

PROGRAM

Room1 Morioka Civic Cultural Hall (Main Hall)

Thursday October 30th

8:55–9:00 Opening Remarks

President: Ken Yamazaki.MD

9:05–9:45 Theme1 : Postoperative Complication

Moderators : Ikuho Yonezawa.MD, Toshiaki Kotani.MD

M-1. Apex of deformity for PVCR. Does it matter in the occurrence of complications ? (Page133)

Mitsuru Yagi,et al.

Department of Orthopedic Surgery, National Hospital Organization Murayama Medical Center

M-2. Distal adding-on in Lenke 1A adolescent idiopathic scoliosis (Page134)

Ayato Nohara,et al.

The Department of Orthopedics and Spine Surgery, Meijo Hospital

M-3. The risk factor of the excessive intraoperative bleeding in adult spinal deformity surgery (Page135)

Tomohiko Hasegawa, et al.

Department of Orthopaedic surgery, Hamamatsu University School of Medicine

M-4. Neurological complications incidental to spinal deformity correction.- Reliability of single-modal monitoring of motor evoked potentials following transcranial electrical stimulation. (Page136)

Takuya Yamamoto,et al.

The Department of Orthopaedic Syrgery, University of Kagoshima

M-5. Morbidity & Mortality 2012 of Japanese Scoliosis Research Society (Page137)

Katsushi Takeshita,et al.

Orthopaedic Surgery, Jichi Medical University

9:45–10:25 Theme 2 : Early Onset Scoliosis

Moderators : Taichi Tsuji.MD, Kota Watanabe.MD

M-6. Continued study of conservative therapy with dynamic spinal brace for spinal deformity in children under age six (Page138)

Ichiro Kajiura, et al.

Osaka Developmental Rehabilitation Center, Minami Osaka Children's
Rehabilitation Hospital

M-7. Clinical outcome of the growing rod techniques in treatment of early onset scoliosis with prior foundation establishment (Page139)

Makoto Ohe et al.

Department of Orthopaedic Surgery, Dokkyo Medical University

M-8. Clinical outcome of dual growing rod procedure: 13 case reports (Page140)

Kensuke Shinohara, et al.

The Department of Orthopaedic Surgery, Okayama University Hospital

M-9. Long-term quality of life after early fusion surgery in congenital scoliosis patients: a multicenter study (Page141)

Toshiaki Kotani, et al.

Department of Orthopedic Surgery, Seirei Sakura Citizen Hospital

M-10. Prognostic factor of infantile scoliosis (Page142)

Toru Yamaguchi, et al.

Department of Orthopaedic and Spine surgery, Fukuoka children's hospital

10:25– 10:35 Intermission

10:35– 11:35 Yamada Inoue Memorial Lecture (Page93)
Yutaka Nohara.MD, Moderator: Ken Yamazaki.MD

11:35– 11:50 Intermission

11:50– 12:50 Luncheon Seminar1 : Current Controversies and Challenges in Early Onset Spinal Deformity (Page97)
Suken A. Shah.MD
Alfred I. duPont Hospital for Children, Department of Orthopaedics, Wilmington, Delaware USA
Moderator: Katsushi Takeshita.MD

12:50– 13:00 Intermission

13:00– 14:00 Invited Lecture 1 : Management of Early Onset Deformities: Current Concepts (Page94)
Muharrem Yazici.MD
Hacettepe University Faculty of Medicine, Ankara, Turkey
Moderator :Haruhisa Yanagida.MD

14:00– 14:05 Intermission

14:05– 15:25 Symposium 1 : Early Onset Scoliosis

Moderators: Noriaki Kawakami.MD, Uno Koki.MD

S-1-1. Conservative treatment for early onset scoliosis (Page109)

Taichi Tsuji,et al.

Dept.of Orthopaedic & Spine Surgery, Meijo Hospital

S-1-2. The treatment of early onset scoliosis with VEPTR (Page110)

Noriaki Kawakami,et al.

