Program of the 53rd Annual Meeting of the Japanese Society for Spine Surgery and Related Research

The First Day—April 18（Thursday）

Room 1

Symposium 1

8：10～9：40

Moderators：M. Yamazaki
T. Kaito

Kindness in Spine Medicine: Medicine-Engineering Collaboration

Symposium 2

9：50～11：20

Moderators：T. Akazawa
Y. Oshita

Kindness in Spine Medicine: Nutrition

Luncheon seminar 1

11：30～12：30 Moderator：**K. Nishida**

Congress President lecture

12：40～13：10 Moderator：**H. Taneichi**

Cultural lecture

13：10～14：10 Moderator：**M. Watanabe**

Special lecture 1

14：20～15：20 Moderator：**Y. Matsuyama**

Symposium 3

15：30～17：00 Moderators：**T. Yamashita**
K. Sairyo

Kindness in Spine Medicine: Exercise

Special Session 1

17：10～18：10 Moderators：**T. Ogata**
N. Nagoshi

Spinal Cord Regeneration - The Cutting Edge

Room 2

Instructional lecture 1

8：10～9：10 Moderator：**H. Takahashi**

The Board Certification System in Japan

Instructional lecture 2

9：20～10：20 Moderator：**H. Nakamura**

Medical Safety Management and Malpactrice

Main Theme 1

10：30～11：20 Moderator：**H. Nojiri**

Lateral vs Posterior Interbody Fusion - My Indications

Luncheon seminar 2

11：30～12：30 Moderator：**M. Koda**

Afternoon seminar 1

14：20～15：20 Moderator：**Y. Yanagibashi**

Instructional lecture 3

15：30～16：30 Moderator：**M. Nakamura**

Imaging Techniques in Central Nervous System Research

Main Theme 2

16：35～17：35 Moderator：K. Ono

Endoscopic Spinal Surgery - Merits & Pitfalls

Main Theme 3

17：40～18：30 Moderator：Y. Kudo

Percutaneous Vertebroplasty - Indications and Limitations

Room 3

Invited lecture 1

9：10～10：10 Moderator：**J. Takahashi**

Invited lecture 2

10：20～11：20 Moderator：**K. Watanabe**

Luncheon seminar 3

11：30～12：30 Moderator：**N. Hosogane**

1-3-LS3-1 Our technique and principle for corrective surgery of adult spinal deformity - especially about anterior column reconstruction……112

K. Fukuda, Dept. of Orthop. Surg., Saiseikai Yokohamashi Tobu Hosp.

Afternoon seminar 2

14：20～15：20 Moderator：**M. Yagi**

1-3-AS2-1 Cement-augmented pedicle screw fixation and Lateral lumbar Interbody Fusion for Lumbar Degenerative Disease Patients with osteoporosis ……112

K. Maruo, et al., Dept. of Orthop. Surg., Hyogo College of Medicine

1-3-AS2-2 Clinical Efficacy and Complications of Cement-augmented Fenestrated Pedicle Screw for Spinal Disease with Osteoporosis. ……113

K. Nakamichi, Keiyu Spine Center, Keiyu Orthop. Hosp.

Invited lecture 3

15：30～16：30 Moderator：**Y. Kawaguchi**

1-3-IL3-1 The Science of Coronal Balancing for Lenke Type 1 and 2 *(Non-AR curve)* AIS Surgery: Preoperative Computation and the Intra-operative Application of UIV and LIV Tilt Angles. ……113

M. K. Kwan, Dept. of Orthop. Surg. (NOCERAL), Univ. of Malaya, Kuala Lumpur, Malaysia

1-3-IL3-2 Endoscopic techniques for multilevel spine Degeneration; Do we need fusion ? ……114

B. A. Darwono, Dept. of Orthop., Gading Pluit Hosp., Jakarta Utara, Indonesia

Symposium 4

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Kindness in Spine Medicine: Pain

