

The 26th Annual Meeting of the Japan Society for the Study of Surgical Technique for Spine and Spinal Nerves (JPSTSS) 【Program】

6 ~ 7 September 2019



6 September (Fri.) Room 1 (10 F Room 1003)

8 : 20 ~ 8 : 25 Opening Remarks

8 : 30 ~ 10 : 00 (90min.) Symposium 1

New technology in spine surgery

Chairs : Koji SATO, Toshihiro TAKAMI

S1-1 Current innovation in computer vision for spine surgery

177p Orthopedic Department, Eniwa Hospital
Yuichiro ABE

S1-2 Diffusion tensor imaging of the spinal cord: Imaging biomarker to characterize the severity of cervical myelopathy and predict surgical outcomes

178p Department of Orthopaedic Surgery, Chiba University, Graduate School of Medicine
Satoshi MAKI, et al.

S1-3 Augmented reality navigation for cervical spine surgery

179p Spine and Spinal Cord Center, Aichi Medical University Hospital
Masahito HARA, et al.

S1-4 The significance of intraoperative assessment of spinal vascular circulation using ICG-VA in the surgery of spinal intramedullary tumors

180p Department of Neurosurgery, Osaka City University Graduate School of Medicine
Toshihiro TAKAMI, et al.

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S1-5 Intraoperative ultrasonography navigation fusion with CT or MRI

181p

Orthopedic Department, Japanese Red Cross Nagoya Daini Hospital
Koji SATO, et al.

S1-6 Percutaneous ultrasonographic observation of the spinal cord after cervical laminoplasty

182p

Department of Orthopedic Surgery, Osaka Medical College
Yoshiharu NAKAYA, et al.

10:00~10:40

Break

10:40~11:40 (60min.) Instructional Lecture 1

Chair : Yusuke NAKAO

IL1

140p

Relationship between quality of life and radiology:
Is the optimal deformity correction the best treatment?
Faculty of Spine Unit of Bordeaux University Hospital, Bordeaux, France
Louis BOISSIÈRE

11:40~12:00

Break

12:00~13:00 (60min.) Luncheon Seminar 1

Chair : Koichi SAIRYO

LS1

164p

Laminoplasty using suture anchors for cervical spondylosis and spinal cord tumors

Sapporo Azabu Neurosurgical Hospital
Kazutoshi HIDA

Sponsored by OLYMPUS TERUMO BIOMATERIALS CORP.

13:00~13:05

Break

13:05~13:20

General Assembly

13:20~13:30

Break

13:30~15:30 (120min.) Symposium 2 <English Session>

Correction of spinal deformity considering global spinal alignment

Chairs : Hiroshi MIYAMOTO, Kazuhiro HASEGAWA

S2-1 The key role of augmented intelligence in the future of adult deformity treatment

183p

University of California, San Francisco, USA
Christopher P. AMES

S2-2 Implication of standing whole body sagittal alignment in spine surgery

184p

Niigata Spine Surgery Center
Kazuhiro HASEGAWA

S2-3 The concept of Sanraku formula for the correction of adult spinal deformity

185p

Orthopedic Department, Spine Center, Sanraku Hospital
Yusuke NAKAO, et al.

S2-4 Surgical strategy for cervical kyphosis

186p

Orthopaedic Department, Kindai University Hospital
Hiroshi MIYAMOTO

S2-5 Spine deformity based on osteoporosis

187p

Department of Orthopedic Surgery, Akita University Graduate School of Medicine
Naohisa MIYAKOSHI, et al.

S2-6 Is L5 PSO the solution to proximal junctional kyphosis?

188p

Faculty of Spine Unit of Bordeaux University Hospital, Bordeaux, France
Louis BOISSIÈRE

S2-7 Complications and solutions in complex spine surgery

189p

Department of Spine & Reconstructive Orthopaedic Surgery, Sana Clinic Offenbach, Offenbach, Germany
Michael A. RAUSCHMANN

15:30~15:40

Break

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15:40~16:40 (60min.) Free Papers 4

Cervical spine

Chair : Eiichiro HONDA

F4-1 The outcome of cervical foraminotomy in case of radiculopathy

317p

Orthopedic Department, Japanese Red Cross Musashino Hospital
Satoru MATSUTANI, et al.

F4-2 Surgical results of laminoplasty for cervical myelopathy due to localized anterior compression

318p

Dept. of Spine Surgery, JCHO Tokyo Yamate Medical Center
Toshikatsu MAMADA, et al.