Department of Orthopedics & Spine Surgery,Meijo Hospital

S-1-3. Comparison of clinical results between growing rod and Shilla by a single surgeon (Page111)

Teppei Suzuki,et al.

Department of Orthopaedic Surgery, Kobe Medical Center

S-1-4. Problems of growing-rod treatments: results of patients who completed rod lengthening (Page112)

Kota Watanabe,et al.

Dept. of advanced treatment for spine and spinal cord disorders

S-1-5. Clinical results of posterior hemivertelectomy (Page113)

Masato Tanaka,et al.

The department of Orthopedic Surgery, Okayama University

S-1-6. Growing rods for early onset scoliosis in Marfan syndrome and neurofibromatosis (Page114)

Haruhisa Yanagida,et al.

Department of Orthopaedic and Spinal Surgery, Fukuoka Children's Hospital

S-1-7. Growing rod for syndromic spinal deformity in young children (Page115)

Masashi Takaso,et al.

Department of Orthopaedic Surgery, Kiatasato University

15:25– 15:30 Intermission

15:30– 16:20 Theme 3 : Biomaterials

Moderators: Masashi Takaso.MD, Kazuhiro Hasegawa.MD

M-11. Safety of pedicle screws and spinal instrumentation for pediatric patients, comparative analysis between 0-5 years, 5-10 years and 10-15 years (Page143)

Takahito Fujimori, et al.
Department of Orthopedic Surgery, Sumitomo Hospital

M-12. Optimal design of a new porous titanium intervertebral spacer to obtain physiological trabecular orientation (Page144)

Katsuhisa Yamada, et al.
Department of Spine and Spinal Cord Disorders, National Hospital Organization, Hokkaido Medical Center

M-13. Posterior correction and fusion using autologous bone graft with β -tricalcium phosphate for adolescent idiopathic scoliosis (Page145)

Shuichiro Ueda, et al.
Department of Orthopaedic Surgery, Niigata University Medical and Dental General Hospital

M-14. The efficacy of beta-tricalcium phosphate as bone graft substitute in the posterior surgery for idiopathic scoliosis (Page146)

Masashi Wakasugi, et al.
Division of Orthopedic Surgery, Niigata University graduate school of medical and dental sciences

M-15. Comparison of titanium rod versus CoCr rod for treating AIS patients with posterior spinal fusion: randomized controlled trial (second report) (Page147)

Jun Takahashi, et al.
Department of Orthopaedic Surgery, Shinshu University, School of Medicine

M-16. Heavy metal concentrations in hair after scoliosis surgery with cobalt-chromium alloy implants (Page148)

Ruriko Kumagai, et al.
Department of Orthopaedic Surgery, Iwate Medical University

16:20– 17:20 Oral Presentation 3+5 : Congenital Scoliosis, Early Onset Scoliosis

Moderator: Teppei Suzuki. MD

O-31. "Coupling failure" as the fourth category of classification in congenital spinal deformity (Page205)

Noriaki Kawakami, et al.
Department of Orthopedics & Spine Surgery, Meijo Hospital

O-32. Treatment of congenital scoliosis with severe kyphosis - Rib-based growth-sparing surgery with osteotomy in the peri-apical area- (Page206)

Toshiki Saito,et al.

Dept. Orthopaedics and Spine Surgery, Meijo Hospital

O-33. Far lateral single growing rod for early onset scoliosis : A report of the new technique and super early result (Page207)

Atsushi Murata,et al.

Department of Pediatric Orthopaedics and Spine, Fukui Prefectural Rehabilitation Center for Children with Disabilities

O-34. Early definitive spinal fusion surgery of early onset scoliosis with Neurofibromatosis type 1 (Page208)

Ryoji Tauchi,et al.

Department of Orthopaedics Surgery

O-35. Perioperative complications of pediatric spinal surgery for high-risk patients. (Page209)

Masaaki Ito,et al.

