Program of the 55th Annual Meeting of the Japanese Society for Spine Surgery and Related Research

The First Day—April 16（Thursday）

Room 1

Symposium 1

8：10～9：40

Moderators：M. Nakamura
T. Kanemura

The Dawn of JSSR-DB Outputs: Real-world Evidence from a National Spine Registry

Special Lecture 1

10：30～11：30

Moderator：M. Watanabe

Luncheon Seminar 1

11：50～12：50　　Moderator：M. Matsumoto

Experience with the Use of a Modular Pedicle Screw System for AIS and ASD

Congress President Lecture

13：00～13：30　　Moderator：M. Takaso

Cultural Lecture

13：30～14：30　　Moderator：T. Yuki

A Moderated, Candid Conversation with Elite Athletes Who Have Experienced Spinal and Spinal Cord Injuries: What They Want from Healthcare Professionals

Symposium 2

16：30～18：00　　Moderators：M. Sekiguchi
T. Tetsunaga

Advancing Women in Spine Surgery: Professional Development and Career Support

Room 2

Educational Lecture 1

8：10～9：10 Moderator：**S. Ohtori**

Educational Lecture 2

9：20～10：20 Moderator：**S. Okada**

Invited Lecture 1

10：30～11：30 Moderator：**K. Hasegawa**

Luncheon Seminar 2

11：50～12：50 Moderator：**H. Nojiri**

Afternoon Seminar 1

14：40～15：40 Moderator：**J. Mizutani**

Educational Lecture 3

15：50～16：50 Moderator：**M. Koda**

Invited Lecture 2

17：00～18：00 Moderator：**M. Watanabe**

Room 3

Overseas Invited Lecture 1

8：10～9：10 Moderator：D. Sakai

1-3-OIL1-1 Total en bloc resection of the uncinate for cervical spondylotic radiculopathy ……115

K. -S. Suk, Dept. of Orthop. Surg., Yonsei Univ. College of Medicine, Korea（South）

1-3-OIL1-2 THE TRUE SPINE SPECIALTY -MY SPINE DREAM OF MY WHOLE LIFE ……116

T. V. Vo, Hosp. for Trauma-Orthop., HCM City, Vietnam

Overseas Invited Lecture 2

9：20～10：20 Moderator：H. Takahashi

1-3-OIL2-1 Long term results of transforaminal percutaneous endoscopic debridement and drainage（PEDD）for lumbar infectious spondylodiscitis ……116

T. -S. Fu, Orthop. Dept., Chang Gung Memorial Hosp., Linkou, Taiwan

1-3-OIL2-2 OXLIF or（XLIF-AP）: a slight oblique extreme lateral internal body fusion or extreme lateral interbody fusion via ante psoas approach in circumferential mis（cMiS）adult spinal deformity（ASD）surgery ……117

G. Liu, National Univ. Hosp., Singapore

Luncheon Seminar 3

11：50～12：50 Moderator：T. Yoshii

The Frontier of Surgical Evolution - Next-Generation Technology for Tissue Protection -

1-3-LS3-1 Refined Dural Reconstruction Techniques for Preventing CSF Leakage: A New Option Using Porous Collagen Matrix ……117

H. Tominaga, Dept. of Orthop. Surg., Graduate School of Medical and Dental Sciences, Kagoshima Univ.

1-3-LS3-2 Understanding the Strengths and Limitations of Surgical Devices in Spine Surgery ……118