F4-3 Ensuring the operative field in cervical laminoplasty

319p

Department of Neurosurgery, Kyoto Okamoto Memorial Hospital
Tomoaki FUJITA, et al.

F4-4 The impact of cervical ossification of the anterior longitudinal ligament for surgical outcomes for cervical ossification of the posterior longitudinal ligament - K-line (+) -

320p

Department of Orthopaedic Surgery, Nagoya University Graduate School of Medicine
Shunsuke KANBARA, et al.

F4-5 The study of the cervical posterior approach disectomy

321p

Shin-ai Spine Center, Katano Hospital
Nobuhiro SASAKI, et al.

F4-6 Impact of multifidus muscle swelling on C5 palsy after cervical laminoplasty

322p

Orthopedic Department, Osaka Medical College
Yoshitada USAMI, et al.

F4-7 Relationship between proximal cervical spondylotic amyotrophy and cervical sagittal plane and dynamic alignment

323p

Orthopedic Department, Tokyo Med. Hospital
Kei KANAZAWA, et al.

F4-8 Surgical outcomes of postural instability in patients with cervical myelopathy

324p

Department of Orthopedic Surgery, Osaka Medical College
Toma YANO, et al.

16:40~16:45

Break

16:45~17:45 (60min.) Spine Leader's Lecture 4

Chair : Hisanori MIHARA

SLL4-1 Anterior cervical decompression with fusion and interbody cage

150p

Orthopedic Department, Saiseikai Kawaguchi General Hospital
Kenichiro SAKAI**SLL4-2** Future development of anterior cervical decompression and fusion

151p

Spine and Spinal Cord Center, Aichi Medical University
Masahito HARA, et al.

Sponsored by Stryker Japan K.K.

17:45~17:50

Break

17:50~18:50 (60分) Spine Leader's Lecture 6

17:50~18:20 (30min.)

Chair : Katsushi TAKESHITA

SLL6-1 Adult spinal deformity

153p

Department of Spine & Reconstructive Orthopaedic Surgery, Sana Clinic Offenbach, Offenbach, Germany
Michael A. RAUSCHMANN

Sponsored by B.BRAUN AESCULAP JAPAN CO., LTD.

18:20~18:50 (30min.)

Chair : Masahito HARA

SLL6-2 Spinal surgery in the latest hybrid navigation operating room

154p

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

Sponsored by Brainlab K.K.

6 September (Fri.) Room 2 (10 F Room 1001)

8:30~9:30 (60分) Spine Leader's Lecture 1

8:30~9:00 (30min.)

Chair : Kiyoshi KUMANO

SLL1-1 1000 cases of microsurgical anterior cervical Foraminotomy (MacF) for cervical radiculopathy

144p

Department of Spine Surgery, Shinagawa Shisyokai Hospital

Naoto TSUCHIYA, et al.

Sponsored by ITO MEDICAL INSTRUMENTS Co., Ltd.

9:00~9:30 (30min.)

Chair : Nobuhiro HARA

SLL1-2 How to calculate the accurate correction angle of kyphosis in an adult spine deformity, considering compensation mechanism and reciprocal change

145p

- The advanced Sanraku Formula -

Spine Center, Sanraku Hospital

Shigeo SANO, et al.

Sponsored by PETER BREHM Japan Inc.

9:30~9:35

Break

9:35~10:35 (60分) Spine Leader's Lecture 2

9:35~10:05 (30min.)

Chair: Kei MIYAMOTO

SLL2-1 Corrective fixation surgery using multi-level PLIF for adult spinal deformity

146p

Orthopedic Department, Akitakousei Medical Center

Eiji ABE

Sponsored by MIZUHO Corporation

10:05~10:35 (30min.)

Chair: Atsushi NAKANO

SLL2-2 Indication and long-term follow-up study of chemonucleolysis with condoliase after clinical trials of condoliase for lumbar disc herniation

147p

Department of Orthopaedic Surgery, Hamamatsu University School of Medicine

Yukihiro MATSUYAMA

Sponsored by KAKEN PHARMACEUTICAL CO.,LTD.

10:35~10:40

Break

10:40~11:40 (60min.) Free Papers 1

Cervical and thoracic spine

Chair: Toshikatsu MAMADA

F1-1 Subaxial subluxation and fixation angle after occipito-atlanto-axial fixation with rheumatoid arthritis

294p

National Hospital Organization, Sagami National Hospital

Yoh KUMANO, et al.

