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

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

4th Day May 25 Room 1 (TIF, Hall A) Only sessions marked as "English" will be conducted in English.

		will be conducted in Englis
8:00~9	: 00 Invited lecture 20 (English)	Moderator S. Tanaka
4-1-IL20-1	How is technology helping us in advancing hip surge	ery?
	······Vikas O. Khan	nduja, Cambridge Young Adult Hip Service,
		Addenbrooke's Hosp., Cambridge, UK···S516
4-1-IL20-2	Femoral osteotomies for osteonecrosis of the femoral	al head: The identity of Japanese
	hip surgery ······ Goro Motomura	a, Dept. of Orthop. Surg., Clinical Medicine,
	Graduate	e School of Medical Sciences, Kyushu Univ.···S516
9:05~10	0:05 Instructional lecture 56	Moderator H. Takahashi
4-1-EL56	The current status and future of minimally invasive sp	oinal treatment (MIST)
10:10 ~ 1	11:30 Symposium 64	Moderators M. Matsumoto, S. Demura
Treatme	ent strategies for pediatric scoliosis	
4-1-S64-1	The status of equipment-based school screening for s	scoliosis at Nara city and its importance
	····· Hideki Shigematsu, et al.,	
4-1-S64-2	Long-term outcomes in patients with nonoperatively t	
	······Masayuki Ohashi, et al., Div.	of Orthop. Surg., Dept. of Regenerative and
	Transplant Medicine, Niigata Univ. Gradu	nate School of Medical and Dental Sciences…S518
4-1-S64-3	Long-term outcome of adolescent idiopathic scoliosis	surgery
	······ Tsutomu Akazawa, et al., Dept. of Orthop. Su	
4-1-S64-4	Four-dimensional spinal reconstruction using anatom	
	idiopathic scoliosis · · · · · · · · · · · · Hideki Sudo, De	
4-1-S64-5	The complications associated with pediatric spinal de	
	and management · · · · · · · · · · · · · · · · · · ·	
4-1-S64-6		d Hosp. Organization Kobe Medical Center···S519
4-1-504-0	Treatment strategies for severe spinal deformities in	
		. & Spine Surg., Fukuoka Ciniuren 8 1108p 5520
12:00 ~ 1	13:10 Luncheon seminar 38	Moderator T. Tomita
4-1-LS38-1	Role of orthopaedic surgeons in the treatment of axi	ial spondyloarthritis
	·····Kenji Kishimoto, Dept. of Orthop./Rheumatol	
	Program in Integrated Medicine, (	Graduate School of Medicine, Nagoya Univ.···S520
4-1-LS38-2	The role of the orthopaedics in the management of	
	·····Tadashi Okano	, Center for Senile Degenerative Disorders,
	Osaka Metro	opolitan Univ. Graduate School of Medicine…S521

## $14:40\sim15:40$ Seminar for the physician teaching and managing the pediatric musculoskeletal disease Moderator H. Kitoh

Requirements and diseases for pediatric musculoskeletal disease management fees

### 4th Day May 25 Room 2

8:00	~ 9:00 Instructional lecture 57	Moderator H. Ito		
4-2-EL5	Perioperative prevention and treatment of infections following total hip as			
9:15	~ 10:15 Instructional lecture 58	Moderator M. Doita		
4-2-EL58	Comprehensive treatment for the patients with chronic low back pain and From conservative treatment to surgical one			
10:30	0 ~ 11 ∶ 30 Instructional lecture 59	Moderator M. Akagi		
4-2-EL59	Current status and innovations in total knee arthroplastyShuichi Matsuda, Dept. of Orthop. Surg., Graduate School of	of Medicine, Kyoto Univ.···S523		
13:25	5 ~ 14:25 Instructional lecture 60	Moderator K. Nakanishi		
4-2-EL60	Updates on neurological diseases ··· Kinya Ishikawa, Dept. of Neurol., In	stitute of Science Tokyo…S523		
	0 ~ 15:40 Free papers 60 Moderators ent safety/medical education	M. Moriyama, T. Takagi		
4-2-1 4-2-2	Assessment of fall risk and adverse events in general ward inpatients at a reg in Japan ······· <i>Tetsuo Hagino, et al.</i> , Dept. of Orthop. Survey of hand skin radiation exposure among orthopaedic surgeons: A five-cohort study ······ <i>Gentaro Kumagai, et al.</i> , Dept. of Orthop. Surg., Hirosaki Univ. Gradi	Surg., NHO Kofu HospS524 -year longitudinal		
4–2–3 Occupational radiation exposure status of spine surgeons: Verification based on the results of lens and hand examinations				
4-2-4	Items that should be fully explained as informed consent to patients undergo arthroplasty: Multi-center questionnaire survey			
4-2-5 4-2-6	Frequency and clinical outcomes of incidental findings on contrast-enhanced evaluation after hip surgery ··················Akihito Oya, et al., Dept. of O Case-control studies in orthopaedics: A systematic review of core clinical jour	Orthop. Surg., Keio Univ.···S526		
4-2-0				

8:00~9	1 1 2 1	
Conqu	ering metabolic syndrome and locomotive syr	ndrome
4-3-JS7-1		ction: The Bunkyo health study ne and Sportology, Metabolism & Endocrinology, nter, Juntendo Univ. Graduate School of Medicine…S527
4-3-JS7-2		erspectives of diabetes and immobilization  ·· Wataru Ogawa, Div. of Diabet. and Endocrinol.,  t. Med., Kobe Univ. Graduate School of MedicineS527
4-3-JS7-3	The mutual association between metabolic synd the road study Noriko Yoshimura, et al., Dept. of Preve	drome and locomotive syndrome: Insights from entive Medicine for Locomotive Organ Disorders,
4-3-JS7-4	Obesity and ossification of the posterior longitude	Graduate School of Medicine, The Univ. of Tokyo…S528 Idinal ligament of the spine <i>al.</i> , Dept. of Orthop. Surg., Dokkyo Medical UnivS528
4-3-JS7-5	Clinical outcome of physical exercise by low-loa protocol for diabetes mellitus patients	ad resistance training with a slow movement
	Toru Mo	orihara, et al., Marutamachi Rehabilitation Clinic···S529
10:10 ~	· 11 : 30 Symposium 65 test in musculoskeletal transplantation and re	Moderators M. Watanabe, M. Takaso
4-3-S65-1	Regenerative therapy and rehabilitation for spin	nal cord injury rihito Nagoshi, Dept. of Orthop. Surg., Keio UnivS530
4-3-S65-2	Up-to-date regenerative medicine on peripheral	Inerve
4-3-S65-3	Up-to-date in allogenic bone and ligament grafti	
4-3-S65-4	Up to date of articular cartilage regeneration $\cdots$	noue, et al., Dept. of Orthop. Surg., Kitasato Univ.···S531 ·····Nobuo Adachi, et al., Dept. of Orthop. Surg.,
4-3-S65-5	3D-MRI analysis of cartilage thickness changes	Center for Stem Cell and Regenerative Medicine,
		Institute of Science Tokyo…S532
12:00~	13:10 Luncheon seminar 39	Moderator T. Ogura
4-3-LS39	Attack on PAIN Free: High dose PRP therapy: A platelet dose · · · · · · · · · · · · · · · · · · ·	New treatment strategy focusing on total
13:25 ~ Promo	14:45 JOA Directors' proposed symposiu oting international collaborative research acros	
4-3-JS8-1	The role of musculoskeletal and orthopaedic ca collaborative clinical research · · · · · · · Ken No	are in building a platform for international fakata, et al., Dept. of Global Innovative Medicine, Graduate School of Medicine, Osaka Univ.··S534
4-3-JS8-2	International collaborative research on genetic a	analysis of adolescent idiopathic scoliosis <i>Cota Watanabe</i> , Dept. of Orthop. Surg., Keio Univ.···S534
4-3-JS8-3	International collaborative basic research on hip (Stanford University)	
	····· Toshiyuki Kawai, Dept. of Orthop.	Surg., Graduate School of Medicine, Kyoto UnivS535