1-3-S4-1 Treatment options for patients with axial spondyloarthritis ……114

T. Tomita, Graduate School of Health Sciences, Morinomiya Univ.

1-3-S4-2 Revisiting psychiatric factors influencing Chronic Pain - Including its relationship to nociplastic pain ……115

M. Nishihara, Dept. of Pain Medicine, Aichi Medical Univ.

Room 4

English Presentation Award 1

8：30～9：20 Moderator：**S. Kato**

English Presentation Award 2

9：25～10：25 Moderator：**K. Kitamura**

English Presentation Award 3

10：30～11：20 Moderator：**H. Shigematsu**

Luncheon seminar 4

11：30～12：30 Moderator：**A. Okawa**

Afternoon seminar 3

14：20～15：20 Moderator：**Y. Oshima**

English Presentation Award 4

15：30～16：20 Moderator：**S. Takahashi**

English Presentation Award 5

16：30～17：20 Moderator：**K. Yokota**

Invited lecture 4

17：30～18：30 Moderator：**H. Nagashima**

Room 5

English Presentation Award 6

8：30～9：20 Moderator：K. Tamai

English Presentation Award 7

9：30～10：20 Moderator：S. Tamagawa

English Presentation Award 8

10：30～11：20 Moderator：**S. Demura**

Luncheon seminar 5

11：30～12：30 Moderator：**H. Nagashima**

Afternoon seminar 4

14：20～15：20 Moderator：**M. Yamazaki**

English Presentation Award 9

15：30～16：20 Moderator：**E. Takasawa**

Free Papers 1

16：30～17：30 Moderator：K. Sato

Ligament Ossification 1

Free Papers 2

17：40～18：30 Moderator：H. Murakami

Ligament Ossification 2

Room 6

Free Papers 3

8：30～9：20 Moderator：**H. Suzuki**

Cervical Myelopathy-Evaluation

Free Papers 4

9：30～10：20 Moderator：**T. Hirai**

Cervical Myelopathy 1

Free Papers 5

10：30～11：20 Moderator：**M. Takahata**

Cervical Myelopathy 2

Luncheon seminar 6

11：30～12：30 Moderator：**T. Miyamoto**

Afternoon seminar 5

14：20～15：20 Moderator：**G. Inoue**

Free Papers 6

15：30～16：30 Moderator：**H. Mihara**

Cervical Spine Surgery 1

Free Papers 7

16：30～17：30 Moderator：**H. Iizuka**

Cervical Spine Surgery 2

Free Papers 8

17：40～18：30 Moderator：**H. Inose**

Cervical Myelopathy-Surgery

Room 7

Free Papers 9

8：30～9：20 Moderator：**M. Takaso**

Adolescent Idiopathic Scoliosis（AIS）1

Free Papers 10

9：30～10：20 Moderator：**K. Watanabe**

Adolescent Idiopathic Scoliosis（AIS）2

Free Papers 11

10：30～11：20　　Moderator：**T. Kotani**

Adolescent Idiopathic Scoliosis（AIS）3

Luncheon seminar 7

11：30～12：30　　Moderator：**T. Tomita**

Afternoon seminar 6

14：20～15：20　　Moderator：**Y. Abe**

Free Papers 12

15：30～16：30 Moderator：**T. Tsuji**

Adolescent Idiopathic Scoliosis（AIS）4

Free Papers 13

16：30～17：30 Moderator：**M. Hongo**

Osteoporosis1

Free Papers 14

17：30～18：30 Moderator：**M. Kato**

Osteoporosis 2

Room 8

Free Papers 15

8：30～9：20 Moderator：K. Miyamoto

Adult Spinal Deformity 1

Free Papers 16

9：30～10：20 Moderator：T. Toyone

Adult Spinal Deformity 2

Free Papers 17

10：30～11：20 Moderator：**S. Ebata**

Adult Spinal Deformity 3

Luncheon seminar 8