The Department of Orthopaedic Surgery, Graduate School of Medicine, Kobe University

17:20– 17:30 Intermission

17:30– 18:30 Evening Seminar 1 : (Page104)

Akihiko Chiba Ph.D

Moderator: Takao Hanawa Ph.D

Friday October 31st

8:30–9:30 Oral Presentation 8 : School Screening

Moderator : Hiroshi Kuroki.MD

- O-57. An analysis of school scoliosis screening in Ehime prefecture:examination for the past 15 years (Page231)
Tadao Morino, et al.
Spine Center, Ehime University Hospital
- O-58. The change of prevalence of adolescent scoliosis based on school screening data in Nara city (Page232)
Hideki Shigematsu, et al.
Department of Orthopaedic Surgery
- O-59. The investigation using questionnaire about the scoliosis school screening in Tokyo metropolitan area (Page233)
Yasuhisa Arai
Department of Orthopaedic Surgery, Tokyo Metropolitan Rehabilitation Hospital
- O-60. The availability of school screening for scoliosis and its role in the decision to seek medical attention (Page234)
Akiko Misawa, et al.
Department of Orthopaedic Surgery, Akita Prefectural Center on Development and Disability
- O-61. The intraobserver reliability of the new quantitative analysis system of hump (Page235)
Yukitoshi Shimamura, et al.
The Department of Orthopaedic Surgery, University of Juntendo
- O-62. Sagittal alignment in children with limitation of anterior bending (Page236)
Bunichiro Izumi, et al.
Department of Orthopaedic Surgery, Hiroshima city Asa hospital
- O-63. A new evaluation of the lumbar kyphosis (Page237)
Yasuhiro Izumi
Izumi Orthopedic Clinic

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- 9:30– 10:30 Invited Lecture 2 : The Search for Optimal Correction in AIS: Classification, Imaging and Operative Techniques (Page95)

Suken A. Shah MD

Alfred I. duPont Hospital for Children, Department of Orthopaedics, Wilmington,
Delaware USA

Moderator : Hiroshi Taneichi.MD

10:30– 10:35 Intermission

10:35– 11:55 Symposium 2 : Adolescent Idiopathic Scoliosis

Moderators : Morio Matsumoto.MD, Manabu Ito.MD

S-2-1. Susceptibility genes of adolescent idiopathic scoliosis. The present state of genetic test (Page116)

Yohei Takahashi, et al.

Dept. of Orthop. Surg., Keio Univ

S-2-2. Current status of brace treatment in patients with adolescent idiopathic scoliosis (Page117)

Hiroshi Kuroki, et al.

Department of Orthopaedic Surgery, Miyazaki Higashi National Hospital

S-2-3. Assessment of idiopathic scoliosis (Page118)

Katsushi Takeshita

Department of Orthopaedic Surgery, Jichi Medical University

S-2-4. Long-term clinical outcomes of surgery for adolescent idiopathic scoliosis (Page119)

Tsutomu Akazawa, et al.

Department of Orthopedic Surgery, Seirei Sakura Citizen Hospital

S-2-5. Short-term results of segmental pedicle screw method for adolescent idiopathic scoliosis comparing to long-term results of hybrid method (Page120)

Takahiro Iida, et al.

The Department of Orthopaedic Surgery, Dokkyo Medical University

Koshigaya Hospital

S-2-6. Computer-assisted skip pedicle screw fixation for adolescent idiopathic scoliosis (Page121)

Jun Takahashi, et al.

Department of Orthopaedic Surgery, Shinshu University, School of Medicine

S-2-7. Anterior correction and fusion surgery for AIS with Lenke 5C curve (Page122)

Hiroshi Taneichi, et al.