H. Nakashima, Dept. of Orthop. Surg. Nagoya Univ. Graduate School of Medicine

Afternoon Seminar 2

14：40～15：40 Moderator：**T. Kaito**

Overseas Invited Lecture 3

15：50～16：50 Moderator：**H. Chikuda**

Free Papers 1

17：00～18：00 Moderator：**T. Takebayashi**

Cervical Spine Surgery

Room 4

Free Papers 2

8：10～9：10 Moderator：**H. Miyamoto**

Dropped Head Syndrome 1

Free Papers 3

9：20～10：20 Moderator：J. Mizutani

Dropped Head Syndrome 2

Free Papers 4

10：30～11：30 Moderator：K. Sato

Pyogenic Spondylitis

Luncheon Seminar 4

11：50～12：50 Moderator：**N. Kamei**

Afternoon Seminar 3

14：40～15：40 Moderator：**M. Miyazaki**

Free Papers 5

15：50～16：50 Moderator：**K. Otani**

Epidemiology and Functional Assessment

Free Papers 6

17：00～18：00 Moderator：**T. Kanchiku**

Osteoporotic Vertebral Fractures & Thoracolumbar Trauma

Room 5

English Presentation Award 1

8：10～9：15 Moderator：**M. Takahata**

Basic & Materials

English Presentation Award 2

9 : 25～10 : 30

Moderator : **K. Tamai**

AI & Technology

English Presentation Award 3

10 : 40～11 : 40 Moderator : **H. Toyoda**

Endoscopic Surgery

Luncheon Seminar 5

11 : 50～12 : 50 Moderator : **S. Inami**

Afternoon Seminar 4

14：40～15：40　　Moderator：S. Takenaka

Full Endoscopic Spine Surgery（FESS）The journey from introduction to advanced AFESS

English Presentation Award 4

15：50～16：55　　Moderator：H. Arima

ASD：Surgical Results

Free Papers 7

17：05～18：00 Moderator：**M. Uehara**

Pelvis & Sacroiliac Joint

Room 6

English Presentation Award 5

8：10～9：15

Moderator：**J. Ouchida**

AIS & SCI

English Presentation Award 6

9：25～10：30 Moderator：T. Hirai

Upper Cervical & Pediatric

English Presentation Award 7

10：40～11：40 Moderator：S. Kawasaki

Cervical Myelopathy

Luncheon Seminar 6

11：50～12：50 Moderator：**N. Hosogane**

Afternoon Seminar 5

14：40～15：40 Moderator：**T. Kanemura**

English Presentation Award 8

15：50～16：50 Moderator：S. Kato

Safety & Outcomes

Free Papers 8

17：00～18：00 Moderator：S. Tsutsui

Spinal Deformity 1

Room 7

English Presentation Award 9

8：10～9：15 Moderator：**K. Kitamura**

OPLL & Metabolism

English Presentation Award 10

9：25～10：30 Moderator：**K. Akeda**

ASD：Alignment

English Presentation Award 11

10：40～11：40 Moderator：**T. Yurube**

Oncology & Infection

Luncheon Seminar 7

11 : 50～12 : 50 Moderator : **H. Takahashi**

Afternoon Seminar 6

14 : 40～15 : 40 Moderator : **T. Tokioka**

English Presentation Award 12

15 : 50～16 : 50 Moderator : **M. Miyagi**

Lumbar Degenerative

Free Papers 9

17：00～18：00 Moderator：**O. Tsuji**

Spinal Cord Tumors

Room 8

Free Papers 10

8：10～9：10 Moderator：**H. Nojiri**

Perioperative Complication

Free Papers 11

9：20～10：20 Moderator：**M. Teraguchi**

Imaging（MRI）

Free Papers 12

10：30～11：30 Moderator：**Y. Kasukawa**

Ossification of the Ligamentum Flavum

Luncheon Seminar 8

11：50～12：50 Moderator：**K. Hasegawa**

Afternoon Seminar 7

14：40～15：40 Moderator：**Y. Takahashi**

Free Papers 13

15：50～16：50 Moderator：**K. Saita**

Postoperative Complications in Cervical Spine Surgery

Free Papers 14

17：00～18：00 Moderator：**D. Togawa**

Percutaneous Vertebroplasty

Room 9

Main Theme 1

8：10～9：10 Moderator：**S. Kaneko**

Long-Term Results in Spinal Deformity

Main Theme 2

9：20～10：20 Moderator：**H. Ozawa**

Advances in Spinal Infection Management

Main Theme 3

10：30～11：30 Moderator：T. Tachibana

New Technologies in Spine Surgery

Luncheon Seminar 9

11：50～12：50 Moderator：Y. Arai

Why SCS for Postoperative Pain Now? – Basics and Real-World Experience for Orthopedic