4-3-JS8-4	4-3-JS8-4 International multi-center randomized controlled trial comparing soft-tissue quadriceps and hamstring autograft tendons during primary ACL reconstruction in skeletally immature patients						
4-3-JS8-5							
		······Shintaro Iwata, Dept. of M	Iusculoskeletal Oncology and Rehab., National Cancer Center Hosp.···S536				
14:50~	15:40 Free papers 61	Infection: Treatment	Moderators S. Abe, K. Uchiyama				
iı	nfections in our hospital	uous local antibiotic perfusion the					
4-3-2 An		et al., Dept. of Orthop. Surg., Kob cefazolin compared with other B	oe Univ. Graduate School of Medicine…S537 3-lactams for lower extremity				
4-3-3 Ma	asquelet technique for fractu	al., Dept. of Orthop. Surg., Gradure-related infection: Is the intraopte count a predictor of recurrence					
4-3-4 Fa	ctors affecting treatment out	tcomes in fracture-related infection	, Dept. of Orthop. Surg., Teikyo Univ.···S538 ons: A multicenter study yogo Pref. Kakogawa Medical Center···S538				
4-3-5 Ef	fectiveness of treatment of p	yogenic spondylitis with antimicr	_				
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8:00 ~ 9 The for	: 20 Symposium 66 efront of Kienböck's disea	ase treatment	Moderators T. Murase, K. Murata				
4-4-S66-1	and older patients · · · · ·	Michiro Yamamoto, et al., Div. of	ogical comparison between younger Human Enhancement & Hand Surg., ate School of Medicine, Nagoya UnivS540				
4-4-S66-2			Arimitsu, et al., Osaka National Hosp.···S540				
4-4-S66-3	and evaluation of intrame	sease with bone marrow transfus edullary hemodynamics in the lunkeshi Ogawa, et al., Dept. of Orth					
4-4-S66-4	Lunate resection and vasc	ularized os pisiform transfer for F ······ <i>Masaomi Saeki</i> , Div. of	Kienböck's disease Human Enhancement & Hand Surg.,				
4-4-S66-5	Arthroscopic capitate part	ial resection and lunate excision	ate School of Medicine, Nagoya UnivS541 for advanced Kienböck disease Yamai Memorial Limb Trauma Center, Nara Medical Univ. HospS542				
10: 10 ~ 11: 30 JOA Directors' proposed symposium 9 Moderators A. Terakado, Y. Kawaguchi JOANR and specialized society registries:  Utilization and necessity of JOANR/specialized society registries for the Japanese Health Insurance Federation for surgery draft proposal							
Utilizati	ion and necessity of JOAN	egistries: NR/specialized society registri	es				

4-4-JS9			in Japan and its use for medical-care fee assessment Yutaka Hiraizumi, Dept. of Orthop. Surg., Showa Univ.	···S543			
4-4-JS9	9–3 Utiliz		iety registries: Necessity in the draft proposal of Japanese	2010			
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4-4-JS9							
			Medical Sciences, Graduate School of Medicine, Gifu Univ.	S544			
4-4-JS9		ent perspective for establishmen d surgery using the JOANR/JSS	nt and improvement of remuneration in spine and spinal SR registry				
	••••		····· Takashi Hirai, et al., Dept. of Orthop. and Spinal Surg.,	,			
		Graduate School	of Medical and Dental Sciences, Institute of Science Tokyo	···S545			
12:0	00 ~ 13:10	Luncheon seminar 40	Moderator M. S	aito			
4-4-LS			s treatment: Tips for the proper use of teriparatide				
	•••••	·····Masahi	ko Takahata, Dept. of Orthop. Surg., Dokkyo Medical Univ.	···S546			
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Th	e second ye	ear of physician work style re	eform				
4-4-JS1	10-1 Wor	k style reform for orthopaedic s	surgeons in small regional hospitals				
	•••	••••••	Hironori Otsuka, Dept. of Orthop. Surg., JCHO Akita Hosp.	···S547			
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	•••	····· Kazuyo Yamauchi, Dept.	of Com. Meded., Graduate School of Medicine, Chiba Univ.	···S547			
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4-4-JS1			Current status and future prospects				
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4-4-JS1			work style reform in Showa University Hospital	05.40			
	••••		······· Yoshifumi Kudo, Dept. of Orthop. Surg., Showa Univ.	···S549			
14:5	$50 \sim 15:40$	Free papers 62	Moderators N. Nakamura, Y. Taniga	uchi			
Pe	ediatric orth	opedics: Spine/miscellaneou	ıs				
4-4-1		ge of asymptomatic atlantoaxial ese population: Minimum 10 yea	instability with down syndrome from infant to adolescent				
			Dept. of Orthop. Surg., Saitama Children's Medical Center-	S550			
4-4-2			ncrease the uptake of secondary screening				
			nop. Surg., Dept. of Medicine of Sensory and Motor Organs,	,			
		• • • • • • • • • • • • • • • • • • • •	Faculty of Medicine, Univ. of Miyazaki				
4-4-3	Experienc	ce of bulbocavernous reflex mor	nitoring in selective dorsal rhizotomy				
	···· Yoshi	aki Oda, et al., Dept. of Orthop.	. Surg., Science of Functional Recovery and Reconstruction,	,			
		Faculty of Medicir	ne, Dentistry, and Pharmaceutical Sciences, Okayama Univ.	···S551			
4 - 4 - 4		le survey of Segawa disease: His					
	•••••		····· Yuko Segawa, et al., Dept. of Orthop. and Spinal Surg.,				
			of Medical and Dental Sciences, Institute of Science Tokyo	···S551			
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10 years results following corrective fusion surgery using 3-column osteotomy in patients with adult

Free papers 63 Adult spinal deformity 3 Moderators S. Taniguchi, K. Kawaguchi

8:00~9:00

4-5-1

4-5-2	Reference threshold of para long fusion in adult spine s	spinal muscle volumes for deciding surgery	, Hamamatsu Univ. School of MedicineS553 g the necessity of pelvic foundation or
4-5-3	A longitudinal cohort study	of radiographic and non-radiograp	op. Surg., Akita Kousei Medical Center…S553 shic factors related to changes in orthop. Surg., Asahikawa Medical UnivS554
4-5-4	5 years post-surgery		racic alignment in non-fixed vertebrae , Hamamatsu Univ. School of Medicine…S554
4-5-5	Effects of a lower limb skele	etal muscle supporter using rubbe	r contraction on gait improvement in CEC, Hamamatsu Univ. School of MedS555
4-5-6			radiographic parameters: Using the orthop. Surg., Asahikawa Medical UnivS555
9:15	$\sim 10:15$ Free papers 6	4 Spine & pelvic alignment	Moderators T. Imuro, K. Harimaya
4-5-7	•••••		pt. of Orthop. Surg., Kyoto Univ. HospS556
4-5-8		on the natural course of spino-pelvi mato, et al., Dept. of Orthop. Surg.	c alignment deterioration , Hamamatsu Univ. School of Medicine…S556
4-5-9	a community-based fema		
4-5-10	A longitudinal cohort stud	y of anew vertebral fracture and its	rano Geriatric Health Services Facility…S557 s impact upon spinopelvic alignment Dept. of Orthop. Surg., Oonishi HospS557
4-5-11	Risk assessment of adjacer a three-dimensional muse	nt segment diseases after lumbar in culoskeletal model	nterbody fusion using
4-5-12	Relationship between char	nges in cervical alignment and thor	kita Univ. Graduate School of Medicine…S558 acolumbar-pelvic parameters and Dept. of Orthop. Surg., Kyouritsu HospS558
10:30	~ 11:30 Instructiona	l lecture 61	Moderator K. Takeshita
4-5-EL6	9 / 1	nd treatment of adult spinal deforn ······Naobumi Hosogan	nity ne, Dept. of Orthop. Surg., Kyorin Univ.···S559
12:00	~ 13 : 10 Luncheon se	eminar 41	Moderator T. Kumai
4-5-LS41		r knee osteoarthritis in the clinic: It is administration of MSCs ········	From extracorporeal shockwave Shinya Nakasato, et al., N ClinicS559
	$5 \sim 14:45$ Symposium vating domestic medical d		Moderators A. Myoui, S. Matsuda
4-5-S67- 4-5-S67- 4-5-S67-	<ul><li>2 Tips for medical device</li><li>3 Social implementation</li></ul>	e development · · · · · · · · · · · · · · · · · · ·	Miyuki Shimizu, Medical Lab Partners···S560 g technology from academia pt. of Orthop. Surg. Osaka Rosai Hosp.···S561

4-5-S67-4 Developments of medical devices originating from Japan and efforts to expand into international markets · · · · · · · · · · · · · · · Masayuki Kyomoto, Medical R&D Center, KYOCERA · · · S561 4-5-S67-5 Challenges and business strategies for creating innovations in orthopaedic implant materials from the perspective of the medical device industry  $14:50 \sim 15:40$ Free papers 65 Pain Moderators K. Hashiguchi, J. Hashimoto 4-5-13 Pain in middle-aged and older adults living in the community focusing on central sensitization: Relationships with neuropathic pain and QOL .......... Naoki Segi, et al., Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ. ... S563 4-5-14 Electroencephalographic assessment of pain in patient with complex regional pain syndrome Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ. ... S563 4-5-15 Associations of synovial nerve growth factor and vascular endothelial growth factor with pain characteristics in patients with knee OA 4-5-16 Women-specific issues impact pain ······S564 4-5-17 A 5-year longitudinal study of factors contributing to the development of low back pain in healthy subjects: Yakumo study ...... Sadayuki Ito, et al., Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ. ... \$565 4th Day **May 25** Room 6  $8:00 \sim 9:20$ Moderators H. Haro, K. Nishida Symposium 68 Development and challenges in innovative intervertebral disc regeneration treatments 4-6-S68-1 Gene therapeutic approach to prevent intervertebral disc degeneration by maintaining homeostasis ······ Takashi Yurube, et al., Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine... \$566 4-6-S68-2 Development of regenerative therapy for intervertebral disk degeneration by replacement with iPS cell-derived nucleus pulposus 4-6-S68-3 Platelet-rich plasma (PRP) for intervertebral disc regenerative therapy Mie Univ. Graduate School of Medicine... S567 4-6-S68-4 Clinical trials for discogenic low back pain and their challenges

4-6-S68-5

...... Daisuke Sakai, et al., Dept. of Orthop. Surg., Surgical Science, Tokai Univ. S567

Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ.···S568

Phase 1/2 clinical trials of intervertebral disc regeneration therapy using ultra-high purity

biomaterials and bone marrow-derived stem cells

9:25	~ 10:25	Free papers 66	Osteoporosis: Treatment	1 Moderators	T. Nagai, M. Ota
4-6-1	evidence a	assisted by a multip	d osteonecrosis of the jaw in I	IS)	
	•••••	•••••••••••••••••••••••••••••••••••••••	Manabu Tsukamoto, et al., Do Univ. of	ept. of Orthop. Surg., Sch f Occupational and Enviro	
4-6-2	Four-year t	reatment continuat	ion rates of osteoporosis drug	gs with different dosing in	tervals <i>al.,</i> Kanai Hosp.···S569
4-6-3	Investigation	on of the effect of ro	omosozumab on aortic calcifications of the calcification of the calcific	eation	
4-6-4			ng initiation on BMD increase porosis ······ <i>Yuki Etani, et a</i> G		l Biomechanics,
4-6-5	A single-c	enter large-scale cli			
4-6-6	Romosozui density ai	mab can be expecte nd high bone resorp		y in patients with low lum	bar spine bone
	•••••	••••••	Yuki Mori, et al., Dept. of Orth		Medical Science, niv. of Medicine…S571
	0 ~ 11 : 30 ceoporosis: '	Free papers 67 Treatment 2		Moderators T. May	vatari, M. Takaesu
4-6-7			orosis drugs and renal functio ··· Takashi Nagai, et al., Dept		ne, Showa UnivS572
4-6-8	A proper	nsity score-matched	•		
4-6-9	Factors co	ontributing to incre	ahodo, et al., Dept. of Orthop. ased bone mineral density of t ko Kanazawa, et al., Dept. of O	total hip treated with rome	osozumab
4-6-10	Comparis	on of osteoporosis t	treatment adherence across hary fracture prevention		
4-6-11	Effect of o	osteoporosis treatm	Yukinori Tsukuda, et al., Depent on contralateral hip fractuusing large-scale database (J-	re after initial hip fracture	
				ninichi Ueki, et al., Dept. o	
4-6-12			support from the perspective als ······ Japanese Red Cross A		Dept. of Orthop.,
12:00	0 ~ 13:10	Luncheon sem	inar 42	Me	oderator H. Haro
4-6-LS4	Are	you somehow doir	osteoporotic vertebral fractung conservative treatment?  ii Makio, et al., Dept. of Ortho		
4-6-LS4	2-2 Total	l care for osteoporo erior column recons	tic vertebral fractures: Optima struction, surgical techniques	al surgical procedure with , and drug therapy	emphasis on
	••••	••••••	Masayuki Ishihara, et al., Dep	ot. of Orthop. Surg., Kansa	aı Medical UnivS575

	~ 14 : 45	Symposium 69 eumatic diseases		ctual clinic		Moderators A	A. Abe, N	. Takahashi
4-6-S69-1 Diagnosis and treatment of spondyloarthritis from the perspective of an orthopaedic surgeon								
4-6-S69-3	Yama	ated cooperation of agata area (YARAN	NA network)	and polyclin	ic for rheun	natoid arthritis t	reatment i	n
4-6-S69-4 4-6-S69-5	Evider	nce of orthopaedic	surgery in rh rata, Dept. of	eumatoid ar f Orthop. Su	thritis from rg., Graduat	the KURAMA of e School of Med	cohort licine, Kyo	oto Univ.···S577
	•	nts) cohort ···Kosuke Ebina, e	t al., Dept. of	Orthop. Sur	g., Graduat	e School of Med	licine, Osa	ka Univ.···S578
14:50 ~	~ 15:40	Free papers 68	8 Miscellan	ieous		Moderators	H. Hara	a, C. Azuma
<ul> <li>4-6-13 The impact of short sleep duration on musculoskeletal disorders: Bone density reduction in men and increased pain sensitivity in women</li></ul>								
8:00~	9:00	Instructional lec	ture 62			Mo	derator	H. Chikuda
4-7-EL62	4–7-EL62 Patahogenesis and treatment of OPLL · · · · · · Toshitaka Yoshii, Dept. of Orthop. and Spinal Surg., Graduate School of Medical and Dental Sciences, Institute of Science Tokyo · · · S582							
9:15~	10:15	Instructional le	cture 63			N	Ioderator	T. Aizawa
4-7-EL63		of thoracic ossific		al., Dept. o	Orthop./Rl neous Surg	heumatology, M ., Program in In School of Medio	tegrated N	Iedicine,
10:30 ~	~ 11 : 30	Instructional 1	ecture 64			M	oderator	Y. Oshima
4-7-EL64-		far has genomic a						, RIKEN…S583

4-7-EL6	ther	apeutic application	inism of progression of OPLL s sahiko Takahata, et al., Dept.			
12:0	0 ~ 13:10	Luncheon semi				T. Takebayashi
4-7-LS4			and clinical trials for discogen • Daisuke Sakai, Dept. of Ort	•		, Tokai Univ.···S584
13:2	$5 \sim 14:25$	Free papers 69	Spine: New technology	Moderators N	I. Sekig	uchi, M. Nagae
4-7-1	dural defe	cts for patients with	namic CT myelography and Maduropathies			
			ate School of Medical and De			
4-7-2			redicting one-month postoper	rative performance	status in	metastatic
	•	nor surgery	1.0.1.0.1.0.0	1 4 6 1 1 6 3	л 1· ·	Cl'1 II : CEO
4-7-3	A prospecti Posture ar	ve comparative stud	<ul><li>al., Dept. of Orthop. Surg., G</li><li>ly using synchronized 3D gain</li><li>ASD and L-SCS patients</li></ul>	t analysis and electr	omyogra	phy:
			····· Takahiro Sunami, et al.,			
4-7-4	in healthy	volunteer	al fluid flow in spine with CIN akeuchi, et al., Dept. of Ortho			
4-7-5	Risk factors	for cement leakage	e and efficacy of using cement	t-augmented fenestr	rated ped ept. of O	icle screws rthop. Surg.,
4-7-6	Evaluation of	of cement leakage i	n fenestrated pedicle screws	man Omv. Graduat	c School	of Medicine 3307
1.0			o Ugawa, et al., Dept. of Orth	op. Surg., Kochi He	ealth Scie	nces Center…S587
14:4	0 ~ 15:40	Free papers 70	Spine: Miscellaneous	Moderators	Y. Yuk	awa, C. Ushiku
4-7-7	The chang	es of nutritional sta	tus of patients undergoing sp	inal fusion		
			·····Masah		ept. of O	rthop. Surg.,
			St. Marianna Univ. School o			
4-7-8			mbar degenerative disease			
			····· Soya Kawabata, et al., D			
4-7-9			cutoff values in compression			
4-7-10			ko Kuwata, et al., Dept. of Retors of venous thromboembol			
4 / 10			·····Masashi Uehara, et a	_		-
4-7-11	Developm	ent and validation o	f the modified lumbar disabili al., Dept. of Orthop. Surg., G	ty stiffness index		
4-7-12		pine surgeries with	remote spinal lesion: A data b			
	_		al., Dept. of Orthop, Surg., G	raduate School of M	ledicine.	Osaka Univ.···S590

Moderators H. Taneichi, K. Takahashi

JOA Directors' proposed symposium 11

8:00~9:20

Cui	rrent	status and prospects of	Current status and prospects of cadaver surgical training (CST) in the field of orthopaedic					
4-8-JS11-1		Rules and ethical considerations in the implementation of CST						
4-8-JS1	1-2	Various methods of fixir	g donated bodies for CST					
······································				cal Univ. Kentai Office…S591				
4-8-JS1	1-3	Steering committee $\cdots$	··· Ichiro Tateya, Cadaver Sur	gical Training Cen	ter, Fujita Health UnivS592			
4-8-JS11-4 The symbiotic relationship between CAL and the department of orthopaedic surgery				vironmental Medicine.,				
4-8-JS1	1_5	The CST equipment and	) l operation at Nagoya City Un		Medicine, Chiba Univ.···S592			
4 0 131.	1 3		<i>uki Suzuki, et al.</i> , Dept. of Mu	sculoskeletal Healt	h Promotion Medicine, ol of Medical Sciences…S593			
4-8-JS1	1-6	Current status and pers	pectives of cadaver surgical tr	raining (CST) in the	field of orthopaedic			
			· Tomoyuki Noda, et al., Dept.		s Surg. and Sport Med., wasaki Medical School…S593			
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4-13-7	Evaluation of MP joint alterations after first metacarpal extension and abduction osteotomy for thumb CMC osteoarthritis ····················Shigeki Ishibashi, et al., Dept. of Orthop. Surg.,
	Graduate School of Biomedical and Health Sciences, Hiroshima Univ. · · S666
4-13-8	Kinematic changes of the thumb joints following extension-abduction osteotomy for the treatment
	of trapeziometacarpal osteoarthritis
4-13-9	Characteristics and changes of thumb kinematics of each surgical technique in
	trapeziometacarpal osteoarthritis · · · · · · · · · · Yuichi Sumida, et al., Dept. of Orthop. Surg.,
	Graduate School of Biomedical and Health Sciences, Hiroshima Univ. · · · S667
4-13-10	Development of 4D-CT method for analyzing the contact surface of the trapeziometacarpal joint
	during tip pinch manipulation ····································
	Faculty of Medicine and Graduate School of Medicine, Hokkaido Univ.···S667
4-13-11	Stress distribution analysis of MP joint before and after CM joint arthrodesis for CM
	joint osteoarthritis · · · · · · · · Yuki Matsui, et al., Dept. of Orthop. Surg., Kushiro Rosai Hosp. · · · S668
4-13-12	Depressed deformity of the collateral ligament attachment area may appear in hand OA
	Graduate School of Medical Sciences, Kanazawa UnivS668

