Univ. of Medic	al Science…S458
3-10-3	Prevalence and etiolo	ogy of diffus	se idiopat	thic skeletal	hyper	rostosis (DIS	in elderly comr	nunity
	residents: Bunkyo l							
3-10-4	Methylprednisolone			nproved neu	rologi	ical recovery	and reduced comp	plications
	in severe cervical	-						
3-10-5	Clinical and imaging							
	undergoing lumbar	-	-				· -	
		Fac	culty of M	ledicine and	Grad	uate School	of Medicine, Hokk	aido UnivS460

	Graduate School of Biomedical and Health S	Sciences, Hiroshim	a UnivS46
12:00~	13:10 Luncheon seminar 34	Moderator	G. Inoue
3-10-LS34- 3-10-LS34-		Med., Sapporo Med ord injury	d UnivS46
13 : 25 ~ Spine	* 14:25 Free papers 49 Moderators & spinal cord tumor/spinal monitoring	Y. Fujiwara, H.	Nakajima
3-10-7	Surgical strategy for metastatic spinal tumors based on spinal instability patient-reported outcomes: JASA multicenter prospective study	d Rehabilitation Me	edicine,
3-10-8	Faculty of Medica Can preoperative MRI differentiate intradural extension of spinal dumbbe using the 'dural deviation ratio'	ll Sciences, Univ. of ell tumors?: Verifica	
3-10-9		dontoid pseudotum ul., Dept. of Orthop	or . Surg.,
3-10-10	Intraoperative neurophysiological monitoring for thoracic metastatic turn WG multicenter study ····································	ors: JSSR monitori of Orthop./Rheuma	ng atology, edicine,
3-10-11	Relationship between MRI findings and motor evoked potentials in cervice Using MRI contrast ratio and CMCT···································	cal myelopathy: ul., Dept. of Orthop	. Surg.,
3-10-12	Evaluating neural activity at the intervertebral foramen after lateral femo saphenous nerve stimulation using magnetospinography	Orthop. and Spina	l Surg.,
14:40~	15:40 Afternoon seminar 4	Moderator	Y. Minoda
3-10-AS4-1 3-10-AS4-2	······Kazu Mats	rspectives including	g
15:55 ~ Total 1	17:15 Symposium 60 Mod nanagement of osteoarthritis of the hip	lerators T. Jinno	, N. Kaku
3-10-S60-1 3-10-S60-2			

3-10-S60-		noroacetbular impin	_	-		t of Orthon	Cura Vitaa	oto Univ\$467	
3-10-S60-									
3-10-S60-	for	relationship between treatment Toshiyuki Ko		ritis of the h	ip and spinal b	oalance: Cor	nsiderations		
17:30	~ 18:30	Instructional	lecture 48				Moderator	A. Kaneuji	
3-10-EL4		term results of hyb						cal UnivS469	
			3rd Day	May 24	Room 11	(TIF,	G502)		
8:00 ~	~ 9:00	Free papers 50	THA: Resu	lts	М	oderators	Y. Miura, I	N. Hirasawa	
3-11-1 3-11-2 3-11-3 3-11-4 3-11-5 3-11-6	Utility va from the Evaluation	esults of Charnley´	et al., Dept. et al., Dept. et al., Dept. et one ye of EQ-5D-5L Tomohiro at affecting portal affecting	Yoshizawa, post-patient sections: School of Bio arthroplast Ken Iwa hip arthrop Hiroki Wak herapy for Codern ceme	et al., Dept. of atisfaction in to the tribute in THA per atisfaction in to the tribute in the t	Medical and patients: Uti f Orthop. Su otal hip artheta, et al., I Health Scien ecure-fit stet. of Orthop average of 1 l., Dept. of Mniv. Gradual ishi, et al., I hinkeigeka J	Pharmaceuticulty values de arg., Univ. of aroplasty Dept. of Orthonces, Hiroshinem Surg., Kaga 3 years after Musculoskele te School of Moept. of Orthoncenkannkinail	rived Tsukuba···S470 pp. Surg., ma Univ.···S471 wa Univ.···S471 5 years tal Surg., Medicine···S472 pp. Surg., ka Hosp.···S472	
9:15 ~	~ 10 : 15	Free papers 51	THA: Cup	1	N	Ioderators	Y. Harada	, M. Akutsu	
3-11-7	_	rison of direct anter ing pelvic osteotom		-				-	
3-11-8	Intraope	erative pelvic rotation	on in direct a	nterior appr	oach total hip	arthroplast	y using a		
3-11-9	Long te	rm results over 10 y	years of FL-R	socket					