11：30～12：30 Moderator：**M. Hoshino**

Afternoon seminar 7

14：20～15：20 Moderator：**H. Terai**

Free Papers 18

15：30～16：30 Moderator：**M. Miyazaki**

Adult Spinal Deformity 4

Free Papers 19

16：30～17：30 Moderator：**G. Yoshida**

Adult Spinal Deformity 5

Free Papers 20

17：40～18：30 Moderator：S. Taniguchi

Adult Spinal Deformity 6

Room 9

Free Papers 21

8：30～9：20 Moderator：M. Sekiguchi

Epidemiological Research

Free Papers 22

9：30～10：20 Moderator：**M. Ando**

Spinal Cord Monitoring

Free Papers 23

10：30～11：20 Moderator：**T. Morimoto**

Prevention and Surgical Support for Spinal Surgery Complications

Luncheon seminar 9

11：30～12：30 Moderator：**Y. NAKAO**

Free Papers 24

15：30～16：30 Moderator：**S. Nozawa**

Diffuse Idiopathic Skeletal Hyperostosis（DISH）

Free Papers 25

16：30～17：30 Moderator：**M. Ishihara**

The Impact of Aging and Frailty on Spinal Cord Diseases - Part 1

Free Papers 26

17：40～18：30

Moderator：**Y. Sakai**

The Impact of Aging and Frailty on Spinal Cord Diseases - Part 2

Room 10

Hands-on seminar 1

Prestige LP™ Cervical Artificial Disc Training

9：30～11：00

Moderator：**T. Furuya**

Speaker：**K. Sakai**

Hands on WorkShop：**T. Yoshii**

Hands-on seminar 2

Cervical disc arthroplasty with Mobi-C: hands-on seminar

15：45～17：15

Moderator：K. Ishii

Speaker：D. Sakai

Mini Oral Booth 1

Mini Oral 1

9：00～9：35

Moderator：T. Manako

Surgical Complications 1

Mini Oral 2

9：50～10：25

Moderator：A. Shinohara

Surgical Complications 2

Mini Oral 3

10：40～11：15 Moderator：**K. Mori**

Surgical Complications 3

Mini Oral 4

15：30～16：05 Moderator：**H. Takeuchi**

Surgical Complications 4

Mini Oral 5

16：20～16：55 Moderator：**S. Ikegami**

Reducing Surgical Exposure and Risks

English Mini Oral 1

17：10～17：50 Moderator：**F. Tezuka**

English Mini Oral 2

17：50～18：25 Moderator : **H. Arima**

Mini Oral Booth 2

Mini Oral 6

9：00～9：40　　Moderator：**Y. Yukawa**

Sacrum and Iliosacral Joint

Mini Oral 7

9：50～10：25　　Moderator：**M. Kanamori**

Lumbar Disc Hernia 1

Mini Oral 8

10：40～11：20 Moderator：**T. Hikata**

Lumbar Disc Hernia 2

Mini Oral 9

15：30～16：10 Moderator：**H. Aono**

Lumbar Spinal Canal Stenosis

Mini Oral 10

16：20～17：00 Moderator：**T. Nakazawa**

Evaluation（Lumbar Spine）

Mini Oral 11

17：10～17：50 Moderator：**K. Fushimi**

Treatment（Lumbar Spine）

Mini Oral 12

17：55～18：30

Moderator：**K. Matsudaira**

Chronic Low Back Pain

Mini Oral Booth 3

Mini Oral 13

9：00～9：40 Moderator：**T. Nagai**

Posterior Lumbar Fusion 1

Mini Oral 14

9：50～10：30 Moderator：**H. Funao**

Posterior Lumbar Fusion 2

Mini Oral 15

10：40～11：15 Moderator：**Y. Aoki**

Spine Topics

Mini Oral 16

15：30～16：10 Moderator：**T. Aihara**

Lumbar Spine Surgery 1

Mini Oral 17

16：20～17：00 Moderator：**T. Funayama**

Lumbar Spine Surgery 2

Mini Oral 18

17：10～17：45 Moderator：**T. Furuya**

Lateral Lumbar Surgery 1

Mini Oral 19