10:30~	11:30	Free papers 93	Hand: Miscellaneous	Moderators	S. Nagao, M. Nakasone
4-13-13	muscle i	mass measured by	currence of distal radius fractu bioelectrical impedance analys	sis	
			···· Takahiro Sato, et al., Dept		
4-13-14			ne replacement therapy for ha		
	A 1 year	tollow up report · · ·	······································		
4 10 15	C	:4 1£41 41			ices, Kagoshima Univ.···S669
4-13-15			rapeutic effects of IL-23 p19 n ····· <i>Takah</i> :		
	psoriauc	ai uii ius ······			te School of Medicine…S670
4-13-16	Prevalenc	e of transthyretin a	myloid deposition in patients		
1 10 10			et al., Dept. of Orthop. Surg.,		
4-13-17			utaneous needle fasciotomy of		
			······ Yoshihiro Abe, De		
4-13-18			ary for long-duration upper ex		
			dexmedetomidine sedation		
	•••••	Se	ishiro Matsumoto, et al., Dept	. of Orthop. Surg.,	Osaka General Hosp.···S671
13:25~	14:25	Free papers 94	Basic reseach 2	Moderators	J. Nishida, Y. Hamada
4-13-19	Effect of a	a BMP receptor inh	ibitor on the progression of a	rat model of rotate	or cuff
			Toma		
					ices, Kagoshima UnivS672
4-13-20	Comprehe	ensive elbow joint n	norphology alterations due to	osteochondritis d	issecans of the
	capitellu	ım: Clinical implicat	tions		
	····Sai	toshi Miyamura, et e	al., Dept. of Orthop. Surg., Gr	aduate School of I	Medicine, Osaka UnivS672
4-13-21	Micronize	ed cellular adipose i	natrix (MCAM) promotes the	therapeutic effec	t of an artificial nerve
		in peripheral nerve			
			awai, et al., Dept. of Orthop. S		
4-13-22			anscribed site as a possible b		
4 10 00			··· Takashi Kuroiwa, et al., De		
4-13-23			is of MPNST and neurofibron		
4_19_94			Div. of Cellular Signaling, Na		
4-13-24		al killer cell	erapy for synovial sarcoma ta	rgeung nganus ioi	activating receptor
			<i>i, et al.</i> , Dept. of Orthop. Surg	g., Niigata Univ. M	edical & Dental HospS674
14:40 ~	15:40	Free papers 95	Basic reseach 3	Moderators	s H. Mera, K. Mishima
4-13-25	Evaluation	n of potential antiox	idant capacity of vitamin E-ble	ended UHMWPE	
			Takashi Nakamura, et al., Dep		g., Toho Univ. (Omori)···S675
4-13-26	Essential	anatomy of the pop	liteal artery in total knee arth	roplasty: A cadave	ric study
			al., Dept. of Orthop. Surg., G		
4-13-27	Weight-be	earing line of lower	limb by an upright computed	tomography and f	orce plates: The
	effect of	f coronal wedge floo	or ······ <i>Hiroyuki Seki, et al.,</i> I	Dept. of Orthop. St	ırg., Tachikawa HospS676
4-13-28			eurosis and the Achilles tendo		
			ara, et al., Dept. of Orthop. S		
4-13-29			ic analysis of progressive colla		
	shape m	odeling · · · · · · · · ·	Takuma Miyamoto, et al., De	pt. of Orthop. Sur	g., Nara Medical UnivS677

4 10 00	
4-13-30	Effects of the lunar gravity on endochondral ossification of articular cartilage
	4th Day May 25 E-poster Presentation Room Only sessions marked as "will be conducted in English
8:00 ~	8:35 E-poster presentation Tumor: Bone tumor (ROOM 1) Moderator N. Yamamoto
1-Po-1	Risk factors for postoperative complications and re-operation in metastatic spine surgery:  JASA multicenter study ········ Takaki Shimizu, et al., Dept. of Orthop. Surg.,  Graduate School of Medical Sciences, Kanazawa Univ.···S678
4-Po-2	Awareness of previous physicians for non-ossifying fibromas and fibrous cortical defects in referral documents · · · · · · Manabu Hoshi, et al., Dept. of Orthop. Surg., Osaka City General Hosp. · · · S678
4-Po-3	The pivotal role of tumor-associated macrophage-derived il-8 in osteosarcoma growth and metastasis · · · · · Jiro Ichikawa, et al., Dept. of Orthop. Surg.,  Graduate School of Medical Science, Univ. of Yamanashi · · · S679
4-Po-4	Psychological distress during treatment in AYA patients with bone and soft tissue tumors Shudai Muramatsu, et al., Dept. of Orthop. Surg., Kochi Medical School, Kochi Univ S679
4-Po-5	Clinical characteristics and care practices of pediatric and AYA survivors with bone and soft tissue sarcoma ····································
1-Po-6	Investigation of radiation dose in CT-guided needle biopsy using a hybrid surgical system (Artis Zeego) · · · · · · · · · Hirotaka Ogi, et al., Dept. of Orthop. Surg., Shizuoka City Shizuoka Hosp. · · · S680
1-Po-7	Efficiency of free vascularized fibula graft for extensive femoral defects after wide resection of malignant bone and soft tissue tumors
	······ Toshiyuki Takemori, et al., Dept. of Musculoskeletal Oncology and Rehabilitation,  National Cancer Center Hosp.···S681
8:00 ~	* 8 : 35 E-poster presentation Moderator T. Hara mo: Epidemiology/miscellaneous (ROOM 2)
l-Po-8	The effect of progression of locomotive syndrome on worsening of frailty at 1 year in community-dwelling older adults
1-Po-9	Kazuaki Hamada, et al., Graduate School of Humanities and Social Sciences, Hiroshima Univ S682 Impact of cognitive and physical functions on longitudinal quality of life in middle-aged and older adults
-Po-10	Cutaneous Surg., Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ.···S682  The effect of risk of sarcopenia on worsening locomotive syndrome at 1 year in community-dwelling older adults: A cohort study
Po-11	Kenta Hirohama, et al., Graduate School of Humanities and Social Sciences, Hiroshima Univ S683  Determining factors that maintain physical function or increase frailty using the kihon checklist among community dwelling older adults
-Po-12	Are wearable devices useful in preventing locomotive syndrome in the working generation?

Graduate School of Medical Science, Kyoto Prefectural Univ. of Medicine…S684

Speed of sit-to-stand movement can predict the severity of locomotive syndrome

4-Po-13

Mie Univ. Graduate School of Medicine…S684

4-Po-14 Validity of a modified version of the locomotive syndrome screening tool (L-treeS) ····· Junji Nishimoto, et al., Graduate School of Humanities and Social Sciences, Hiroshima Univ. ··· S685  $8:00 \sim 8:35$ E-poster presentation (English) Hip & knee (ROOM 3) (G605) Moderator T. Kojima 4-Po-15 ACL graft elongation during downhill running over a 10-year follow-up ······Koji Nukuto, et al., Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine···S686 4-Po-16 Comparison of measurement accuracy between physicians and radiological technologists for evaluation of medial meniscal extrusion using radiography ······Shohei Murata, et al., Dept. of Orthop. Surg., Akita Univ. Graduate School of Medicine···S686 4-Po-17 Effect of altered knee joint loading pattern in gait biomechanics of total knee arthroplasty patient ······Sang Jin Lee, Dept. of Orthop. Surg., Haeundae Paik Hosp., Inje Univ., Busan, Korea···S687 4-Po-18 Predicting periprosthetic joint infection susceptibility post-total joint arthroplasty using integrative genomic and microbiome machine learning models ···Prihantini Prihantini, et al., ML for BioMed Lab., Bandung Inst. of Tech., Bandung, Indonesia···S687 4-Po-19 Deep learning-driven prediction of implant loosening in total hip arthroplasty integrating preoperative imaging and surgical data ..... Rifaldy Fajar, et al., Computational Biology and Medicine Laboratory, Univ. of L'Aquila, L'Aquila, Italy…S688 4-Po-20 Machine learning-driven identification of extracellular vesicle miRNAs to restore bone vascularization in osteonecrosis ······ Naura Auny, et al., Orthop. Surg. Research Center, Gowa General Hosp., Gowa, Indonesia... \$688 4-Po-21 Impact of socioeconomic status on rehabilitation adherence and long-term outcomes in total hip International Univ. Semen Indonesia. Gresik, Indonesia. S689  $8:00 \sim 8:35$ Moderator H. Iwakawa E-poster presentation Shoulder, elbow & hand (ROOM 4) 4-Po-22 Correlation analysis of the histological degeneration of supraspinatus tendon with clinical findings in arthroscopic rotator cuff repair for partial-thickness tear 4-Po-23 Pre- and post-operative scapular rotation changes in reverse shoulder arthroplasty ..... Sei Fujii, et al., Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ. ··· S690 4-Po-24 Location of osteochondritis dissecans of the humeral capitellum due to non-baseball sports 4-Po-25 Retrospective study of loosening in total elbow arthroplasty ...... Shin Osawa, et al., Dept. of Orthop. Surg., Kobe Univ. Graduate School of Medicine... S691 4-Po-26 Patient-specific factors associated with the persistence or recurrence of symptoms after conservative treatment for de Quervain tendinopathy 4-Po-27 A prospective study on the ideal compression method of carpal compression test for carpal tunnel syndrome assuming telemedicine 4-Po-28 Preoperative ultrasound examination to confirm the recurrent branch of the median nerve in carpal tunnel release surgery ...... Shun Miyamoto, et al., Dept. of Orthop. Surg., Kagawa Univ. S693