3-11-10	Effects portal	of intraoperative people hip navigation sy	elvic motion o ystem	n measuren	nent accuracy	of augment	ed reality-bas	sed	
3-11-11	Analysis	s of the safe zone for Takamitsu Sato,	r acetabular	cup screws	using 3D CT i	maging			
3-11-12	A novel	free-hand method on total hip arthrop	using fluoros	copic templ	ating for accur	ate cup plac	cement in sur	oine	

10:30 ~	- 11 : 30	Free papers 52	THA: Complication	Moderators	H. Ohashi, K. Oe
3-11-13	femoral	neck fracture in der	direct anterior approach with the mentia ···········Ryuji Okuno, e	et al., Dept. of Orthop.	, Juntendo Univ.···S476
3-11-14	hip arth	roplasty ·····	incontinence in patients with or	et al., Dept. of Orthop	
3-11-15			ostoperative DVT occurrence?: A suyuki Omichi, et al., Dept. of O		ma Muni. Hosp.···S477
3-11-16			patients prior to total hip arthro		
3-11-17			g in total hip arthroplasty for hip ing using finite element analysis		ubtrochanteric
3-11-18	The Hour	nsfield unit value of s in MIS-THA ······	Koshiro Shimasaki, et al., De the greater trochanter influence Ryuichiro ence of Functional Recovery and	es the risk of greater to Okuda, et al., Dept. of Reconstruction, Fac	rochanteric of Orthop. Surg., ulty of Medicine,
			Dentistry, and Pha	rmaceutical Sciences	, Okayama Univ.···S478
12:00 ~	- 13:10	Luncheon semin	nar 35	Modera	tor Y. Nakashima
3-11-LS35			nanagement in the orthopaedic ····································		ni Orthop. HospS479
13:25 ~	- 14:25	Free papers 53	THA: Sagittal balance	Moderators A	A. Sato, T. Hayama
3-11-19 3-11-20	classificKok Preoperat mobility	ation in total hip art i Abe, et al., Muscul tive hip range of mo after total hip arthr	oskeletal Science, Yokohama Ci tion and sagittal global alignmen	ity Univ. Graduate Sch nt impacts spinopelvic	nool of Medicine…S480 e alignment and
3-11-21	A study o	f changes in sagittal	vertical axis on total hip arthro L, Dept. of Orthop. Surg., Tohol	plasty	
3-11-22		_	pelvic obliquity after THATakehiro Ka Yamague		of Orthop. Surg., Medical Center…S481
3-11-23	hip arth	roplasty?	nical degenerative lumbar spond al., Dept. of Orthop. Surg., Grad		
3-11-24	Subluxati	on sign in the patier	nts after total hip arthroplastyYoungwoo Kim, et al., Dep		
15 : 55 ~ Clinic		Symposium 61 tion of EMS (elect	rical muscle stimulation)	Moderators Y. Hos	shino, K. Takeshita
3-11-S61-1			S to the rehabilitation of viscera Masahiro Kohzuki, Yamagat		Health Sciences···S483
3-11-S61-2	••••		py in clinical applications ······ <i>Toru Ogata</i> , Rehabilita		of Tokyo Hosp.···S483
3-11-S61-3			e stimulation on the joint contra a, Institute of Biomedical Science		, Nagasaki Univ.···S484

3-11-S61-4 The necessity of increasing activity level and clinical application of electrical $17:30 \sim 18:30$ Moderators H. Hashizume, Y. Kobayashi Free papers 54 Wrist & finger fractures 3-11-25 Reduction parameters of distal radius fracture using 3D vectors ·······Yuichi Yoshii, et al., Dept. of Orthop. Surg., Tokyo Medical Univ. Ibaraki Medical Center···S485 3-11-26Dorsiflexion casting prevents dislocation of Colles fractures: A finite element analysis study Tatsuki Kobayashi, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Chiba Univ. S485 3-11-27 Investigation of relationship between volar tilt and volar lunate deviation after surgical treatment of distal radius fracture Daichi Sakamoto, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Kyoto Univ. .. \$486 3-11-28 Comparison of the frequency of complications associated with volar locking plate fixation for distal radius fractures 3 - 11 - 29Results of treatment for scaphoid nonunion with a minimally invasive surgical technique 3-11-30 Method and usefulness of volar compression pinning for dorsal interphalangeal joint fracture dislocation ····· Tatsuya Kunimoto, et al., Japanese Red Cross Society Kyoto Daini Hosp.