Dokkyo Medical University orthopaedic surgery

11:55–12:10	Intermission
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12:10–13:10	Luncheon Seminar 2 : Anterior Surgery for Idiopathic Scoliosis: Is It Still Relevant? (Page98) Hee-kit Wong, MD National University of Singapore Moderator : Hideki Murakami.MD
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13:10–13:15	Intermission
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13:15–13:30	General Meeting
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13:30–13:35	Intermission
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13:35–14:30	Promotion DVD
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14:30–14:35	Intermission
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14:35–15:10	Theme 4 : Conservative Treatment for AIS Moderators : Yasuhisa Arai.MD, Tsutomu Akazawa.MD
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- M-17. Outcomes of night brace treatment for adolescent idiopathic scoliosis (Page149)
 Yoshihiro Dogaki, et al.
 Department of Orthopedic Surgery, National Hospital Organization, Kobe Medical Center
- M-18. Effectiveness of brace treatment of curve progression in adolescent idiopathic scoliosis (Page150)
 Shigeta Morioka, et al.
 Department of Orthopaedic Surgery, St. Marianna University School of Medicine
- M-19. Efficacy and limitation of brace treatment for idiopathic scoliosis over 40 degrees (Page151)
 Toru Hirano, et al.
 Dept. of Orthopedic Surgery, Niigata Univeristy Medical and Dental Hospital
- M-20. Effectiveness of brace treatment for adlescent idiopathic scoliosis with curve larger than 40 degrees (Page152)
 Toru Maruyama, et al.
 Department of Orthopaedic Surgery, Saitama Medical Center, Saitama Medical University

15:10– 16:10 Theme5 : Surgical Treatment for AIS

Moderators : Masato Tanaka.MD, Jun Takahashi.MD

M-21. Surgical correction of scoliosis using derotation maneuver in patients with adolescent idiopathic scoliosis (Page153)

Noriaki Kawakami, et al.

Department of Orthopedics & Spine Surgery,Meijo Hospital

M-22. Short fusion strategy and shoulder balance in Lenke type 1 adolescent idiopathic scoliosis (Page154)

Morio Matsumoto, et al.

Dept. of Orthopaedic Surgery, Keio University

M-23. Is posterior pedicle screw fixation superior to anterior spinal fusion for treatment of Lenke 5C adolescent idiopathic scoliosis? (Page155)

Eijiro Okada, et al.

The Department of Orthopaedic Surgery, Keio University

M-24. Correction of axial rotation after selective thoracic fusion between different surgical procedures in adolescent idiopathic scoliosis (Page156)

Satoru Demura,et al.

Department of orthopaedic surgery, University of Kanazawa

M-25. Surgical results of idiopathic scoliosis using in situ contouring technique combine with rod rotation maneuver (Page157)

Hiroshi Takei, et al.

Yamagata Institute of Spine and Spinal Disorders, Miyukikai Hospital

M-26. Surgical outcomes of posterior fusion for adolescent idiopathic thoracic scoliosis: Does use of pedicle screws have merits and demerits? (Page158)

Kei Watanabe, et al.

Department of Orthopaedic Surgery, Niigata University Medical and Dental General Hospital

M-27. Optimal surgical care for adolescent idiopathic scoliosis in 2013: an international consensus (Page159)

Manabu Ito, et al.

Department of Spine and Spinal Cord Disorders, National Hospital Organization Hokkaido Medical Center

16:10– 16:15 Intermission

16:15– 16:50 Theme6 : Locomotive Syndrome and Adult Deformity

Moderators : Masafumi Machida.MD, Toru Hirano.MD

M-28. Relationship between sagittal spinopelvic alignment classification and physical function in a community-based female cohort (Page160)

Hisashi Chiba, et al.

Department of Rehabilitation, Furano Kyokai Hospital

M-29. The impact of spinal sagittal alignment on locomotive syndrome in middle aged and elderly women (Page161)

Akio Muramoto, et al.

Department of Spine Surgery, Kariya Toyota General Hospital

M-30. A study on health-related QOL and musculoskeletal ambulation disability symptom complex with adult spinal deformity (Page162)

Takashi Tobinaga, et al.

Department of Rehabilitation, Dokkyo University Koshigaya Hospital

M-31. TOEI-study: Relationship between spinopelvic alignment and the 25-question geriatric locomotive function scale (Locomo25) (Page163)

Daisuke Togawa, et al.