Spina	al tumor/miscellaneous (ROOM 5)	
4-Po-29	Transition of intradiscal chondriase injection therapy and surgical therapy: Has the number of surgeries decreased due to chondriase infusion therapy?  Yujiro Kagami, et al., Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg.,  Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ	·S694
4-Po-30	Multi-rod reinforcement reduces immediate neurological deterioration during ambulation after posterior decompression and instrumented fusion for thoracic OPLL	
4-Po-31	Association between sleep disturbance and neck pain: A 3-year longitudinal study after the great east Japan earthquake · · · · · · · Yutaka Yabe, et al., Dept. of Orthop. Surg., Sendai Nishitaga Hosp. · · ·	
4-Po-32	Unmasking false negatives in intraoperative neurophysiological spinal cord monitoring:  Multi-institutional practice patterns study	·S695
4-Po-33	Utility of intratumoral flow void diameter in metastatic spinal tumors: A simple indicator for vascularity assessment in metastatic spinal tumors ······ Yuji Ishino, et al., Dept. of Orthop. Surg.,  Graduate School of Medical Sciences, Kanazawa Univ.···	
4-Po-34	The differences in associated factors according to the characteristics of complications following spinal metastasis surgery	·S696
4-Po-35	Clinical outcomes of palliative surgery for spinal metastases with and without a history of radiation · · · · · · · · · · · · · · · · · · ·	
8:00~	~ 8:35 E-poster presentation Basic reseach 1 (ROOM 6) Moderator T. A	rai
4-Po-36	Elucidating pathogenesis and identifying novel therapeutic targets in Ewing sarcoma:  A comprehensive genomic analysis of slow-cycling cells utilizing next-generation sequencers	·S698
4-Po-37	PIEZO1 (mechanically sensitive ion channel) regulates the ossification of annulus fibrosis	·S698
4-Po-38	Analysis of up-regulated microRNA in synovial fluid on osteonecrosis of the femoral head	
4-Po-39	Mid-term outcomes of single-step ultra-purified alginate gel implantation in patients with knee chondral defects ····································	
4-Po-40	The biomechanical consequences of lateral femoral condyle lengthening in total knee arthroplasty: A biomechanics study using cadaver bones Koki Abe, et al., Musculoskeletal Science, Yokohama City Univ. Graduate School of Medicine	·S700
4-Po-41	Longitudinal cohort study of knee osteoarthritis to explore the predictive biomarkers of the future progression ····································	·S700
4-Po-42	The depth of the dorsalis pedis artery between the first and second metatarsals: A cadaveric study	

Moderator K. Suzuki

8:00~8:35

E-poster presentation

8:45~	$\sim$ 9:20 E-poster presentation Tumor: Soft tissue tumo	or (ROOM 1)	Moderator	T. Akisue		
4-Po-43	Predictive model for distant metastasis in high-grade soft tisst and tumor size: Development and validation Tatsuro Saruga, et al., Dept. of Orthop. Surg., Hirosak					
4-Po-44	Needle biopsy with genetic test increase the number of unresected cases in nodular fasciitis Seiichi Matsumoto, et al., Dept. of Orthop. Surg., Cancer Institute Hosp.···S702					
4-Po-45	Dedifferentiation of atypical lipomatous tumor/well differenti	iated liposarcon atsuoka, et al., I	na Dept. of Ortho	p. Surg.,		
4-Po-46	Faculty of Medicine and Graduate Clinical characteristics and prognostic factors of extraskeletal and soft tissue tumor registry	l osteosarcoma:	Analysis of th	ne bone		
	Throya Homao, et al., Dept. of Museum			er HospS703		
4-Po-47	Angiosarcoma in Japan: An analysis of the population-based ca					
	Toshiyuki Takemori, et al., Dept. of Musculo			ilitation,		
				er HospS704		
4-Po-48	Factors affecting functional decline in limb-sparing surgery for	or soft-tissue sa	rcoma of the t	high		
	······Atsushi Tanaka, et al., I	Dept. of Orthop	. Surg., Shinsl	nu UnivS704		
4-Po-49	The prognostic value of SIRI and CD8+TILs in the prognosis	of patients with	localized			
	undifferentiated pleomorphic sarcoma of soft tissue					
	······Hiroshi Kol	bayashi, et al., I	Oept. of Ortho	p. Surg.,		
	The Univ	z. of Tokyo Hosp	o., The Univ. o	f Tokyo…S705		
	~ 9:20 E-poster presentation como: Spine/lower limb/miscellaneous (ROOM 2)	N	Ioderator E	. Okumura		
4-Po-50	Locomotive syndrome and GAP score: A study using cutoff va	/Rheumatology	, Musculoske	letal and		
4-Po-51	Effectiveness of surgical intervention in patients with lumbar syndrome stage 3 <i>Hideaki Matsumae, et al.</i> , Dept. of Or					
4-Po-52	Relationship between knee adduction moment and muscle co- with healthy adult · · · · · · Tatsuya Mikami, et al., Dept. of Rel					
4-Po-53	Effects of COP position feedback on asymmetry in knee exter squatting after ACLR	, et al., Div. of I	Rehabilitation	Science,		
4-Po-54		ne				
	Graduate School					
4-Po-55						
		rthop. Surg., S	aitama Cancei	Center···S708		
4-Po-56						
	Masashi Uehara, et al., I	Dept. of Orthop	. Surg., Shinsl	nu UnivS709		

8:45~		Moderator S. Soshi
Uppe	er limb/spine/miscellaneous (ROOM 3) (G605)	
4-Po-57	Risk factors for tear progression in isolated supraspinatus tendon: A prosp	ective study
	·····Jumpei Inoue, et al., Dept. of Orthop. Surg., Univ. of Pittsburg	gh, Pittsburgh, PA, USA…S710
4-Po-58	High-grade chondrosarcoma of the shoulder: Reconstruction with oncolog	gical reverse
	polarity prostheses	
	······ Giakoumis V. Diakoumis, et al., Dept. of Orthop., NIMTS	S Hosp., Athens, Greece…S710
4-Po-59	Risk factors for median arcuate ligament overlap in adult spinal deformity	
	Yasushi Iijima, et al., Dept. of Orthop. Surg., Sein	rei Sakura Citizen HospS711
4-Po-60	Epiphyseal separations due to scurvy in children with severe spastic cereb	
	······Vikas Trivedi, et al.	
		ciences, Prayagraj, India…S711
4-Po-61	Progression of limb-length discrepancy and pelvic obliquity in pediatric idi	
	scoliosis patients ··········Vikas Trivedi, et al.	
		ciences, Prayagraj, India…S712
4-Po-62	Rotation fasciocutaneous flap for skin closure following postero-medial rel	
	in neglected clubfeet: A new technique ············Vikas Trivedi, et al.	
4 D CO		ciences, Prayagraj, India…S712
4-Po-63	The efficacy of classical Indian yoga in the treatment of fibromyalgia: A ran	ndomized
	controlled trial	d Collogo Vannum India \$712
	······Panna Mishra, et al., Dept. of Orthop. Surg., Saraswat Medica	ii College, Kalipur, Ilidia…5/15
8:45~	9:20 E-poster presentation TKA/OA (ROOM 4) G607	Moderator H. Fujii
4-Po-64	Changes in pelvic lateral tilt angle before and after total knee arthroplasty	for coxitis knee
		ogy, Musculoskeletal and
	Cutaneous Surg., Program	
	Graduate School of	Medicine, Nagoya Univ.···S714
4-Po-65	Factors contributing to medial and lateral soft tissue stiffness during total	knee arthroplasty:
	Quantitative evaluation using a digital tensor ···· Natsuki Sugimura, Kocl	hi Medical School Hosp.···S714
4-Po-66	Association between patellofemoral joint and clinical outcome in robotic as	ssisted bi-cruciate
	stabilized total knee arthroplasty · · · · · · · Shine Tone, et al., Dept. o	f Musculoskeletal Surg.,
	Dept. of Multimodality Therapy for Cancer, Mie Univ. Grad	uate School of Medicine…S715
4-Po-67	Intraoperative reference points on the proximal tibia in image-free robotic-	-assisted TKA should be
	determined by preoperative posterior tibial slope	
	·····Yutaka Nakamura, et al., Dept. of Orthop	
4-Po-68	Efficacy of oxidized regenerated cellulose powder in postoperative hemory	rhage of total
	knee arthroplasty	
4-Po-69	The prevalence of varicose veins and the effect of varicose vein treatment	on knee pain in patients
	with knee osteoarthritis	
4 D 50	······································	
4-Po-70	Electromyographic analysis of infrapatellar fat pad dynamics during walking	
	knee osteoarthritis	
	Graduate School of Biomedical and Health Sc	nences, Hirosnima Univ.···S/17