···S487 TIF, G402) 3rd Day May 24 Room 12 $8:00 \sim 9:00$ Instructional lecture 49 Moderator S. Yamazaki 3-12-EL49 Treatment strategies for fracture-related infections: Tips, tricks, and traps for success with the Papineau technique, Ilizarov method, and Masquelet technique $9:15 \sim 10:15$ **Instructional lecture 50** Moderator H. Yamada 3-12-EL50 New developments in postoperative pain management: From chronic phase to acute phase $10:30 \sim 11:30$ Free papers 55 Moderators N. Hidaka, S. Iwabu Upper limb fractures/microsurgery 3-12-1 Prognosis and influencing factors in surgical cases of proximal humerus fractures 3-12-2Pathobiomechanics of proximal humeral fracture: A simulation study using 3-dimensional finite element method ······ Hirotaka Sano, et al., Div. of Orthop., Sendai City Hosp. ··· S489 3-12-3Predictors causing complications in cubitus varus deformity after supracondylar fracture Graduate School of Medicine, Osaka Univ. · · · S490 3-12-4 Acceptable range of forearm deformity derived from relation to 3D analysis and clinical impairments in malunited diaphyseal both-bone forearm fracturesRyoya Shiode, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Osaka Univ....S490 3-12-5 Utility of the superficial femoral artery as a recipient vessel in free flap knee reconstruction 3-12-6Total management for acute phase of traumatic popliteal artery injuryYuta Izawa, et al., Trauma Center, Shonan Kamakura General Hosp...S491

12:00 ~	~ 13:10	Luncheon seminar 36		Moderator	Y. Mikami
3-12-LS36		eatments for autoimmune peripheral			
		Free papers 56 d surgery & AI	Moderator	s S. Takahas	hi, K. Sato
3-12-7	ossificatio	diagnosis system for thoracic poster n of the ligamentum flavum on X-ray ayuki Ito, et al., Dept. of Orthop./Rho Program in Integrated Med	s using deep learning	al and Cutaneou	
3-12-8	spondylot	nt and clinical application of an AI-ba ic amyotrophy e Ichihara, et al., Dept. of Orthop. Su:	sed prognostic model for pr	oximal-type cer	vical
3-12-9	Prediction of	of vertebral rotation angle in adolesconal neural networks ·····	ent idiopathic scoliosis using	g deep learning Dept. of Orthop	with o. Surg.,
3-12-10	_	an artificial intelligence system to ca d images ·········Hiroyuki Oka, et al	lculate whole-body skeletal	muscle mass fro I System Develo	om opment,
3-12-11		rtebroplasty training systemTaiga Tai			
3-12-12	Validation of using cada	of robotically-assisted patella tracking	in total knee arthroplasty:	A biomechanics	study
14:40 ~	~ 15 : 40	Instructional lecture 51		Moderator	K. Nishida
14:40 ~ 3-12-EL51 3-12-EL51	-1 Compo	Instructional lecture 51 etencies required for supervising physical education research ·····Sayaka Oikawa, Dept. of Innovatial education with XR technology		erspectives fron	1
3-12-EL51	-1 Component medi	etencies required for supervising physical education researchSayaka Oikawa, Dept. of Innovat	ive and Digitalized Medical	erspectives from	n ta UnivS496
3-12-EL51 3-12-EL51 15:55 ~	-1 Componed:2 Medic2 -2 T7: 15	etencies required for supervising photical education researchSayaka Oikawa, Dept. of Innovatal education with XR technology	ive and Digitalized Medical	erspectives fron Education, Akit thop. Surg., Sag	n ta UnivS496 ga UnivS496
3-12-EL51 3-12-EL51 15:55 ~	-1 Componed medicon2 Medicon2 17: 15 v standard for the stand	etencies required for supervising physical education research Sayaka Oikawa, Dept. of Innovatal education with XR technology Tadan Symposium 62	tsugu Morimoto, Dept. of Or Moderators on studying medical education	Education, Aking thop. Surg., Sagn. Taneichi, S	ta Univ.···S496 ga Univ.···S496 5. Imagama