Department of Orthopaedic Surgery, Hamamatsu University School of Medicine

16:50– 17:25 Theme7(1) : Spinal Balance and Parameters

Moderators : Yoichi Aota.MD, Hideo Hosoe.MD

M-32. Analysis of the sagittal spinal alignment in patient with degenerative lumbar scoliosis (Page164)

Mitsuru Yagi, et al.

Department of Orthopedic Surgery, National Hospital Organization Murayama Medical Center

M-33. The relationship between iliopsoas, multifidus muscles and spinopelvic parameters (Page165)

Tomohiro Banno, et al.

Orthopaedic Department, Hamamatsu University School of Medicine

M-34. Analysis of sagittal spinopelvic alignment in elders with osteoporotic thoracolumbar kyphosis (Page166)

Shinichi Inoue, et al.

Department of Orthopaedic Surgery, Hyogo College of Medicine

M-35. The impact of the change of pelvic obliquity after THA on the coronal alignment of the spine (Page167)

Yuichiro Abe, et al.

Dept. of Orthop. Surg., Eniwa Hospital

17:25– 17:55 Oral Presentation 2(2) : Adult Deformity

Moderator : Ryuichi Takemasa.MD

O-20. The evaluation of early complication of multi-level spinal fixation- with a focus on the adjacent segment disease- (Page194)

Koichiro Maeno, et al.

Department of Orthopaedic. Surgery., Kobe University Graduate School of Medicine

O-21. Proximal junctional kyphosis after posterior corrective surgery for the patients with adult spinal deformity (Page195)

Akira Matsumura, et al.

Department of Orthopaedic Surgery, Osaka City General Hospital

O-22. Proximal junctional kyphosis in the adult spinal deformity cases with long spinal fusion from lower thoracic to ilium (Page196)

Tatsuya Yasuda, et al.

Department of Orthopaedic Surgery, Hamamatsu University School of Medicine

O-23. Clinical investigation of rod breakage after instrumented corrective fusion from high thoracic to sacrum or ilium for adult spinal deformity (Page197)

Nodoka Manabe, et al.

Gunma Spine Center (Harunaso Hospital)

17:55– 18:00 Intermission

18:00– 19:00 Evening Seminar 2 : (Page106)

Yoichi Shimada.MD

Moderator : Kazumasa Ueyama.MD

Saturday November 1st

8:30–9:30 Theme 7(2) : Spinal Balance and Parameters

Moderators: Takuya Yamamoto.MD, Hideo Hosoe.MD

M-36. Dynamic sagittal balance and change of pelvic angle evaluated by 3-dimensional gait analysis in patients with degenerative lumbar kyphosis (Page168)

Yo Shiba ,et.al.

Dokkyo Medical University orthopaedic surgery

M-37. The first report on normal sagittal spinopelvic alignment of Japanese population using a new slot-scanning X-ray imager (EOS) (Page169)

Kazuhiro Hasegawa,et.al.

Niigata Spine Surgery Center

M-38. Sagittal spino-pelvic alignment in young Japanese. Consideration with less than 10 degrees Cobb angles in the secondary scoliosis screening. (Page170)

Takayuki Kikuchi,et.al.

Department of Orthopaedic Surgery, Kitakami Saiseikai Hospital

M-39. Efficacy of JOABPEQ for evaluating adult spinal deformity (Page171)

Keiji Ishii,et.al.

Niigata Spine Surgery Center

M-40. Long fusion from sacrum to thoracic spine for adult spinal deformity with sagittal imbalance (Page172)

Takahito Fujimori,et.al.

Department of Orthopedic Surgery, Sumitomo Hospital

M-41. Compensatory alignment change at non-fused levels in patients with adult spinal deformity before and after posterior correction surgery (Page173)

Shinjiro Kaneko,et.al.

Department of Orthopaedic Surgery, National Hospital Organization Murayama Medical Center

M-42. Key spinal deformity parameters affecting to QOL in postoperative adult spinal deformity patients with minimum two-years follow-up (Page174)

Satoshi Inami,et.al.