17：55～18：25 Moderator：**N. Isogai**

Lateral Lumbar Surgery 2

Mini Oral Booth 4

Mini Oral 20

9：00～9：35 Moderator：**T. Yurube**

Basic Research 1

Mini Oral 21

9：50～10：25　　Moderator：**K. Kadoya**

Basic Research 2

Mini Oral 22

10：40～11：20　　Moderator：**M. Fukuoka**

Imaging

Mini Oral 23

15：30～16：05 Moderator：**O. Tsuji**

Spinal Cord Tumors

Mini Oral 24

16：20～16：55 Moderator：**A. Ono**

Spinal Metastasis 1

Mini Oral 25

17：10～17：40 Moderator：**N. Kamei**

Spinal Metastasis 2

Mini Oral 26

17：55～18：25 Moderator：**H. Toyoda**

Spinal Tumors

The Second Day—April 19（Friday）

Room 1

Special Session 2

9：00～10：00

Moderators：H. Taneichi
T. Kanemura

Utilizing Big Data in Spine Care

Sponsored Symposium

10：30～12：00

Moderators：S. Okada
D. Sakai

Bone Health Optimization in Spine Surgery

Luncheon seminar 10

12：10～13：10 Moderator：**N. Miyakoshi**

Luncheon seminar 19

13：20～14：20 Moderator：**Y. Matsuyama**

JSSR Related Academic Awards

14：30～15：30 Moderators：**H. Haro**
M. Watanabe

JSSR Award（sponsored by Taisho Pharmaceutical Co., Ltd.）-Basic-

JSSR Award（sponsored by Taisho Pharmaceutical Co., Ltd.）-Clinical-

Journal of Spine Research（JSR）Best paper award

SSRR award・Best Paper Award

Researches Initiated by JSSR2024 1

15：40～17：00

Moderators：**T. Kanemura**
H. Hashizume

Researches Initiated by JSSR2024 2

17：10～18：10

Board certification system for spine surgery subspecialty

Moderator：**M. Nakamura**

Moderator：**K. Hida**

Moderator：**N. Tanaka**

Supervisory Doctor's Evening Seminar

18：20～19：20

Moderator：**M. Neo**

Room 2

Instructional lecture 4

8：40～9：40

Moderator：**T. Aizawa**

Current Clinical Guidelines of Spine Ailments 1

Instructional lecture 5

9：50～10：50 Moderator：**H. Yamada**

Current Clinical Guidelines of Spine Ailments 2

Instructional lecture 6

11：00～12：00 Moderator：**H. Nagashima**

Human/Primate-Specific Genes and Their Functions

Luncheon seminar 11

12：10～13：10 Moderator：**S. Okada**

Luncheon seminar 20

13：20～14：20 Moderator：**M. Nakamura**

Instructional lecture 7

14：30～15：30 Moderator：M. Matsumoto

Work System Reform in the Medical Community

2-2-EL7-1 Current Status and Prospects for Work Style Reform for Doctors ……361

H. Baba, Kumamoto Univ. Hosp.

Symposium 5

15：40～17：10 Moderators：K. Ishii
A. Hiyama

Kindness in Spine Medicine: Cervical Spine

2-2-S5-1 Less invasive treatment for dropped head syndrome ……361

K. Endo, Dept. of Orthop. Surg., Tokyo Medical Univ.

2-2-S5-2 Non-surgical treatment for dropped head syndrome -Gait analysis before and after SHAiR program in dropped head syndrome patients- ……362

H. Funao, et al., Dept. of Orthop. Surg., International Univ. of Health and Welfare Narita Hosp.

2-2-S5-3 Quantitative Evaluation of Spinal Balance for Dropped Head using 3D Gait Analysis: Aiming for Optimal Correction of spinal deformity ……362