	9:20 E-poster presentation cal spine & thoracic spine (ROOM 5)	Moderator	H. Mihara
4-Po-71	Impact of bone calcification on cervical pedicle screw insertion using pre CT-based navigation ······················Masashi Uehara, et al., Dept. of Ort		hu UnivS718
4-Po-72	Impact of injury level on the 10-second grip and release test and grip stre myelopathy diagnosis	ength in cervical	
4-Po-73			
4-Po-74		of cervical lordo al., Dept. of Ortho	sis and op. Surg.,
4-Po-75	Changing trends in traumatic spinal cord injury in an aging society: Epid over 15 years in Japan ··········· <i>Kazuya Yokota, et al.</i> , Dept. of Orthop. S	lemiology of 1152	cases
4-Po-76	Association between neutrophil percentage to albumin ratio (NPAR) and thoracolumbar injury: A single-center, retrospective cohort study		
4-Po-77	Enhancing safety in ultrasound-guided cervical nerve root block: Key pra and C6/C7 transverse process anomaly evaluation 	actical considerat	ions
8:45~	9:20 E-poster presentation Basic reseach 2 (ROOM 6)	Moderator	T. Uematsu
4-Po-78	Surfaceome analysis of FMS-1, a malignant peripheral nerve sheath tume		cal UnivS722
4-Po-79	Antioxidants promote muscle regeneration for hamstring strainFumitoshi Hatae, et al., Dept. of Orthop. Surg., Junto		su HospS722
4-Po-80 4-Po-81	Spinal cord injury pain associated with mitochondrial dysfunction and ne the thalamus ···········Ryunosuke Fukushi, et al., Dept. of Orthop. Surposurubicin irreversibly impairs skeletal muscle regeneration by inhibit	g., Sapporo Medi	
4-F0-81 4-Po-82	necrotic tissue ··· <i>Shinya Kondo</i> , <i>et al.</i> , Dept. of Orthop. Surg., National Elucidation of the mechanisms of muscle atrophy and impaired regenera	Defense Medical	
4-Po-83	kidney disease <i>Haruo Sasaki, et al.</i> , Dept. of Orthop. Surg., National Artificial nerve wrapping for peripheral nerve injury in rat model		College···S724
4-Po-84		AT3 pathway via C	P130
0 : 20			
9:30 ~ Fractu	10:05 E-poster presentation ure: Spine/upper limb/ankle (ROOM 1)	Moderator	K. Inokucni
4-Po-85	The incidence of vertebral artery injury and symptomatic cerebral infarc dislocation and fracture	ction in cervical s	pine
		edicine, Univ. of I	Miyazaki…S726
4-Po-86	Can CT values predict early reoperation after thoracolumbar transitional	reconstruction for	or
	osteoporotic vertebral fractures?: Risk factors for early DJF	g., Dokkyo Medi	cal Univ.···S726

4-Po-87	Characters of the cases with shrinkage of humeral fractures	the greater tuberosity after ost	eosynthesis for prox	timal
4-Po-88		lates and knuckle plates by ther	moforming using a	
	3D printer			
4-Po-89	Toyama Prefectural Rehabilitation Radiological feature of the carpometacarp			
4 10 05	X-ray image · · · · · · · · · · · · · · · · · · ·			
4-Po-90	Treatment for traumatic instability or disl			1105p. 0120
	······ Tsuyoshi Shirahata, et al., Dept. of			licine…S728
4-Po-91	Validity and reliability of a new fluoroscop			
	tibiofibular diastasis associated with ank	le fractures		
	······ Toshinari Mashu, et al., Dept. of O	Orthop. Surg., Graduate School	l of Medicine, Chiba	Univ.···S729
9:30~	10:05 E-poster presentation Artif	icial intelligence (ROOM 2)	Moderator R. I	Nakahara
4-Po-92	Prediction of diagnosis of Chiari malform	ation or syringomyelia in adole	scent scoliosis using	:
	deep learning with convolutional neural			
4 Do 02		dicine and Graduate School of I		UnivS730
4-Po-93	AI-based prediction of post-operative improvements of the control			Univ\$730
4-Po-94	Automating preoperative planning for total			
11001	forest fusion model ······			
		Yamaguchi Univ. Gra		
4-Po-95	Usefulness of an AI system for predicting			
	·····Yoshiaki l			
4-Po-96	Usefulness of a fall prediction AI system t			
	surgery cases ······ Tasuku			Hosp.···S732
4-Po-97	Deep learning for ultrasound diagnosis of			1:-: 0720
4-Po-98	····· <i>Tetsuya Yamamoto, et al.</i> , Dept. of Predicting the clinical decision limits of lo			
4 1 0 30	using machine learning			
	Dept. of Medicine of Sensory as			
9:30~			Moderator	
4-Po-99	Relationship of central sensitization on the	· · · · · · · · · · · · · · · · · · ·	with frozen shoulde	r
410 33	······Eiji S			
4-Po-100	Long-term results of a multidisciplinary			поор. Отот
	·····Shinsuke Inoue,			Univ.···S734
4-Po-101	Examination of the anti-inflammatory ef	fect of preoperative intravenous	s injection of tranexa	mic
	acid in total hip arthroplasty ·····	Fumihiro Mukasa, et al., Dept. o	of Orthop., Juntendo	Univ.···S735
4-Po-102	Short-term clinical outcome of cooled ra	diofrequency ablation in chroni	ic knee pain	
	osteoarthritis: Prospective cohort study			
	·····Kensuke I			
4-Po-103	Acute postoperative pain is an independe	ent risk factor associated with c	hronic postoperative	9
	pain after total knee arthroplastyTakuya	Icabi et al Dort of Outhor C.	ira Huoro Modical	Univ\$796
4-Po-104	Ultrasound-guided sciatic nerve block in		ng., nyogo medicai	OIIIV3/30
110 104	Masaki Yugami et al. Dept. of		ciences Kumamoto	Univ\$736

4-Po-105	Pain relief following arthroscopic rotator cuff repair: When can we achieve "almost no pain"?
9:30~1	0:05 E-poster presentation Knee: miscellaneous (ROOM 4) Moderator A. Suzuki
4-Po-106	The feature of meniscus extrusion in patients with deficiency of anterior cruciate ligament
4-Po-107	Graduate School of Biomedical and Health Sciences, Hiroshima Univ.···S738  Ultrasound findings associated with medial meniscus posterior root tear
4-Po-108	Relationship between change of bone marrow lesions score after high tibial osteotomy and patient reported outcome measures
4-Po-109	Comparative evaluation of tilt angles of bone and cartilage surfaces of tibial joint surfaces in non-OA knees using MRI ······ Daizo Saito, et al., Artificial Joint Center, Yamagata Saisei Hosp. ··· S739
4-Po-110	Bony prominence adjacent to the pes anserinus is associated with medial plica in middle-aged populations with Kellgren-Lawrence grade 0
4-Po-111	Influence of lower limb alignment differences in hip-knee-ankle angle on gait function and patient-reported outcome measures in a general population
4-Po-112	Prediction of KSS 2011 improvement by valgus stress Xp assessment before UKA: From the viewpoint of coronal tibiofemoral subluxation ··· Shinya Kawahara, et al., Dept. of Orthop. Surg.,  Clinical Medicine, Graduate School of Medical Sciences, Kyushu Univ.···S741
	Clinical Medicine, Graduate School of Medical Sciences, Ryushi Clinv. 5741
9:30 ~ 1 Lumba	
	0:05 E-poster presentation Moderator N. Wakao r spine/osteoporosis (ROOM 5)  Association between progression of paraspinal muscle fatty infiltration and lumbar spine degeneration: 11-year follow-up of the Minami Aizu study
Lumba	0: 05 E-poster presentation Moderator N. Wakao r spine/osteoporosis (ROOM 5)  Association between progression of paraspinal muscle fatty infiltration and lumbar spine degeneration: 11-year follow-up of the Minami Aizu study
<b>Lumba</b> 4-Po-113	0: 05 E-poster presentation Moderator N. Wakao r spine/osteoporosis (ROOM 5)  Association between progression of paraspinal muscle fatty infiltration and lumbar spine degeneration: 11-year follow-up of the Minami Aizu study
Lumba 4-Po-113 4-Po-114	O: 05 E-poster presentation Moderator N. Wakao r spine/osteoporosis (ROOM 5)  Association between progression of paraspinal muscle fatty infiltration and lumbar spine degeneration: 11-year follow-up of the Minami Aizu study
Lumba 4-Po-113 4-Po-114 4-Po-115	O: 05 E-poster presentation
Lumba 4-Po-113 4-Po-114 4-Po-115 4-Po-116	Association between progression of paraspinal muscle fatty infiltration and lumbar spine degeneration: 11-year follow-up of the Minami Aizu study