Dept. of Orthop. Surg., Dokkyo Medical Univ. School of Medicine

9:30–9:40 **Intermission**

9:40–12:00 **Satellite Symposium**

Moderators: Kazuhiro Hasegawa.MD, Yukihiro Matsuyama.MD

S-3-1. Adult spinal deformity -What is ideal spino-pelvic alignment?-
(Page123)

Yu Yamato,et.al.

Department of Orthopaedic Surgery, Hamamatsu University School of Medicine

S-3-2. The verification of sagittal modifiers of SRS-Schwab ASD based
on Japanese standard values in congruent sagittal spino-pelvic
alignment (Page124)

Tokumi Kanemura ,et.al.

Spine Center, Konan Kosei Hospital

S-3-3. Radiological risk factors of curve progression in degenerative
lumbar scoliosis (Page125)

Hideki Murakami,et.al.

Department of Orthopaedics, School of Medicine, Iwate Medical University

S-3-4. Conservative treatment for osteoporotic spinal kyphosis (Page126)

Naohisa Miyakoshi,et.al.

Department of Orthopedic Surgery, Akita University School of Medicine

S-3-5. Effects of the vertebroplasty on the correction of global sagittal
alignment in the osteoporotic vertebral fractures (Page127)

Ryuichi Takemasa ,et.al.

Department of Orthopaedic Surgery, Kochi Medical School

S-3-6. Spinal instrumentation with telescoping function for osteoporotic
spine (Page128)

Hideo Hosoe

Department of Orthopaedic Surgery, Gifu Prefectural General Medical Center

S-3-7. Indication of surgical treatment for adult spinal deformities: from
decompression alone to aggressive correction (Page129)

Kazuhiro Hasegawa,et.al.

Niigata Spine Surgery Center

S-3-8. Surgical strategies for degenerative kypho-scoliosis (Page130)

Hiroshi Taneichi,et.al.

Dokkyo Medical University orthopaedic surgery

S-3-9. Surgery for degenerative lumbar scoliosis by multi-level PLIF-
correction of kyphotic deformity using strong anchor of S2 alar iliac
screw (Page131)

Eiji Abe,et,al.

Department of orthopedic surgery, Akita Kousei Medical Center

S-3-10. Clinical results of PSO for adult spinal deformity (Page132)

Tomoaki Toyone,et,al.

Teikyo University Mizonokuchi Hospital

12:00– 12:15 **Intermission**

12:15– 13:15 **Luncheon Seimnar 3**
Part 1 : The Dynamic Sagittal Balance of the
Lumb-Pelvi-Femoral Complex. Theoretical and
Practical Evaluation
PART 2 : The Effect of Variation in Arm Position
on the Sagittal Connection of The Gravity Line
(Page99)

Jean Legaye,MD

CHIRURGIEN ORTHOPEDISTE ACCREDITE Service
d' Orthopédie Clinique Universitaire de Mont-Godinne,
Belgique

Moderators: Kazuhiro Hasegawa.MD

13:15– 13:25 **Intermission**

13:25– 14:25 **Special Lecture 3 : How to Integrate the Sagittal**
Plane inDiagnosis and Treatment of Adult Spinal
Deformity (Degenerative Spondylolisthesis and
Kyphoscoliosis) (Page96)

Le Huec, MD

Bordeaux university hospital, Bordeaux France

Moderators:Yoshihiro Semoto.MD

14:25– 14:30 **Closing Remarks**

14:30– 15:00 **Intermission**

15:00– 17:30 **Civic Open Lecture :**
Locomotive Syndrome and Adult Spinal Deformity

Keynote Lecture : Ken Yamazaki.MD

Speakers : Genyo Murooka.MD, Minoru Doita.MD,

Nobumasa Suzuki.MD, Nobuyuki Sasaki.MD, Reiko Suzuki

Room2 Morioka Civic Cultural Hall (Sub Hall)

Thursday October 30th

9:05–9:45 Oral Presentation4 : Neuromuscular Scoliosis

Moderator: Ichiro Kikkawa.MD

O-36. Difference of correlation between respiratory function tests and perioperative anatomical lung CT data in neuromuscular and idiopathic scoliosis (Page210)

Wataru Saito,et al.