K. Miura, et al., Dept. of Orthop. Surg., Univ. of Tsukuba

2-2-S5-4 Surgical Strategy for Dropped Head Syndrome. ～Thoracolumbar first strategy～ ……363

Y. Kudo, et al., Dept. of Orthop. Surg., Showa Univ.

2-2-S5-5 Knack and fall of correction surgery for dropped head syndrome ……363

H. Miyamoto, Dept. of Orthop. Surg., Kobe Rosai Hosp.

2-2-S5-6 Simple and easy decision making for cervical kyphotic deformity ……364

J. Mizutani, et al., Dept. of Orthop. Surg., Tokyo Women's Medical Univ., Yachiyo Medical Center

Room 3

Invited lecture 5

8：40～9：40 Moderator：H. Haro

2-3-IL5-1 School-based scoliosis screening in the 21st century ……364

L. L. Lau, National Univ. Hosp., Singapore

2-3-IL5-2 Artificial Disc Replacement in Cervical Myelopathy ……365

T. Bunmaprasert, Dept. of Orthop., Chiang Mai Univ., Chiang Mai, Thailand

Invited lecture 6

9：50～10：50 Moderator：**Y. Matsuyama**

Invited lecture 7

11：00～12：00 Moderator：**M. Nakamura**

Luncheon seminar 12

12：10～13：10 Moderator：**T. Kanemura**

Luncheon seminar 21

13：20～14：20 Moderator：**K. Sato**

Invited lecture 8

14 : 30～15 : 30 Moderator : **K. Chiba**

2-3-IL8-1 Strategies for the management of spinal deformities in skeletal dysplasia and syndromal scolioses ……369

K. M. C. Cheung, Dept. of Orthop. & Traumatology, The Univ. of Hong Kong

2-3-IL8-2 The Rothman Institute Experience: From Basic Science to Clinical Research ……369

J. A. Canseco, et al., Rothman Orthop. Institute, Thomas Jefferson Univ.

APSS-Eurospine-JSSR Symposium

15 : 35～17 : 10 Moderators : **M. Ito**
M. K. Kwan
A. Alanay

What's new in Euro-Asian Spine

2-3-AES-1 Treatment Strategy for Subaxial Minimal Facet Fracture

J.-B. Park, Dept. of Orthop. Surg., The Catholic Univ. of Korea College of Medicine, Seoul, Korea

2-3-AES-2 Lumbar disc replacement - Indications, techniques and Outcomes

D. H. H. Weng, Dept. of Orthop. Surg., National Univ. Hosp., National Univ. of Singapore, Singapore

2-3-AES-3 The use of minimally invasive stabilization in fractures and pathological conditions of the spine

C-K. Chiu, Dept. of Orthop. Surg., Universiti Malaya, Kuala Lumpur, Malaysia

2-3-AES-4 New modalities in spine surgery

M.-H. Wu, Dept. of Orthop., School of Medicine, College of Medicine, Taipei Medical Univ., Taipei, Taiwan

2-3-AES-5 Emerging technology in contemporary spine surgery

L. Ambrosio, Campus Bio-Medico Univ. of Rome, Roma, Italy

2-3-AES-6 Introduction to AO Spine Research and Knowledge Forum Activities

K. J. Schnake, Center for Spinal and Scoliosis Surg., Malteser Waldkrankenhaus St. Marien, Erlangen, Germany

2-3-AES-7 Collaborative Spine Research Activities in Asia Pacific Region

D. Sakai, Dept. of Orthop. Surg., Surgical Science, Tokai Univ.

Invited lecture 9

17：15～18：15 Moderator：**S. Takahashi**

2-3-IL9-1 Clinical problem of disc agenesis leads to a targeted solution for Discogenic Pain. From Clinic to Bench and Bench to Bed Side - A clinician scientist story of developing GDF6 to avoid Spinal Fusion. ……370

A. D. Diwan, St George & Sutherland Campus, Faculty of Medicine & Health, The Univ. of New South Wales, Kogarah NSW, Australia