F1-2 Development of intraoperative navigation system and safety of cervical pedicle screw

295p

Department of Neurosurgery, Tsukazaki Hospital

Nobuyuki SHIMOKAWA, et al.

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F1-3 The differences of the accuracy of cervical pedicle screw insertion by the setting position of reference frame using intraoperative CT navigation system

296p

Department of Orthopaedic Surgery Spine Center, Niigata Central Hospital
Tatsuo MAKINO, et al.

F1-4 Image examination of the safest insertion point of cervical pedicle screw thorough anterior approach

297p

Departmento of Orthopedic Surgery, Kochi Health Sciences Center
Yoshiaki ODA, et al.

F1-5 The surgical treatment of pyogenic cervical spondylitis using posterior instrumentation without anterior debridement: A report of three cases

298p

Department of Orthopaedic Surgery, Funabashi Municipal Medical Center
Hiroaki SAMEDA, et al.

F1-6 Anteroposterior reconstructive surgery for infectious spondylitis combined with advanced kyphotic deformity in cervical spine is useful

299p

Department of Orthopedic Surgery, Showa University Hospital
Ryo YAMAMURA, et al.

F1-7 Treatment experience of 3 cases of thoracic and spinal cord herniation who underwent hernia repair

300p

Department of Neurosurgery, Mie University Graduate School of Medicine
Masashi FUJIMOTO, et al.

F1-8 Surgical outcomes and prognostic factors for thoracic myelopathy due to ossification of ligamentum flavum

301p

Dept. of Spine Surgery, JCHO Tokyo Yamate Medical Center
Hidemasa UMEKOJI, et al.

11:40~12:00

Break

12:00~13:00 (60min.) Luncheon Seminar 2

Chair : Hideki OTA

LS2 Computer aided surgical resection and reconstruction of spinal tumors

165p

Department of Orthopedic Oncology, Changzheng Hospital,
Second Military Medical University, Shanghai, China

Jianru XIAO, et al.

Sponsored by DePuy Synthes, Johnson and Johnson K.K.

13:00~13:25

Break

13:25~14:25 (60min.) Main Theme 3

New technology in spine surgery ①

Chair : Nobuyuki SHIMOKAWA

MT3-1 Minimally invasive spine surgery in hybrid operation room

216p

Department of Neurosurgery, Osaka Police Hospital

Yasushi SHIN, et al.

MT3-2 Usefulness of new exoscope system (ORBEYE) in spine surgery

217p

Department of Neurosurgery, Suita Municipal Hospital

Yasuyoshi MIYAO, et al.

MT3-3 Intraoperative evaluation using computed tomography in atlantoaxial transarticular screw fixation

218p

Orthopedic Department, Osaka Medical College

Takuya OBO, et al.

MT3-4 3D printed tubular guides for pedicle screw placement: MySpine technology

219p

Orthopedic Department, Showa University

Hiroshi MARUYAMA, et al.

MT3-5 C-arm free technique for anterior correction of adolescent idiopathic scoliosis

220p

Orthopedic Department, Okayama Rosai Hospital

Taro YAMAUCHI, et al.

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MT3-6 The evaluation of indirect neural decompression after lateral lumbar interbody fusion using intraoperative computed tomography myelogram

221p

Department of Orthopaedic Surgery, Osaka Medical College
Sachio HAYAMA, et al.

MT3-7 Microendoscopic decompression using navigation for lumbar interforaminal stenosis

222p

Orthopedic Department, Okayama Rousai Hospital
Taro YAMAUCHI, et al.

14 : 25 ~ 15 : 30 (65min.) Main Theme 5

New technology in spine surgery ②

Chair : Takanori SAITO

MT5-1 Challenges for MIST
-Intraspinal canal treatment (Trans-sacral canalplasty) -

230p

Department of Orthopaedic Surgery, School of Medicine, International University of Health and Welfare / Spin and Spinal Cord Center, International University of Health and Welfare Mita Hospital
Haruki FUNAO, et al.

MT5-2 Experience of TSCP (trans-sacral canalplasty) in 83 cases

231p

Kurume University School of Medicine, Department of Orthopedic Surgery
Kimiaki YOKOSUKA, et al.