Department of Orthopaedic Surgery, Kitasato University School of Medicine

O-37. Progression of scoliosis in children with severe cerebral palsy (Page211)

Yoshiaki Oda,et al.

Asahikawasou rehabilitation and medical center

O-38. Spinal correction in patients with Fukuyama congenital muscular dystrophy ~Case series report~ (Page212)

Takanori Namba,et al.

Department of Orthopaedic Surgery, Kitasato University School of Medicine

O-39. Clinical outcomes of spinal fusion using allograft for dystrophic spinal deformities of neurofibromatosis-1 (Page213)

Ichiro Kawamura,et al.

Dept. of Orthopaedic Surgery, Kagoshima University

O-40. Perioperative surgical complications of severe scoliosis (Page214)

Fumito Tanabe,et al.

Department of Orthopaedic Surgery, Graduate School of Medical and Dental Sciences, Kagoshima University

9:45– 10:25 Oral Presentation 6 : Basic Science

Moderator: Yoichi Aota.MD

O-41. Nerve growth factor and estrogen receptor mRNA expression in paravertebral muscles of patients with adolescent idiopathic scoliosis (Page215)

Daisuke Kudo,et al.

Department of Orthopedic Surgery, Akita University Graduate School of Medicine

O-42. Genome-wide association study in adolescent idiopathic scoliosis: identification of a new locus (Page216)

Yoji,Ogura,et al.

Department of Orthopaedic Surgery, Keio University

O-43. Comprehensive analysis of gene expression in the lumbar spine of congenital kyphoscoliotic rats (Page217)

Daisuke Tsunoda,et al.

Department of Orthopaedic Surgery, Graduate School of Medicine, Gunma University

O-44. Creation of fibrillin 1 knockout pig model for Marfan syndrome (Page218)

Morio Matsumoto,et al.

Dept. of Orthopaedic Surgery, Keio University

15:30– 16:20 Oral Presentation 1(1) : Adolescent Idiopathic Scoliosis

Moderator: Michio Hongo.MD

O-1. Evaluation of breast asymmetry in Lenke type 1 idiopathic scoliosis (Page175)

Atsushi Ono,et al.

Department of Orthopaedic Surgery, Hirosaki Memorial Hospital

O-2. A clinical study of coronal imbalance in patients with adolescent idiopathic scoliosis (Page176)

Ryo Sugawara,et al.

Department of Pediatric Orthopedic Surgery, Jichi Tochigi Children's Medical Center

O-3. Efficacy of intraoperative prone radiographs in prediction of postoperative radiographic results for Lenke type 1 and 2 curves (Page177)

Masayuki Ohashi,et al.

Department of Orthopaedic Surgery, Niigata University

O-4. Impact of direct vertebral rotation in adolescent idiopathic lumbar scoliosis surgery (Page178)

Sho Kobayashi,et al.

Hamamatsu University School of Medicine

O-5. Surgical treatment of Lenke 2 double thoracic adolescent idiopathic scoliosis with a rigid proximal thoracic curve (Page179)

Hideki Sudo,et al.

Department of Orthopaedic Surgery, Hokkaido University Hospital

- O-6. Effect of posterior corrective surgery utilizing 2 6.35mm Ti rod with different stiffnesses for the treatment of adolescent idiopathic scoliosis (Page180)

Hiromitsu Toyoda,et al.

Department of Orthopaedic Surgery, Osaka City University Graduate School of Medicine

- O-7. Influence of rod materials on post-operative thoracic kyphosis in Lenke type 1 adolescent idiopathic scoliosis (Page181)

Nobuyuki Fujita,et al.

The Department of Orthopaedic Surgery, Keio University School of Medicine

16:20–17:20 Oral Presentation 1(2) : Adolescent Idiopathic Scoliosis

Moderator: Satoshi Demura.MD

- O-8. Comparison of typical thoracic curves and atypical thoracic curves within the Lenke 1 classification (Page182)

Takahito Fujimori,et al.