Afternoon Seminar 8

14：40～15：40 Moderator：**K. Watanabe**

Main Theme 4

15：50～16：50 Moderator：**M. Hangai**

Diagnosis and Treatment of Chronic Low Back Pain in Athletes

Main Theme 5

17：00～18：00 Moderator：K. Suda

Treatment Strategies for Spinal Cord Injury in the Elderly

Room 10

Luncheon Seminar 10

11：50～12：50 Moderator：Y. Matsuyama

Afternoon Seminar 9

14：40～15：40 Moderator：**K. Watanabe**

Free Papers 15

15：50～16：50 Moderator：**H. Funao**

Trans-Sacral Spinal Canal Plasty

Free Papers 16

17：00～18：00

Moderator：Y. Sakai

Lumbar Disorders, Pain & Functional Impairment

Room 11

Hands-on Seminar 1

OLIF51™ Training

9：20～11：20

Moderator：M. Tanaka

Speakers：S. Orita

Y. Kotani

Hands-on Seminar 2

Prestige LP™ Cervical Artificial Disc Training

15：50～17：50

Moderator：K. Sakai

Speaker：T. Yoshii

Poster Room 1

Poster 1

9：00～9：40

Moderator：H. Imabayashi

Pyogenic Spondylitis 1

Poster 2

9：50～10：30

Moderator：S. Katsumi

Pyogenic Spondylitis 2

Poster 3

10：40～11：20 Moderator：**G. Kumagai**

Diagnosis of Lumbar Degeneration

Poster Room 2

Poster 4

9：00～9：40 Moderator：**M. Ishihara**

Metastatic Spine Tumor 1

Poster 5

9：50～10：30 Moderator：**S. Kato**

Metastatic Spine Tumor 2

Poster 6

10：40～11：20 Moderator：**T. Aihara**

Adult Spinal Deformity

Poster Room 3

Poster 7

9：00～9：40 Moderator：**K. Kiyasu**

Vertebroplasty 1

Poster 8

9：50～10：30 Moderator：**T. Ishikawa**

Vertebroplasty 2

Poster 9

10：40～11：20

Moderator：Y. Yabe

Endoscopic Spine 1

Poster Room 4

Poster 10

9：00～9：40　　Moderator：**Y. Yanagisawa**

Pain 1

Poster 11

9：50～10：30　　Moderator：**H. Suzuki**

Pain 2

Poster 12

10：40～11：20 Moderator：**M. Kato**

Cervical Spine Alignment

Poster Room 5

Poster 13

9：00～9：40 Moderator：**K. Mizutani**

Cement-Augmented Screws 1

Poster 14

9：50～10：30 Moderator：**Y. Ishimoto**

Cement-Augmented Screws 2

Poster 15

10：40～11：20 Moderator：**S. Kawaguchi**

Surgery for Osteoporotic Vertebral Fractures 1

The Second Day—April 17（Friday）

Room 1

Symposium 3

8：10～9：40

Moderators：M. Yamazaki
T. Morimoto

Co-Creating Spine Care through Medical-Engineering Collaboration

Special Lecture 2

10：30～11：30

Moderator：M. Nakamura

Luncheon Seminar 11

11：50～12：50 Moderator：K. Takeshita

Considering Pain Management with Patient Treatment Satisfaction in Mind

Luncheon Seminar 21

13：00～14：00 Moderator：H. Terai

JSSR Related Academic Awards

14：10～15：10 Moderators：M. Nakamura
H. Nagashima

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

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

Journal of Spine Research（JSR）Best Paper Award

Spine Surgery and Related Research（SSRR）Best Paper Award

Symposium 4

15：20～16：50

Moderators：**Y. Aoki**
K. Nakanishi

Clinical Insights in Physical Therapy for Spinal Disorders

Researches Initiated by JSSR2026 1

17：00～17：25

Moderator：**T. Aizawa**

Supervisory Doctor's Evening Seminar

17：30～18：30 Moderator：**T. Maeda**

Room 2

Educational Lecture 4

8：10～9：10 Moderator：**H. Haro**

Symposium 5

10：00～11：30 Moderators：**K. Nishida**, **H. Kanno**

Management of Low Back Pain in Patients with Severe Obesity

Luncheon Seminar 12

11：50～12：50 Moderator：**K. Miyamoto**

2-2-LS12-1 Exploration for spinal deformity treatment with the longest-lasting effect based on mathematical considerations and true professionalism ……324

S. Kaneko, Dept. of Spine and Spinal Cord Surg., Fujita Health Univ.

Luncheon Seminar 22

13：00～14：00 Moderator：**R. Takemasa**

2-2-LS22-1 Minimally invasive spinal reconstruction surgery using vertebral body stenting system for osteoporotic vertebral fractures ……324

A. Minamide, Dept. of Orthop. Surg., Kansai Medical Univ. Medical Center

2-2-LS22-2 The True Value of VBS for Osteoporotic Vertebral Fractures: From Standalone Augmentation to Combined Posterior Fixation and Interbody Fusion ……325

H. Katoh, Dept. of Orthop. Surg., Surgical Science, Tokai Univ.

Educational Lecture 5

14：10～15：10 Moderator：**Y. Kawaguchi**

2-2-EL5-1 Antimicrobial Stewardship in Spinal Infections: Based on ICM 2025 Recommendations ……325