MT5-3 The evolution of the epiduroscopy and the future prospects

232p

Department of Orthopaedics, Kansai Medical University
Masaki PAKU, et al.

MT5-4 Minimally invasive decompression with a new 8 mm full-endoscope for lumbar spinal canal stenosis and foraminal stenosis

233p

Orthopedic Department, Aichi Spine Hospital
Fujio ITO, et al.

MT5-5 The study of the appropriate guiding-needle's angle at epidural adhesiolysis

234p

Orthopedic Department, Kurume University Hospital
Takahiro SHIMAZAKI, et al.

MT5-6 Microendoscopy assisted lumbar lateral interbody fusion:
ME-LIF

235p

Aichi Spine Hospital
Motohide SHIBAYAMA, et al.

MT5-7 Postoperative outcomes after trans-Sacral Epiduroscopic Laser
Decompression (SELD) in Japanese patients -Denervation
therapy for discogenic low back pain-

236p

Orthopedic Department, Aichi Spine Hospital
Zenya ITO, et al.

MT5-8 Comparison of postoperative course between micro LOVE
and PELD

237p

Department of Neurosurgery and Spine Surgery, Iseikai Hospital
Masao UMEGAKI, et al.

15:30~15:40

Break

15:40~16:40 (60min.) Tea Time Seminar 1

Chair : Ichiro BABA

TTS1 Surgical strategy for elderly spinal deformity with osteoporotic
vertebral fracture

169p

Department of Orthopaedic Surgery, Hamamatsu University School of Medicine
Yukihiro MATSUYAMA

Sponsored by AsahiKASEI Pharma

16:40~16:45

Break

16:45~17:45 (60min.) Spine Leader's Lecture 5

Chair : Masakazu TAKAYASU

SLL5 Cervical disc replacement : Mobile core technology

152p

Brain and Spine Consultant Clinic, Hong Kong
Joseph Ming Kuen LAM

Sponsored by Zimmer Biomet

17:45~17:50

Break

17:50~18:50 (60min.) Spine Leader's Lecture 7

Chair : Tomoaki TOYONE

SLL7 The key role of augmented intelligence in the future of adult deformity treatment

155p

University of California, San Francisco, USA

Christopher P. AMES

Sponsored by NexMed International Co., Ltd.

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6 September (Fri.) Room 3 (10 F Room 1002)

8:30~9:40 (70min.) Main Theme 1

Technical tips ①

Chair : Bungo OTSUKI

-
- MT1-1** L3/4 sublaminar taping can prevent adjacent segmental diseases in L4/5/S1 posterior interbody fusion
202p
Spine and Spinal Cord Center, Niigata Central Hospital
Yuya TAKESUE, et al.
-
- MT1-2** Surgical treatment of using expandable cage of lordotic type
203p
Orthopedic Department, Yokohama City University Hospital
Takashi KUNIYA, et al.
-
- MT1-3** MIS posterior/transforaminal lumbar interbody fusion using ILLICO and Capstone control with 'lordotic compression technique'
204p
Oume Spine Center, Takagi Hospital
Yosuke MIYAMOTO, et al.
-
- MT1-4** The evaluation of the bone weight around the cage by the method of bone graft before cage insertion in PLIF
205p
Orthopedic Department, Niigata South Hospital
Tomohiro IZUMI, et al.
-
- MT1-5** Direct repair of pars defects in lumbar spondylolysis using aiming device
206p
Department of Orthopaedic Surgery, Graduate School of Medicine, Kyoto University
Shunsuke FUJIBAYASHI, et al.
-
- MT1-6** Clinical outcomes of MIS-TLIF without resection of fibrocartilage tissue for isthmic spondylolisthesis in a series of 35 cases
207p
Orthopedic Department, Anshin Hospital
Masao RYU, et al.
-
- MT1-7** Minimum invasive PLIF using CBT/ TASS for isthmic spondylolisthesis
208p
Dept. of Orthopaedic Surgery, Osaka City University Graduate School of Medicine
Hidetomi TERAJ, et al.

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MT1-8 Interbody bone graft via transdiskal screw holes as treatment for high-grade spondylolisthesis

209p

Department of Orthopaedic Surgery, Gifu University /
Department of Orthopaedic Surgery, Osaka Medical University
Satoshi NOZAWA, et al.