2-3-IL9-2 Preventions of Unfavorable Postoperative Changes in Distal Segments after Thoracic Curve Fusion for Adolescent Idiopathic Scoliosis ……370

S.-H. Yang, et al., National Taiwan Univ., Taipei City, Taiwan

Room 4

Main Theme 4

9：10～10：00 Moderator：**T. Oda**

The Effects of Aging and Frailty in Spine Ailments

2-4-M4-1 The Relationship between LS, low back pain, walking speed, and ALM in a general population Cohort in the second survey ROAD Study. ……371

S. Arita, et al., Dept. of Orthop. Surg., Wakayama Medical Univ.

2-4-M4-2 Longitudinal investigation on the causal relationship between changes in trunk muscle area and falls ……371

S. Yoshida, et al., Dept. of Orthop. Surg., School of Medicine, Univ. of Occupational and Environmental Health

2-4-M4-3 Spine-related factor contributing to age-related gait dysfunction ……372

Y. Sakai, et al., Dept. of Orthop. Surg., National Center for Geriatrics and Gerontology

2-4-M4-4 Among sensory organ (sight, hearing, smell, taste) disorders, hearing impairment leads to poor spinal alignment-Yakumo Study-. ……372

S. Ito, et al., Dept. of Orthop./Rheumatology, Musculoskeletal and Cutaneous Surg., Program in Integrated Medicine, Graduate School of Medicine, Nagoya Univ.

2-4-M4-5 A longitudinal cohort study of vertebral fracture and core muscle weakness ……373

H. Okayasu, et al., Dept. of Orthop. Surg., Japanese Red Cross Kitami Hosp.

2-4-M4-6 Significance of neurological examinations for diagnosis of degenerative cervical myelopathy …373