3-12-EL51 3-12-EL51 15:55 ~ A new	-1 Componed medicon2 Medicon2 17: 15 v standard for the st	etencies required for supervising physical education research Sayaka Oikawa, Dept. of Innovational education with XR technology Tadam Symposium 62 or training spine surgeons we surgical education: From a surgeon age to the next generation of spine surges: Demonic hand and Buddhist hea	ive and Digitalized Medical sugu Morimoto, Dept. of Or Moderators on studying medical education Hideki Takami, Dept. of Sur urgeons: My attitude toward	Education, Akit thop. Surg., Sag H. Taneichi, S on g., Nagoya Univ	ta Univ.···S496 ga Univ.···S496 6. Imagama 7. Hosp.···S497 inal
3-12-EL51 3-12-EL51 15:55 ^ A new 3-12-S62-1	-1 Componed medicular medi	etencies required for supervising physical education research Sayaka Oikawa, Dept. of Innovatival education with XR technology Tadam Symposium 62 or training spine surgeons we surgical education: From a surgeon age to the next generation of spine surgest to the next generation of spine surgest beautiful and and Buddhist hea Yukihiro Matsuyama, Dept. of Ordortance of cadaver surgical training	moderators Moderators In studying medical education studying medical education studying: My attitude toward art of thop. Surg., Hamamatsu Unfor spine surgeons	Education, Akit thop. Surg., Sag H. Taneichi, S on g., Nagoya Univ ls intractable spi	ta Univ.···S496 ga Univ.···S496 6. Imagama 7. Hosp.···S497 inal
3-12-EL51 3-12-EL51 15:55 ~ A new 3-12-S62-1 3-12-S62-2	-1 Componed medicular -1 -1 Medicular -2 Medicular -2 -17:15 w standard for 1 Attractivular -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	etencies required for supervising physical education research Sayaka Oikawa, Dept. of Innovatival education with XR technology Tadata Symposium 62 or training spine surgeons we surgical education: From a surgeon age to the next generation of spine surges: Demonic hand and Buddhist hea Yukihiro Matsuyama, Dept. of One oortance of cadaver surgical training Hiroshi Moridaira, et urgery training in the animal laborate Hiroshi Miroshi	Moderators Moderators In studying medical education Hideki Takami, Dept. of Surargeons: My attitude toward art of spine surgeons al., Dept. of Orthop. Surg., pry	Education, Akit thop. Surg., Sag H. Taneichi, S on g., Nagoya Univ s intractable spi niv. School of M Dokkyo Medica Orthop./Rheum in Integrated M	ta UnivS496 ga UnivS496 f. Imagama 7. HospS497 inal edicineS497 al UnivS498 atology, edicine,

17 . 30	- 10 · 30 II	isu ucuonai i	lecture 32				Moderator	K. Goto
3–12–EL52 Current status and future perspectives of computer technologies in orthopaedic surgery <i>Masaki Takao, et al.</i> , Dept. of Orthop. Surg., Ehime Univ. Graduate School of Medicine S500								
			3rd Day	May 24	Room 13	TIF,	G409)	
8:00~	9:00 Inst	tructional lec	cture 53				Moderator	K. Fujita
3-13-EL53	_		·····Mich				ement & Hand	
9:15~	· 10: 15 Ins	structional le	ecture 54			M	Ioderator T.	Kunisada
3-13-EL54	•	-	-	_	in orthopaedic o <i>Oda,</i> Dept. of		Pathol., Kyushu	Univ.···S501
10:30	~ 11 : 30 F	ree papers 5	7 Tumor: N	Miscellane	ous M	oderators	H. Futani, T.	Akiyama
3-13-1	An open-label Real-world exp	phase II stud perience of sel atosis 1: A sing	y ···· <i>Yoshihiro</i> umetinib for gle-center and	<i>Nishida, et d</i> plexiform n alysis	al., Dept. of Re	habilitation n pediatric	l-type fibromato , Nagoya Univ. patients with , Nagoya Univ.	Hosp.···S502