9:30~	10:05	E-poster presentation	Basic research: Spine (ROOM 6)	Moderator B. Otsuki
4-Po-120	Pathop	physiological roles of chemo	kine RANTES and local inflammation	in patients with
	ossifi	cation of the posterior longi	tudinal ligament in cervical spine	
	• • • • • • • • • • • • • • • • • • • •	····· Takafumi Yayam	a, et al., Dept. of Orthop. Surg., Shiga	Univ. of Medical Science…S746
4-Po-121	Narrov	w cervical laminectomy pre	vents postoperative C5 palsy by restric	ting elongation of
	anter	rior rootlets : An experimen	tal study using rat model	
			ept. of Orthop. Surg., Osaka Medical a	
4-Po-122			unctional connectivity using resting-sta	ate functional MRI in
		pperative patients with cervi	2 1 2	
			ane Nakagawa, et al., Dept. of Orthop	
4-Po-123			window of muse cell transplantation for	
4 D 104			otaro Sakashita, et al., Dept. of Orthop	
4-Po-124			expression and OS-index in ossificatio	n of the posterior
		tudinal ligament of the cerv	o, et al., Dept. of Orthop. Surg., Shiga	Univ. of Modical Science\$740
4-Po-125			ombined with transcranial magnetic st	
4 10 120		cospinal excitation and finge		mulauon on
			· Kazumasa Konishi, et al., Dept. of Or	than Surg Kvarin Univ ··· \$748
4-Po-126			comotes functional recovery in spinal c	
110120		oprotection in acute phase	omotee rancismar recevery in spinar e	ora nijar j
			Tetsuhiko Mimura, et al., Dept. of Orth	nop. Surg., Shinshu Univ.···S749
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4-Po-127			rognostic scoring system for one-yearYusei Katsuyama	
	pane		School of Medical Science, Kyoto Prefe	
4-Po-128	The ne		cator for evaluating bone density befor	
1 10 120			···· Go Sakai, et al., Dept. of Orthop. S	
4-Po-129			ture in bipolar hemiarthroplasty using	
		icenter study	···· · · · · · · · · · · · · · · · · ·	
		•	, et al., Dept. of Orthop. Surg., Izumu	Regional Medical Center…S751
4-Po-130			alization and surgery within 48 hours	
		level of walk	_ ,	
	••••	······Hirotaka Kawakami, e	t al., Dept. of Orthop. Surg., Sendai M	ledical Association Hosp.···S751
4-Po-131	Predic	tion of walking ability six m	onths after hip fracture surgery using	sarcopenia index:
	Multi	icenter longitudinal study $\cdot \cdot$	·····Naoki Okub	o, et al., Dept. of Orthop.,
		Graduate S	School of Medical Science, Kyoto Prefe	ectural Univ. of Medicine…S752
4-Po-132	Progno	ostic factors and scoring sys	stems for 30-day mortality after hip frac	ctures surgery in
	the el	lderly · · · · · · · Koichi	Umeda, et al., Dept. of Orthop. Surg.,	Fukuchiyama City Hosp.···S752
4-Po-133			r fracture after total knee arthroplasty	
	•••••	·····Kenta K	Taihara, et al., Dept. of Orthop. Surg.,	Fukuchiyama City Hosp.···S753
10:15~		E-poster presentation		Moderator H. Kaneko
Comp	uter assi	isted surgery (ROOM 2)		
1 D 101	ъ.		MA 1 EA 1 1 M-1 TIZA :	P. 0.00

4-Po-136		cy and problems of medial stabilizi			
	knee	arthroplasty ······			
4 D 107	01		Biomedical Sciences, Tokush		
4-Po-137		erm postoperative clinical outcome			
	with n	avigation-THA · · · · · · · · · · · · · · · · · · ·			
4 D 100			Biomedical Sciences, Tokush		
4-Po-138		cy of acetabular cup placement in I			
		····· Tetsuya Kimura, et			
4-Po-139		nces in cup placement accuracy be		erior approaches in late	eral
		oitus THA using MAKO and CT na			
					Univ.···S756
4-Po-140		hone application for cemented ster			
	•••••				
		Graduate School of N	Medical and Dental Sciences	, Institute of Science T	okyo…S757
10:15 ~	- 10 : 50	E-poster presentation Hip (	(ROOM 3)	Moderator	M. Goto
4-Po-141	The inf	luence of obesity on acetabular cup	p positioning using AR hip na	avigation system in tot	al
	hip ar	throplasty			
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4-Po-142	Has the	use of the dual mobility cup expan	nded the indications for total	hip arthroplasty in	
	elder	y patients? · · · · · · · · Hiro	haru Oki, et al., Dept. of Ort	hop. Surg., Yamagata	Univ.···S758
4-Po-143	Evaluat	ion of lower limb alignment before	and after total hip arthropla	ısty	
	• • • • • • • • • • • • • • • • • • • •		······Hiroyuki Morita, et	al., Dept. of Orthop. S	Surg.,
			ool of Biomedical and Health		
4-Po-144	Postope	erative radiographic evaluation of c	cemented stems and compar	ison with femoral stres	SS
	distrib	oution using thermoelastic stress a	nalysis		
	•••••	·····Shota Yasunage	a, et al., Dept. of Orthop. Su	rg., Univ. of Tsukuba F	HospS759
4-Po-145	Acetab	ılar retroversion following rotation	nal acetabular osteotomy is a	ffected by the ischial	
	osteo	omy angle			
	• • • • • • •	····Kazuki Yamada, et al., Dept. of	Medical Materials for Musc	uloskeletal Reconstru	ction,
		Faculty of Medicine, I	Dentistry, and Pharmaceutic	al Sciences, Okayama	Univ.···S760
4-Po-146	Long-te	rm course of borderline dysplasia	: Risk factors for the osteoar	thritis and joint surviv	ral
	on the	unilateral RAO non-operated side			
	• • • • • • • • • • • • • • • • • • • •	······Ayano Amagami, et al., Dej	pt. of Orthop. Surg., The Jik	ei Univ. School of Med	icine…S760
4-Po-147	Evaluat	ion of intra-articular structural cha	anges in osteoarthritis of the	hip following PRP	
	injecti	on therapy: An MRI-based study			
	• • • • • • • • • • • • • • • • • • • •	······· Yusuke Okanoue, et al., Dej	pt. of Orthop. Surg., Kochi N	Aedical School, Kochi	Univ.···S761
10:15~	- 10 : 50	E-poster presentation Foot	& ankle (ROOM 4)	Moderator	Y. Suda
4-Po-148	Patient	satisfaction assessment following	transfibular approach ankle	arthrodesis based on	
4 10 140		t-reported outcome measures	a anonbular approach ankie	ii tiii odesis based oii	
		···· Hirotaka Fukushima, et al., Dej	nt of Orthon Sura The like	ei Univ School of Med	icino\$762
4-Po-149		ect of ankle osteoarthritis stage on			
+ 10 <sup>-</sup> 149		ect of alikie osteoartiffus stage of			_
			chool of Medical and Dental		
4-Po-150	Relation	nship between lower extremity alig			OHIV. 3102
T 10 100		arthroplasty······			Univ\$763
	mice	a man opanotj	Later, a Salvar, or an, Dept. o	1 01 mop. ours., ousu	

4-Po-151	A modified combined tibialis anterior and posterior foot in pediatric patients  Hiroshi Kaneko, et al., Dept. of Orthop. Sur	or tendon transfer for paralytic equinovarus  g., Aichi Children's Health and Medical Center…S763
4-Po-152	Relationship between ankle osteoarthritis and low	
4-Po-153	The relationship between calcaneofibular ligamer progression of ankle osteoarthritis	t injury and subtalar joint alignment with
4-Po-154	Subchondral bone density comparison in the subtanalysis study ··········Kento Shimanoe, et al.,	alar joint post-TAA vs. AA: A finite element Dept. of Orthop. Surg., Kagoshima Univ. HospS765
10:15 ~ Spinal	~ 10:50 E-poster presentation I deformity/spinal alignment (ROOM 5)	Moderator A. Matsumura
4-Po-155	In Lenke type 1 and 2 curves scoliosis, achieving postoperative cervical alignment	the upper thoracic kyphosis is important for f Orthop. Surg., Shiga Univ. of Medical Science\$766
4-Po-156	The characteristics of waistline asymmetry in pati	
4-Po-157	Influence of pelvic incidence on posterior correcti scoliosis: Analysis in surgery using anatomical ro	on surgery for Lenke 1 adolescent idiopathic
		l Graduate School of Medicine, Hokkaido UnivS767
4-Po-158	Reference threshold of preoperative spinal alignm foundation or long fusion in adult spine surgery	
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4-Po-159		urg., Graduate School of Medicine, Kyoto Univ.···S768
4-Po-160	Characteristics of chronic pain and spinal alignme middle-aged and elderly residents in the commu	nity
	Ippei Ya Musculoskeletal and Cu	mauchi, et al., Dept. of Orthop./Rheumatology, taneous Surg., Program in Integrated Medicine, Graduate School of Medicine, Nagoya UnivS768
4-Po-161	Prognostic prediction of neck drop syndrome using	
	·····Ryusuke Hasegawa, et d	d., Dept. of Orthop. Surg., Tokyo Medical Univ.···S769
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4-Po-162		ii Imade, et al., Dept. of Orthop., Shimane Univ.···S770
4-Po-163		cal Sciences, Tokushima Univ. Graduate School…S770
4-Po-164	Toward understanding the pathophysiology of ulr impact of dynamic factors using fresh-frozen cac	avers
4-Po-165	Temporal bone volume changes in the humeral h	urg., Graduate School of Medicine, Chiba UnivS771
110 100	tear arthropathy model · · · · · · · · · · · · · · · · · · ·	
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4-Po-166	Augmentation of rotator cuff repair with pressed a rat model · · · · · · Fumitoshi Hatae, et al., Dept. of	piceps tendon enhances attachment strength in of Orthop. Surg., Juntendo Univ. Urayasu HospS772