T. Taniguchi, Dept. of ID, Chiba Univ. Hosp.

Educational Lecture 6

15：20～16：20 Moderator：**M. Matsumoto**

2-2-EL6-1 Insurance Coverage of New Medical Technologies: Current Status and Challenges ……326

Y. Ishikawa, et al., MHLW

Educational Lecture 7

16：30～17：30 Moderator：**H. Takahashi**

2-2-EL7-1 Learning “Law” and “Ethics” through Court Cases - In the Field of Spinal Cord Disorders ……326

Y. Munakata, Sekiya & Munakata LAW OFFICE

Room 3

Morning Seminar 1

7：00～8：00 Moderator：K. Sasaki

Free Papers 17

8：10～9：20 Moderator：S. Orita

Basic Research on Intervertebral Discs

Free Papers 18

9：30～10：20　　Moderator：**G. Yoshida**

Neuromonitoring 1

Free Papers 19

10：30～11：30　　Moderator：**M. Takami**

Neuromonitoring 2

Luncheon Seminar 13

11：50～12：50 Moderator：**T. Nikaido**

Occupational Radiation Exposure in Spine Surgeons and Strategies for Dose Reduction

Luncheon Seminar 23

13：00～14：00 Moderator：**S. Ohtori**

Free Papers 20

14：10～15：10 Moderator：**T. Miyamoto**

Osteoporosis

Free Papers 21

15：20～16：20 Moderator：**A. Yamazaki**

Osteoporotic Vertebral Fractures 1

Free Papers 22

16：30～17：30 Moderator：K. Maruo

Osteoporotic Vertebral Fractures 2

Room 4

Free Papers 23

8：10～9：20 Moderator：N. Wakao

Ligamentum Flavum Hypertrophy & Ossification

Free Papers 24

9：30～10：20 Moderator：**H. Iwasaki**

Nerve Blocks and Injections

Free Papers 25

10：30～11：30 Moderator：**T. Mihara**

Imaging

Luncheon Seminar 14

11：50～12：50 Moderator：**T. Kotani**

Spinal Surgery and Vertebral Fracture Liaison Services: What Today's Spine Surgeons Should Know

Luncheon Seminar 24

13：00～14：00 Moderator：**S. Demura**

Free Papers 26

14：10～15：10 Moderator：**T. Oda**

Spine Surgery in the Elderly

Free Papers 27

15：20～16：20 Moderator：T. Kotani

Adult Spinal Deformity 1

Free Papers 28

16：30～17：30 Moderator：S. Inami

Adult Spinal Deformity 2

Room 5

Free Papers 29

8：10～9：20 Moderator：Y. Yamato

Spinal Alignment and Lower Extremities

Free Papers 30

9：30～10：20 Moderator：**T. Sakai**

Lumbar Spinal Stenosis, Locomotive Syndrome & Physical Function

Free Papers 31

10：30～11：30 Moderator：S. Yabuki

Lumbar Spine Disorders/Epidemiology

Luncheon Seminar 15

11：50～12：50 Moderator：Y. Oshima

The cutting edge of endoscopic spinal fusion

Luncheon Seminar 25

13：00～14：00 Moderator：**M. Iwasaki**

Free Papers 32

14：10～15：10 Moderator：**Y. Oshima**

Laminectomy

Free Papers 33

15：20～16：20 Moderator：A. Suzuki

Metastatic Spine Tumor 1

Free Papers 34

16：30～17：30 Moderator：S. Fujibayashi

Metastatic Spine Tumor 2

Room 6

Invited Lecture 3

8：10～9：10 Moderator：**Y. Matsumoto**

Invited Lecture 4

9：20～10：20 Moderator：**M. Ito**

Overseas Invited Lecture 4

10 : 30～11 : 30 Moderator : **S. Demura**

Luncheon Seminar 16

11 : 50～12 : 50 Moderator : **H. Kanno**

Screw Augmentation with Artificial Bone in Spinal Fusion Surgery

Luncheon Seminar 26

13 : 00～14 : 00 Moderator : **M. Yagi**

Invited Lecture 5

14 : 10～15 : 10 Moderator : **S. Imagama**

Invited Lecture 6

15：20～16：20 Moderator：**K. Watanabe**

International Proposed Lecture

16：30～17：30 Moderator：**K. Miyamoto**

Room 7

Free Papers 35

8：10～9：20 Moderator：**S. Takahashi**

Bone Fusion

Free Papers 36

9：30～10：20 Moderator：**M. Kanayama**

Cement-Augmented Screws

Researches Initiated by JSSR2026 2

10：30～11：25 Moderator：**Y. Ito**

Luncheon Seminar 17

11：50～12：50 Moderator：**N. Hara**

The Future of Minimally Invasive Endoscopic Spine Surgery: Evolving Surgical Decision -Making and Outcomes