Department of Orthopedic Surgery, Sumitomo Hospital

- O-9. Surgical outcome of selective thoracic fusion for Lenke type 1BC and 2BC adolescent idiopathic scoliosis (Page183)

Hirooki Endo,et al.

Department of Orthopaedic Surgery, School of Medicine, Iwate Medical University

- O-10. Postoperative behavior of thoracolumbar/lumbar curve and coronal balance after posterior thoracic fusion for Lenke 1C and 2C adolescent idiopathic scoliosis (Page184)

Masayuki Ishikawa,et al.

Spine and Spinal Cord Center, Mita Hospital, International University of Health and Welfare

- O-11. Postoperative change of cervical disc MRI images in patients with adolescent idiopathic scoliosis (Page185)

Kosuke Takimura,et al.

Department of Orthopedic and Spine Surgery , Meijo Hospital

- O-12. Risk factors for shoulder imbalance in Lenke type 6 adolescent idiopathic scoliosis (Page186)

Long Pang,et al.
Dept. of Orthop. Surg. Keio University

O-13. Comparison of pulmonary function between anterior and posterior surgeries in patients with adolescent idiopathic scoliosis (Page187)

Toshiki Saito,et al.
Dept. Orthopaedics &Spine surgery, Meijo Hospital

O-14. Leg pain after posterior spinal fusion with pedicle screw in thoracolumbar or lumbar scoliosis patients (Page188)

Kanichiro Wada,et al.
Department of Orthopaedic Surgery, Hirosaki University Graduate School of Medicine

O-15. Radiographic results after instrumentation removal in adolescent idiopathic Scoliosis (Page189)

Tetsuya Ohara,et al.
Department of Orthopaedic Surgery and Spine Center, Meijo Hospital

Friday October 31st

8:30–9:30 Oral Presentation 9 : Others

Moderator : Atsushi Ono.MD

O-64. Efficacy of epoetin beta injection during autologous blood donation before scoliosis surgery (Page238)

Shota Ikegami, et al.

Department of Orthopaedic Surgery, Shinshu University, School of Medicine

O-65. Risk factors for sagittal imbalance after cervical laminoplasty without invading C2 attached muscles (Page239)

Shogo Ito, et al.

The Orthopaedic Surgery, Yokohama City University Medical Center

O-66. Anterior alone surgery for subaxial kyphosis following upper cervical arthrodesis in patients with rheumatoid arthritis (Page240)

Katsuji Shimizu, et al.

Department of Orthopaedic Surgery and Spine Center, Gifu Municipal Hospital

O-67. Pedicle screw system with telescoping function for kyphosis in aged patients (Page241)

Hideo Hosoe

Department of Orthopaedic Surgery, Gifu Prefectural General Medical Center

O-68. Clinical and radiological outcomes of posterior lumbar fixation for degenerated spondylolisthesis or scoliosis in elderly patients over 80 years old (Page242)

Hirofumi Kosaka, et al.

Takamatsu Red Cross Hospital

O-69. Surgical strategy and problems for spinal kyphosis due to multiple vertebral-body fracture with severe osteoporosis (Page243)

Kotaro Nishida, et al.

Dept. of Orthop. Surg., Kobe University Graduate School of Med

O-70. Vertebroplasty with posterior spinal fusion for osteoporotic vertebral fracture: Is sagittal balance beneficial for QOL? (Page244)

Keiichi Katsumi, et al.

Dept. of Orthopedic Surgery, Niigata University Medical and Dental General Hospital

14:35–15:10 Oral Presentation 7(1) : Diagnosis and Evaluation

Moderator : Hiroshi Takei.MD

- O-45. Assessment of peak angle velocity in patients with late-onset idiopathic scoliosis (Page219)
Masaaki Chazono, et al.
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- O-53. Influence of back extensor strength on the natural history of kyphosis (Page227)
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Hiroshi Moridaira, et al.

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