9:40~9:45

Break

9:45~10:45 (60min.) Spine Leader's Lecture 3

Chair : Mamoru KAWAKAMI

SLL3-1 Instrumentation-related complications after spinal surgery in adult spinal deformity

148p

Orthopedic Department, The Hospital of Hyogo College of Medicine
Keishi MARUO

SLL3-2 Navigation-assisted spinal surgery in the hybrid operating room

149p

Orthopaedic Surgery, Spine and Spinal Cord Center, Osaka Police Hospital
Ryoji YAMASAKI

Sponsored by NuVasive Japan K.K.

10:45~10:50

Break

10:50~11:40 (50min.) Main Theme 2

Technical tips ②

Chair : Shigeru HIRABAYASHI

MT2-1 Factors and treatment for cloudy endoscopic view in PED

210p

Department of Neurosurgery, Saso Hospital
Kazunori SHIBAMOTO, et al.

MT2-2 Technical note and outcome of ME-MILD surgery

211p

Niigata Spine Surgery Center /
Department of Orthopaedic Surgery, The University of Tokyo Hospital
Yusuke SATO, et al.

MT2-3 Technique and clinical outcomes of full-endoscopic lumbar laminotomy

212p

Center for Spinal Surgery, Nippon Koukan Hospital
Koichiro ONO, et al.

MT2-4 A ligamentum flavum-preserving decompression for lumbar spinal stenosis
213p Orthopedic Department, National Hospital Organization, Kanazawa Medical Center
Katsuhito YOSHIOKA, et al.

MT2-5 One year postoperative results of posterior dynamic non-fusion stabilization for lumbar canal stenosis using SSCS
214p Hachioji Spine Clinic
Osamu MATSUSHIGE, et al.

MT2-6 Salvaged surgery of posterior dynamic transpedicular stabilization for the adjacent segment disorder after posterior spinal fusion
215p Fuji Toranomon Orthopaedic Hospital
Shuntaro TSHUCHIDA

11 : 40 ~ 12 : 00 Break

12 : 00 ~ 13 : 00 (60min.) Luncheon Seminar 3

Chair : Takuya NIKAIDO

LS3 Experience of intra laminar and trans foraminal endoscopic spine surgery
166p -Navigation technology for endoscopic spine surgery (intracs) -
Lohas Spine Hospital, Kaohsiung, Taiwan
Jiao-Chao YANG

13 : 00 ~ 13 : 25 Break

13 : 25 ~ 14 : 25 (60min.) Main Theme 4

Chiari malformation and syringomyelia

Chair : Minoru HOSHIMARU

MT4-1 Recent surgeries for Chiari malformation and related disorders
223p Department of Neurological Surgery,
Okayama University Graduate School of Medicine
Takao YASUHARA, et al.

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MT4-2 Foramen magnum decompression without duralplasty in Chiari type 1 malformation

224p

Uchikado Neuro-Spine Clinic
Hisaaki UCHIKADO

MT4-3 The size of the sub-occipital craniectomy of the Chiari type 1 malformation

225p

Department of Neurosurgery, Aichi Medical University
Masahiro AOYAMA, et al.

MT4-4 Subarachnoid-subarachnoid bypass for syringomyelia after spinal cord injury

226p

Department of Orthopaedic Surgery,
Nagoya University Graduates School of Medicine
Taro INOUE, et al.

MT4-5 Surgical treatment and results of tethered cord syndrome (TCS)

227p

Dept. of Orthopaedic Surgery, Osaka City University Graduate School of Medicine
Hidetomi TERAJ, et al.

MT4-6 Our experiences of treatments for spinal adhesive arachnoiditis

228p

Department of Neurosurgery, Jikei University School of Medicine
Daichi KAWAMURA, et al.

MT4-7 Time-spatial labeling inversion pulse magnetic resonance imaging of six cystic lesions of the spinal cord

229p

Shiga Spine Center, Hino Memorial Hospital
Tatsuya ISHIBE, et al.

14 : 25 ~ 14 : 30

Break

14 : 30 ~ 15 : 30 (60min.) Main Theme 6

Spine and spinal cord tumors

Chair : Makoto TANIGUCHI

MT6-1 Surgical management of spinal metastatic tumor, prognosis of paralysis

238p

Department of Orthopaedics, Japanese Red Cross Musashino Hospital
Nobuhiro HARA, et al.

MT6-2 Surgical outcome of spinal meningioma

239p Department of Neurosurgery, St. Marianna University School of Medicine,
Yokohama City Seibu Hospital
Homare NAKAMURA, et al.