Luncheon Seminar 27

13：00～14：00 Moderator：**K. Fujiyoshi**

Spinal Cord Stimulation（SCS）: Why It Matters for Spine Surgeons

Free Papers 37

14：10～15：10 Moderator：**K. Watanabe**

Spinal Deformity 2

Researches Initiated by JSSR2026 3

15：20～16：05 Moderator：**T. Yoshii**

Researches Initiated by JSSR2026 4

16：05～16：50 Moderator：**N. Hosogane**

Room 8

Morning Seminar 2

7：00～8：00 Moderator：D. Togawa

Surgical Treatment of Vertebral Fractures from the Perspective of Patient Satisfaction: How Effective is BKP?

Free Papers 38

8：10～9：20 Moderator：M. Chazono

Spinal Deformity 3

Free Papers 39

9：30～10：30 Moderator：**S. Seki**

Spinal Deformity 4

Free Papers 40

10：40～11：30 Moderator：**E. Nakamura**

Surgical Site Infections Prevention & Others

Luncheon Seminar 18

11：50～12：50 Moderator：**M. Nakamura**

Differential Diagnosis of Peripheral Nerve and Neuromuscular Disorders Mimicking Spine Disease

Luncheon Seminar 28

13：00～14：00 Moderator：K. Nishida

Update on Endoscopic Spine Surgery

Free Papers 41

14：10～15：10 Moderator：H. Mihara

Anterior Cervical Surgery

Free Papers 42

15：20～16：20 Moderator：**I. Oda**

Cervical Spine

Free Papers 43

16：30～17：30 Moderator：K. Ono

Endoscopic Spine

Room 9

Main Theme 6

8：10～9：10 Moderator：S. Ebata

Treatment Strategies for Metastatic Spinal Tumors in the Elderly

Main Theme 7

9：20～10：20 Moderator：**D. Kudo**

Surgery for Spinal Ligament Ossification

Main Theme 8

10：30～11：30 Moderator：**Y. Fujiwara**

Registry & Multicenter Spine Research

Luncheon Seminar 19

11：50～12：50 Moderator：**H. Murakami**

Toward a New Era of Spinal Surgery
– Updating Surgical Techniques and Strategies for Today's Diverse and Advanced Spine Care –

Luncheon Seminar 29

13：00～14：00 Moderator：S. Ebara

Next-Generation Spine Surgery with Siemens Healthineers

Main Theme 9

14：10～15：10 Moderator：T. Ushida

Multidisciplinary Spine Care

Main Theme 10

15：20～16：20 Moderator：K. Kakutani

Regenerative Medicine for the Spine

Main Theme 11

16：30～17：30 Moderator：K. Harimaya

Prevention of Complications in Spine Surgery for the Elderly

Room 10

Morning Seminar 3

7：00～8：00 Moderator：**T. Ono**

Sponsored Symposium

8：10～9：40 Moderators：**S. Imagama**
D. Sakai

Japanese Approach! Implementing Bone Health Optimization in Spinal Surgery for the Elderly

Free Papers 44

10：30～11：30 Moderator：**H. Uei**

Tips and Techniques for Screw Insertion 1

Luncheon Seminar 20

11：50～12：50 Moderator：**S. Orita**

Digital Transformation and AI in Surgical Practice

Luncheon Seminar 30

13：00～14：00 Moderator：T. Morimoto

2-10-LS30-1 Spinal Surgery in the Hybrid Operating Room Era: The Evolution of Instrumentation Brought by Navigation and Robot Implementation ……472