4-Po-167	Difference between the thumb motions in carpal tunnel syndrome and
	trapeziometacarpal osteoarthritis
4-Po-168	Evaluation of lunate bone density and strength using quantitative computed tomography and
	finite element analysis
11:00~	v 11: 35 E-poster presentation Sports (ROOM 1) Moderator H. Funasaki
4-Po-169	Anterior glenohumeral capsular ligament reconstruction for anterior instability of the shoulder
4-Po-170	in overhead throwing athletes ···································
4-Po-171	The relationship between Achilles tendon loading and lower limb joint and foot kinematics during single-leg landing ····································
4-Po-172	Efficacy of remnant preservation in anterior cruciate ligament reconstruction and its effects on cyclops lesions and postoperative knee instability ······ <i>Kyohei Ota, et al.</i> , Dept. of Orthop. Surg.,  Nagoya City Univ., Graduate School of Medical Sciences···S775
4-Po-173	Influence of concomitant medial meniscus ramp lesions on postoperative clinical outcomes following anterior cruciate ligament reconstruction
4-Po-174	Do giving way episodes before the anterior cruciate ligament reconstruction increase related injuries: A multicenter study (Chiba LEAF study)
4-Po-175	····· <i>Takuya Sakamoto, et al.</i> , Dept. of Orthop. Surg., Graduate School of Medicine, Chiba Univ.···S776  Anterior tibial subluxation using knee extended load-bearing radiograph could predict knee rotational instability: Chiba LEAF Study
	····· Tsuyoshi Hamada, et al., Dept. of Orthop. Surg., Graduate School of Medicine, Chiba Univ.···S777
11:00~	2.11:40 E-poster presentation RA (ROOM 2) Moderator N. Iwakura
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4-Po-177	Mid-term results of linked-type total elbow arthroplasty
4-Po-178	Risk factors for dislocation after total hip arthroplasty in patients with rheumatoid arthritis <i>Koichi Murata, et al.</i> , Dept. of Orthop. Surg., Graduate School of Medicine, Kyoto UnivS779
4-Po-179	Influence of preoperative disease activity on the incidence of deep vein thrombosis after total knee arthroplasty in patients with RA
4-Po-180	
4-Po-181	<i>Kazuhiro Maeda, et al.</i> , Dept. of Orthop. Surg., The Jikei Univ. School of Medicine S780 Treatment results for inflammatory lower back pain of spondyloarthritis
	Tsutomu Sakuraba, et al., Dept. of Orthop. Surg., Hiraka General HospS780
4-Po-182	Characteristics of poor treatment response in patients with polymyalgia rheumatica
4-Po-183	The impact of grip strength imbalance on frailty diagnosis in patients with rheumatoid arthritis:  A multicenter observational study -T-FLAG-
	······Yoshifumi Ohashi, et al., Dept. of Orthop. Surg., Aichi Medical Univ.···S781

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		p., Chiba Medical Center…S782
4-Po-185	Features of palmar dislocation type in distal radius epiphyseal injury	1 0 4' 11 0700
4-Po-186	Relationship between internalization of femoral head and clinical outcor developmental dysplasia of the hip after open reduction	ne in patients with f Functional Recovery and
4-Po-187	Reconstruction, Faculty of Medicine, Dentistry, and Pharmaceutical Relationship between the timing of the initiation of the Pavlik harness at hip interpositions in DDH patients ····································	nd the disappearance of
4-Po-188	Effect of vosoritide on spinal and lower extremity malalignment in child Kenta Sawamura, et al., Dept. of Orthop./Rheumatol. Cutaneous Surg., Program in Integrated Medicine, Graduate School o	ren with achondroplasia logy, Musculoskeletal and
4-Po-189	Three-dimensional gait analysis after proximal femoral derotational oste with cerebral palsy ····································	eotomy for intoeing gait a, Dept. of Orthop. Surg.,
4-Po-190	Characterization of PD-1/PD-L1 immune checkpoint expression in the pmusculoskeletal Langerhans cell histiocytosis: A retrospective study	pathogenesis of
11:00~	- 11:35 E-poster presentation Osteoporosis (ROOM 4)	Moderator J. Iwamoto
4-Po-191	A Japanese DPC database study of weekend hospitalization of the elderlihip fractures	ly and the outcomes of
4-Po-192	Effectiveness of the all akita association project activities in spreading the service in Akita prefecture	ne fracture liaison
4-Po-193	Osteoporosis care in non-orthopaedic family practice clinics in Niigata c	ity
4-Po-194	Romosozumab significantly increases Hounsfield units of vertebral body teriparatide one year post spine surgery ··· Keiji Wada, et al., Spine Ce	y compared to
4-Po-195	Risk factors for vertebral compression fractures in patients with total hip	p arthroplasty
4-Po-196	Comparison of screwing torque of femoral head and bone density in total arthroplasty patients	al hip
4-Po-197	Bone mineral density in patients with distal radius fractures injured by fDaichi Ota, et al., Dept. of Orth	alls
11:00 ~ Infection		Moderator K. Tsuihiji

4-Po-198 Effect of olanexidine gluconate for postoperative surgical site infection in lower limb extremity surgery ······ Kohei Shimoyama, et al., Dept. of Orthop. Surg., Sapporo Medical Univ. ··· S790

4-Po-199	The usefulness of continuous local antibiotic perfusion therapy based on its bactericidal effect Rikuo Shinomiya, et al., Dept. of Musculoskeletal Traumatology and Reconstructive Surg.,  Graduate School of Biomedical and Health Sciences, Hiroshima UnivS790
4-Po-200	Strengthening surgical site infection control in spine surgery conducted in multisectoral cooperation based on descriptive-epidemiological analysis <i>Hideki Kawamura</i> , et al., Dept. of Infection Control and Prevention, Kagoshima Univ. HospS791
4-Po-201	Efficacy of oranexidine gluconate versus povidone-iodine for the prevention of SSI in adult joint reconstruction surgery
4-Po-202	
4-Po-203	Preparation for spinal surgery may reduce the risk of postoperative delirium Kazuki Sugimoto, et al., Dept. of Orthop. Surg., Faculty of Life Sciences, Kumamoto Univ S792
4-Po-204	Prevalence of the anterior tibial artery passing anterior to the popliteus muscle on knee MRI
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4-Po-205	Factors associated with sacroiliac joint ankylosis in patients with inflammatory bowel disease Yusuke Ohno, et al., Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine, Graduate School of Medicine, Nagoya UnivS794
4-Po-206	Stress changes in the sacroiliac joint associated with hip dysplasia
4-Po-207	Possibility of sarcopenia diagnosis by phase angle
4-Po-208	Association between sarcopenia and nutritional status in rheumatoid arthritis patients:  An evaluation using the CONUT score ····································
4-Po-209	Association between nutritional status and bone mineral density, bone metabolism markers
4-Po-210	Patient background, drug treatment details, and hospital adherence rate of 36 patients with SAPHO syndrome Yuma Saito, et al., Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine, Graduate School of Medicine, Nagoya UnivS796
4-Po-211	Location of the suprascapular notch and insertion of the conoid ligament for creating posterior bone tunnel on the coracoid process
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DP-2	

DP-3	The impact of limb-sparing surgery for malignant bone tumors on the unaffected lower limb
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	Graduate School of Medical and Dental Sciences, Kagoshima Univ.···S802
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	Program in Integrated Medicine, Graduate School of Medicine, Nagova UnivS807

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	······Lang Bai, et al., Dept. of Orthop. Surg., First Affil. Hosp., Xi'an Jiaotong Univ., Xi'an, China···S1205
DP-803	Extracellular matrix-based cryogels seeded with bone mesenchymal stem cell exosomes for
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	····· Joseph Yang, et al., Lab. of Biomed. Eng., I-Shou Univ., Kaohsiung, Taiwan···S1206
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	knee arthroplasty ······ Laurent D. Angibaud, et al., Exactech,
	Advanced Surgical Technologies Dept., Gainesville, FL, USA…S1206
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	A minimally invasive practical technique
	······ Glen Zi Qiang Liau, et al. Dept. of Orthop, Surg., Alexandra Hosp., Singapore, Singapore\$1207

DP-806	Functional outcome of anterior cruciate ligament (ACL) reconstruction following
	pre-reconstruction rehabilitation vs. none rehabilitation: A systematic review & meta-analysis
DP-807	Effects of different necrotic lesion locations on the natural course of non-traumatic femoral head
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DP-808	Radiographic and functional outcomes following resorbable screw augmented suture fixation vs.
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	Laurent D. Angibaud, et al., Exactech, Advanced Surgical Technologies Dept.,
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	······ Chenghan Wu, et al., Dept. of Orthop. Surg., Khoo Teck Puat Hosp., Singapore, Singapore ··· S1215

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	activating ROS production
DP-839	Short segment lumbar surgery improves health-related quality of life without limiting activities of
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