MT6-3 Reconstruction after hemipelvectomy for malignant tumor

240p Department of Orthopaedics, Graduate School of Medicine, Kyoto University
Bungo OTSUKI, et al.

MT6-4 5-aminolevulinic acid fluorescence-guided resection of intramedullary ependymoma

241p Department of Neurosurgery, Sendai Medical Center /
Department of Neurosurgery, Tohoku University Graduate School of Medicine
Tomoo INOUE, et al.

MT6-5 CD133 as a putative prognostic biomarker of intracranial dissemination of spinal cord astrocytoma

242p Department of Neurosurgery, Sendai Medical Center /
Department of Neurosurgery, Tohoku University Graduate School of Medicine
Tomoo INOUE, et al.

MT6-6 Postoperative syrinx shrinkage in spinal ependymoma of WHO Grade II

243p Orthopedic Department, Nagoya University
Kazuyoshi KOBAYASHI, et al.

MT6-7 Approaches to intramedullary spinal cord tumors

244p Shin-aikai Spine Center, Katano Hospital
Minoru HOSHIMARU, et al.

15 : 30 ~ 15 : 40

Break

15 : 40 ~ 16 : 40 (60min.) Tea Time Seminar 2

Chair : Kenichiro YAMAGISHI

TTS2 Technical development of balloon kyphoplasty for early stage osteoporotic vertebral fracture

170p Spine Care Center, Wakayama Medical University Kihoku Hospital
Yukihiro NAKAGAWA

Sponsored by Japan Medical Dynamic Marketing, INC.

16 : 40 ~ 16 : 45

Break

16 : 45 ~ 17 : 45 (60min.) Main Theme 7

Adult spinal deformity ①

Chair : Hideo HOSOE

MT7-1 Characteristics of deformity surgery in patients with severe and rigid cervical kyphosis:

245p

Results of the CSRS Europe multicentre study project

Department of Orthopaedic Surgery, Showa University

Tomoaki TOYONE, et al.

MT7-2 Change in sagittal alignment of patients with dropped head syndrome from preoperative to postoperative

246p

Department of Orthopaedic Surgery, Showa University School of Medicine

Chikara HAYAKAWA, et al.

MT7-3 Adult spinal deformity surgical decision-making score: Development and validation of a scoring system to guide the selection of treatment modalities for patients below 40 years with adult spinal deformity

247p

Department of Orthopedic Surgery, Osaka Medical College

Takashi FUJISHIRO, et al.

MT7-4 Impact of pelvic stiffness to global sagittal alignment deterioration on natural sitting posture

248p

Department of Orthopedic Surgery, Hamamatsu University School of Medicine

Hiroki USHIROZAKO, et al.

MT7-5 Effect of spinal sagittal malalignment on sit to stand movement

249p

Department of Orthopaedic Surgery, Kyoto City Hospital

Mitsuru TAKEMOTO, et al.

MT7-6 Risk factors for correction loss after posterior fixation for single-level thoracolumbar osteoporotic vertebral burst fractures

250p

Department of Spine Surgery, Kanto Rosai Hospital

Hiroyuki NAKARAI, et al.

MT7-7 Indications and limitations of floating fusion for adult spinal deformity

251p

Orthopaedic Department, Kindai University Hospital

Terumasa IKEDA, et al.

17 : 45 ~ 17 : 50

Break

17:50~18:50 (60分) Spine Leader's Lecture 8

17:50~18:20 (30min.)

Chair : Futoshi SUETSUNA

SLL8-1 Development and refinement of calcium phosphate cement
- Its clinical application to spine surgery -

156p

Department of Orthopaedic Surgery, Spine Center, Kochi Medical School,
Kochi University

Ryuichi TAKEMASA

Sponsored by HOYA Technosurgical Corporation

18:20~18:50 (30min.)

Chair : Koji SATO

SLL8-2 Challenging to metastatic spinal tumors

157p

Dept of Orthopedics, Traumatology and Spine Surgery, Kawasaki Medical School

Kazuo NAKANISHI, et al.

Sponsored by Teijin Nakashima Medical Co., Ltd.

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6 September (Fri.) Room 4 (10 F Room 1006)

8:30~9:30 (60min.) Hands-on Session 1

Chair : Sadahiko KONISHI

H01 Advanced expandable technology, and its surgical technique

171p Hachinohe City Hospital
Takuya NUMASAWA

Sponsored by Globus Medical Japan, Inc.