3-13-3	Issue of the for	llow-up for pat toki Oike, et al f genetic testir	ients with ne ., Div. of Orth Niig ng methods fo	urofibromat nop. Surg., I gata Univ. G or detecting	tosis type 1 Dept. of Regeneraduate School GNAS variant	erative and ' of Medical s in intramu	Transplant Me and Dental Sci ascular myxom Surg., Shinshu	dicine, iences…S503
3-13-5 3-13-6	Single cell and Y Risk factors of	l spatial transc To Kimura, et a post-operative	riptomic analal., Div. of Cel e fracture afte	lysis of gian Ilular Signal er curettage	t cell tumor of ing, National C for giant-cell r	bone Cancer Cent ich bone tu	er Research In	stitute···S504
12:00	~ 13 : 10 L	uncheon sen	ninar 37				Moderator I	H. Hagino
3-13-LS37	' Osteoporo	sis treatment	····Sakae Tai	naka, Ortho	p. Surg., Sens	ory and Mo	tor System Me	dicine,
13:25	~ 14:25 F	ree papers 5	8 Tumor: N	Metastatic	disease Mo	oderators	H. Sugiura, I	K. Honoki
3-13-7 3-13-8	What was theLiuzh	he outcome? he Zhang, et al	., Dept. of Or	thop. Surg.		Tokyo Hosp	wall sarcoma: ., The Univ. of of metastatic	Гоkyo…S506
3-13-9	spinal tumo Number of fu	rs······ usion segment	s in MISt sur	iroshi Uei, e gery for spi rokatsu Saw	t al., Dept. of C nal metastases ada, et al., Dep	orthop. Surg	g., Nihon Univ. p. Surg., Nihon	
3-13-10		one metastasis				Dept. of Ort	thop., Juntendo	Univ.···S507

Moderator K. Goto

	Prognostic factors in patients with bone metastasis of renal checkpoint inhibitors		
	······ Yuki Ishibashi, et al., Dept. of Orthop. Surg., The U		
	Should contrast medium be used in whole-body CT for ske		
	origin at the initial visit? · · · · · · · Toshio Kojima, et	al., Dept. of Orthop. Surg.,	Nihon Univ.···S508
14:40~1	15:40 Instructional lecture 55	Moderator	T. Matsushita
3-13-EL55-1	····· Takayuki Furumatsu, Dept. of Or	thop. Surg., Okayama Red	Cross HospS509
3-13-EL55-2	· · · · · · · · · · · · · · · · · · ·		
	······································		
	Graduate School of Medical and Der	ital Sciences, Institute of Sci	ience Tokyo…S509
15:55~1	17:15 Symposium 63	Moderators H. Yama	shita, S. Murai
Recent	challenges in traffic accident treatment		
3-13-S63-1	Considerations for transferring traffic accident patients and for receiving referrals from clinics	_	
	·····Shigeru Harada, Dept. o	of Orthop. Surg., Tsukubaga	kuen HospS510
3-13-S63-2	Problems with bodily injury indemnity actual-cost cover		
	insurance bundling ····· Katsu		=
3-13-S63-3	Post-traumatic dropped head syndrome and persistent e		-
3-13-S63-4	Medical documents, the importance, the indispensability	-	
	·····Kohei Yashima, General		ion of Japan…S511
3-13-S63-5	Response to non-life insurance intervention during the		T 000 0540
	<i>N</i>	<i>lamoru Hanari,</i> Hibiki Sogo	Law Office···S512
17:30~1	18:30 Free papers 59 Pelvic fracture	Moderators T. M	Iae, Y. Kokubo
3-13-13	Development and external validation of an AI for diagnosin	g sacral fractures from plair	1
	radiographs: A multicenter study ············Naoy		
	The Kashiwa Hos	sp. of the Jikei Univ. School	of Medicine…S513
3-13-14	Quantitative evaluation of bone marrow edema in dual-ener	rgy CT (DECT) for sacral fr	actures and
	its clinical significance · · · · · · · Takahiro Oda, et al., Dep	pt. of Orthop. Surg., Nishino	omiya HospS513
3-13-15 H	Hip position influences the susceptibility to Rommens type		
	caused by lateral falls ············Kunihiko Arakawa, et a		Геіkyo UnivS514
3-13-16 H	History of fragility fracture network Japan and national hip		
	Noriaki Yamamoto, et al., Dept.		
3-13-17	Outcome and complications of acetabular fracture open sur		
9_19_10	observational study		генкуо UnivS515
3-13-18 F	Finite element analysis of internal fixation methods in pelvi		of Medicine\$515