M. Funaba, et al., Dept. of Orthop. Surg., Yamaguchi Univ. Graduate School of Medicine

Main Theme 5

10：10～11：00　　Moderator：**T. Maeda**

The Initial Management of Spine/Spinal Cord Trauma

Main Theme 6

11：10～12：00　　Moderator：**K. Watanabe**

Tackling Complications in Spine Surgery

Luncheon seminar 13

12：10～13：10 Moderator：**S. Imagama**

Luncheon seminar 22

13：20～14：20 Moderator：**A. Minamide**

Main Theme 7

14：40～15：30 Moderator：**H. Ozawa**

Pointers in Spinal Cord Tumor Sugery

Afternoon seminar 8

15：45～16：45 Moderator：**T. Niwa**

Main Theme 8

16：55～17：45 Moderator：**K. Harimaya**

Cutting-Edge Technology in Spine Surgery

Room 5

Morning seminar 1

8：00～9：00 Moderator：**Y. Arai**

Free Papers 27

9：10～10：00 Moderator：**Y. Nakamura**

Adult Spinal Deformity 7/Dropped Head Syndrome 1

Free Papers 28

10：10～11：00 Moderator：H. Suzuki

Drophead Syndrome 2

Free Papers 29

11：10～12：00 Moderator：S. Katoh

Spinal Cord Injury

Luncheon seminar 14

12：10～13：10 Moderator：**T. Saitou**

Luncheon seminar 23

13：20～14：20 Moderator：**S. Ohtori**

Free Papers 30

14：40～15：30 Moderator：**T. Kanchiku**

Spinal Injury

Afternoon seminar 9

15：45～16：45 Moderator：**E. Wada**

Free Papers 31

16：55～17：55 Moderator：**K. Tarukado**

Spinal Cord Injury（Basic Research and Beyond）

Room 6

Morning seminar 2

8：00～9：00 Moderator：**K. Nakanishi**

Free Papers 32

9：10～10：00 Moderator：**Y. Fujiwara**

Cervical Spondylosis

Free Papers 33

10：10～11：00 Moderator：**S. Fujibayashi**

Cervical Spine Surgery-Complicationsb 1

Free Papers 34

11：10～12：00 Moderator：**Y. Murata**

Cervical Spine Surgery-Complicationsb 2

Luncheon seminar 15

12：10～13：10 Moderator：**Y. Kudo**

Luncheon seminar 24

13：20～14：20 Moderator：**S. Orita**

Free Papers 35

14：40～15：30 Moderator：**K. Wada**

Electrophysiology

Afternoon seminar 10

15：45～16：45 Moderator：**N. Kamei**

Free Papers 36

16：55～17：55 Moderator：**S. Tanishima**

Rheumatoid Arthritis and Cervical Spinal Lesions

Room 7

Free Papers 37

9：10～10：10 Moderator：**H. Moridaira**

Adolescent Idiopathic Scoliosis（AIS）5

Free Papers 38

10：20～11：00 Moderator：T. Miyashita

Lumbar Spondylolisthesis

Free Papers 39

11：10～12：00 Moderator：T. Sakai

Lumbar Spondylolysis

Luncheon seminar 16

12：10～13：10 Moderator：**H. Takahashi**

Luncheon seminar 25

13：20～14：20 Moderator：**H. Haro**

Free Papers 40

14：40～15：30 Moderator：**M. Miyagi**

Basic Research 1

Afternoon seminar 11

15：45～16：45 Moderator：**S. Demura**

Free Papers 41

16：55～17：55 Moderator：**H. Sudo**

Basic Research 2

Room 8

Free Papers 42

9：10～10：00 Moderator：K. Otani

Lumbar Canal Stenosis

Free Papers 43

10：10～11：00 Moderator：Y. Ito

Sacroiliac Joint Dysfunction Others

Free Papers 44

11：00～12：00 Moderator：**K. Okuyama**

PLIF/TLIF

Luncheon seminar 17

12：10～13：10 Moderator：**H. Taneichi**

Luncheon seminar 26

13：20～14：20 Moderator：**M. Ito**

Free Papers 45

14：40～15：30 Moderator：**T. Hasegawa**

Spinal Cord Tumor

Afternoon seminar 12

15：45～16：45 Moderator：**K. Uno**

Free Papers 46

16：55～17：55 Moderator：K. Nakanishi

Metastatic Spinal Tumors Multicenter Collaborative Study

Room 9

Free Papers 47

9：10～10：00 Moderator：E. Nakamura

Complications 1

Free Papers 48

10：10～11：00 Moderator：T. Fujiwara

Complications 2

Free Papers 49

11：10～12：00 Moderator：**S. Tsutsui**

Complications 3

Luncheon seminar 18

12：10～13：10 Moderator：**Y. Kawaguchi**

Luncheon seminar 27

13：20～14：20 Moderator：**K. Sairyo**

Free Papers 50

14：40～15：30 Moderator：**N. Wakao**

Complications 4

Afternoon seminar 13

15：45～16：45 Moderator：**K. Kakutani**

Free Papers 51

16：55～17：55

Moderator：**N. Nishida**

Imaging

Room 10

Hands-on seminar 3

OLIF51™ Training

10：00～11：30

Moderator：**M. Tanaka**

Speaker：**S. Orita**

Hands on WorkShop：**M. Takemoto**

Hands-on seminar 4

Theory and practice of percutaneous reduction and fixation for thoracolumbar fractures

14：30～16：00

Moderator：T. Fujiyoshi

Instructor：T. Takigawa

Mini Oral Booth 1

English Mini Oral 3

9：30～10：05

Moderator：Y. Taniguchi

English Mini Oral 4

10：15～10：50 Moderator：**Y. Yamato**

EMO4-1 Surgical considerations for symptomatic Acute thoracic disc herniation. A Single Centre 7 years' Experience and review of the literature. ……481

N. Adsul, et al., Dept. of Spinal Surg., Leeds Teaching Hosp. NHS Trust

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D. Pal, et al., Dept. of Neurosurgery, Leeds General Infirmary, Univ. of Leeds, Leeds. United Kingdom

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