9:30~10:00 Break

10:00~11:00 (60min.) Hands-on Session 2

H02 Tips and tricks for discectomy and endplate preparation in lumbar interbody fusion

172p Department of Orthopaedic Surgery, Kyoto City Hospital

Mitsuru TAKEMOTO

Sponsored by DePuy Synthes, Johnson and Johnson K.K.

11:00~13:30 Break

13:30~14:25 (55min.) Free Papers 2

Anterior cervical fusion

Chair : Atsuomi AIBA

F2-1 Risk factor for esophageal injury by blade retractor during anterior cervical surgery :

302p A morphological assessment with intraoperative CT

Department of Orthopedic Surgery, Osaka Medical College

Atsushi NAKANO, et al.

F2-2 Clinical outcomes of multiple-level anterior decompression and fusion for cervical compressive myelopathy

303p Orthopedic Department, Gifu Municipal Hospital

Kei MIYAMOTO, et al.

F2-3 Comparison between anterior cervical decompression and fusion and cervical disc arthroplasty for surgical treatment of cervical disc herniation

304p

Department of Neurosurgery, Shizuoka General Hospital
Yoshifumi KAWANABE, et al.

F2-4 Cage subsidence and local Cobb angle in anterior cervical fusion -Comparison of three types of implants-

305p

Orthopedic Department, Nishinomiya Kyoritsu Neurosurgical Hospital
Shu ADACHI, et al.

F2-5 Anterior cervical discectomy and fusion using a rectangular titanium-coated PEEK stand-alone cage: Preliminary image analysis of cage subsidence

306p

Department of Neurosurgery, Osaka City University Hospital /
Department of Neurosurgery, Moriguchi-Ikuno Memorial Hospital
Stroke and Spine Center
Yuta NAKANISHI, et al.

F2-6 Clinical results of titanium coated PEEK cages for anterior cervical decompression and fusion-comparison with non-titanium coated PEEK cages

307p

Orthopedic Department, Numazu City Hospital
Atsushi YUNDE, et al.

F2-7 Titanium coated PEEK cage is more useful for the clinical result of multi-vertebral anterior cervical decompression and fusion than conventional PEEK cage

308p

Orthopedic Department, Numazu City Hospital
Ryo KADOTA, et al.

14 : 25 ~ 14 : 30

Break

14 : 30 ~ 15 : 30 (60min.) Free Papers 3

Complications

Chair : Yukoh OHARA

F3-1 Sternal fracture caused by prone position surgery of patients with osteoporosis

309p

Orthopedic Department, Fukuoka Kinen Hospital
Shinji KUMAMOTO, et al.

F3-2 Influence of preoperative lower extremity muscle strength on deep vein thrombosis in the perioperative period of lumbar surgery

310p

Department of Orthopedic Surg., Atsugi City Hosp.
Takashi IMURO, et al.

F3-3 Prognosis of 99 cases of pyogenic spondylitis
-Does endoscopic surgery contribute to the improvement of the mortality rate?-

311p

Orthopedic Department, Shiroyama Hospital
Kazuki YONEI, et al.

F3-4 Prospective multicenter surveillance and risk factor analysis of surgical site infection (SSI) after posterior open thoracolumbar laminectomy and/or herniotomy for degenerative diseases -Is surgery in April at risk for SSI ?-

312p

Department of Orthopaedic Surgery, Saitama Medical Center,
Saitama Medical University
Satoshi OGIHARA, et al.

F3-5 Risk factor of surgical site infection in the patients with spinal injury

313p

Department of Orthopedic Surgery, Tokyo Medical University
Kazuma MURATA, et al.

F3-6 Respiratory complications after anterior corpectomy to thoracolumbar spine

314p

Department of Spine Surgery, Shinagawa Shishokai Hospital
Takeshi UMEBAYASHI, et al.

F3-7 Perioperative complications and surgical outcomes in spinal surgery over 90 years old

315p

Orthopedic Department, Musashino Red Cross Hospital
Shuhei IWATA, et al.

F3-8 Incidence and tendency of incidental durotomy in operations of degenerative spine diseases

316p

Department of Orthopedic Surgery, Musashino Red Cross Hospital
Yuki ISHIKAWA, et al.