K. Kobayashi, Dept. of Orthop. Surg. Japan Red Cross Nagoya Daini Hosp.

Hands-on Seminar 4

Trans-Sacral Canal Plasty Hands-on Seminar

15：20～16：50 Speakers：K. Yokosuka
K. Nakanishi

Room 11

Hands-on Seminar 3

Advances in BKP Technology and Technqiues

9：50～11：20 Moderator：D. Togawa
Speakers：Y. Nakagawa
S. Makio
S. Takahashi

Hands-on Seminar 5

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

15：20～16：50 Moderator：K. Ishii
Speaker：D. Sakai

Poster Room 1

Poster 16

8：30～9：00 Moderator：T. Fujimori

Postoperative Complications in Cervical Spine Surgery

Poster 17

9：10～9：40 Moderator：H. Inose

Surgery for Osteoporotic Vertebral Fractures 2

Poster 18

9：50～10：30 Moderator：**T. Sasagawa**

Prognosis of Osteoporotic Vertebral Fractures

Poster 19

10：40～11：25

Moderator：S. Nozawa

Implant-related Complications

Poster 20

14：20～15：00 Moderator：**K. Kobayashi**

Perioperative Complication 1

Poster 21

15：10～15：50 Moderator：**D. Takeuchi**

Perioperative Complication 2

Poster 22

16：00～16：40 Moderator：**K. Mori**

Perioperative Complication 3

Poster Room 2

Poster 23

8：30～9：00 Moderator：**H. Hamanaka**

Epidural Hematoma

Poster 24

9：10～9：40 Moderator：**T. Hikata**

Lumbar Disc Herniation

Poster 25

9：50～10：30 Moderator：**K. Yamada**

Surgical Prognosis Prediction

Poster 26

10：40～11：25 Moderator：**H. Shigematsu**

Spinal Alignment

Poster 27

14：20～15：00 Moderator：**B. Otsuki**

Spinal Deformity/Adult Spinal Deformity

Poster 28

15：10～15：50 Moderator：**K. Sakai**

Ossification of Ligaments & Others

Poster 29

16：00～16：40 Moderator：**A. Hiyama**

Bone Quality Evaluation

Poster Room 3

Poster 30

8：30～9：00 Moderator：T. Morino

Diffuse Idiopathic Skeletal Hyperostosis（DISH）

Poster 31

9：10～9：40 Moderator：T. Nakamae

Evaluation of Osteoporosis 1

Poster 32

9：50～10：30 Moderator：**T. Miyashita**

Long-term Outcomes of Spinal Fusion

Poster 33

10：40～11：20 Moderator：**M. Kashii**

Evaluation of Osteoporosis 2

Poster 34

14：20～15：00 Moderator：**T. Banno**

Intervertebral Disc Disorder Treatment

Poster 35

15：10～15：50 Moderator：**K. Miyamoto**

Upper Cervical Spine 1

Poster 36

16：00～16：40 Moderator：**T. Hayashi**

Upper Cervical Spine 2

Poster Room 4

Poster 37

8：30～9：00 Moderator：T. Takeuchi

Osteoporosis Treatment

Poster 38

9：10～9：40 Moderator：M. Yoshimoto

Endoscopic Spine（Fusion）2

Poster 39

9：50～10：30 Moderator：**O. Kawano**

Spinal Trauma

Poster 40

10：40～11：20 Moderator：**S. Ikegami**

Muscle Mass and Strength Evaluation

Poster 41

14：20～15：00 Moderator：**H. Aono**

Lumbar Fusion 1

Poster 42

15：10～15：50 Moderator：**T. Nagai**

Lumbar Fusion 2

Poster 43

16：00～16：40 Moderator：**H. Iizuka**

Posterior Cervical Surgery

Poster Room 5

Poster 44

8：30～9：00 Moderator：**M. Hoshino**

Physician Workstyle & Workflow Reform

Poster 45

9：10～9：40 Moderator：**T. Manako**

Spine Surgery in the Elderly

Poster 46

9：50～10：30 Moderator：**K. Yamashita**

Robot-Assisted Surgery

Poster 47

10：40～11：20 Moderator：N. Isogai

Spinal and Vascular Morphology

Poster 48

14：20～15：00 Moderator：S. Suzuki

Spinal Deformity 1

Poster 49

15：10～15：50 Moderator：**M. Miyazaki**

Spinal Deformity 2

Poster 50

16：00～16：40 Moderator：**T. Tsuji**

Spinal Deformity 3

Room 1

Symposium 6

8：10～9：40

Moderators：T. Tomita
N. Kamei

Practical Tips for Minimally Invasive Surgery

Symposium 7

10：00～11：30

Moderators：Y. Matsuyama
K. Nakanishi

Long-Term Results of Spinal Deformity Surgery: Pros and Cons

Room 2

Morning Seminar 4

7：00～8：00 Moderator：**A. Minamide**

Educational Lecture 8

8：10～9：10 Moderator：**N. Miyakoshi**

Invited Lecture 7

9：20～10：20 Moderator：**Y. Kawaguchi**

Main Theme 12

10：30～11：30 Moderator：**M. Doita**

Medical-Engineering Collaboration

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