15:30~15:40

Break

Lateral interbody fusion

Chair : Futoshi SUETSUNA

-
- F5-1** Is autologous bone grafting necessary among the cases of XLIF ?
325p
Hachiujisekituigeclinic
Takayuki SUMITA, et al.
-
- F5-2** Radiological improvements in lumbar lordosis and indirect decompression after combined XLIF and PPS surgeries with additional anterior column realignment procedure (ACR)
326p
Orthopedic Surgery, Kansai Medical University
Yoichi TANI, et al.
-
- F5-3** Indirect decompression with lateral interbody fusion for degenerative revision lumbar surgery
327p
Dept. of Orthopaedic Surgery, Kyoto University Graduate School of Medicine
Takayoshi SHIMIZU, et al.
-
- F5-4** Reciprocal changes in coronal alignment in lateral lumbar interbody fusion
328p
Department of Neurosurgery, Kyoto Prefectural University of Medicine
Daisuke UMEBAYASHI, et al.
-
- F5-5** Efficacy of LLIF for restenosis after posterior decompression surgery
329p
Dept. of Orthopedic Surgery, Showa University
Yoshifumi KUDO, et al.
-
- F5-6** The usefulness of LLIF for single-level disease
330p
Department of Neurosurgery, Tokyo Women's Medical University
Kento TAKEBAYASHI, et al.
-
- F5-7** Comparison of each lateral interbody fusion approach technique for thoracolumbar vertebral fracture
331p
Department of Neurosurgery, Kawachi General Hospital
Takashi MORIWAKI
-
- F5-8** Restoration of the lumbar lordosis after lumbar oblique lateral interbody fusion (OLIF) surgery in patients with rheumatoid arthritis
332p
Orthopedic Department, Sagami National Hospital
Ryo FUKUSHIMA, et al.

F5-9 Investigation of 5 cases of LLIF for bacterial lumbar vertebral spondylitis

333p

Neurosurgery Department, Tsukazaki Hospital
Hidetoshi SATO, et al.

16 : 45 ~ 17 : 45 (60min.) Free Papers 6

Osteoporosis

Chair : Hidetomi TERAJ

F6-1 Surgical outcome of balloon kyphoplasty for osteoporotic vertebral fractures

334p

Orthopedic Department, Hachiya Orthopedic Hospital
Atsushi YOSHIOKA, et al.

F6-2 Efficacy of BKP for single level in patient with simultaneous multiple regions of osteoporotic vertebral fracture

335p

Neurosurgery Department, Inazawa Municipal Hospital
Hiroshi ITO, et al.

F6-3 Analysis of the factors related to poor outcome after balloon kyphoplasty

336p

Department of Neurosurgery, Tokyo Women's Medical University /
Department of Spinal Surgery, Kameda Medical Center
Kotaro KOHARA, et al.

F6-4 Treatment of vertebroplasty and posterior fusion for vertebral fracture

337p

Orthopedic Department, Nagayama Hospital
Takashi ISHITANI, et al.

F6-5 Risk factor for the loss of correction after posterior fusion with vertebroplasty for osteoporotic vertebral fractures

338p

Orthopedic Department, Omuroseikei Spine Joint Clinic
Sho HINENO, et al.

F6-6 Surgical management for delayed neurological deficits after osteoporotic vertebral fracture

339p

Department of Neurosurgery, Tokyo Women's Medical University
Kento TAKEBAYASHI, et al.

F6-7 Usefulness of combined ACR and PPS surgeries for kyphotic deformity after osteoporotic vertebral fractures at the thoraco-lumbar junction

340p

Sangubashi Spine Surgery Hospital
Makoto YOSHIDA, et al.

F6-8 An effect comparison of Denosumab and SERM on spinal instrumentation in patients with osteoporosis

341p

Department of Orthopaedic Surgery, Showa University School of Medicine
Koji ISHIKAWA, et al.

17:45~17:50

Break

17:50~18:50 (60min.) Main Theme 8

Technical tips ③

Chair : Satoru SHIMIZU

MT8-1 A method for spinal dural closure in intradural tumor surgery

252p

Department of Neurosurgery, Tokyo Women's Medical University /
Department of Spinal Surgery, Kameda Medical Center
Kotaro KOHARA, et al.

MT8-2 Optimal surgical procedure for preventing the tethering of the spinal cord

253p

Shinshu University, School of Medicine
Kiyoshi ITO

MT8-3 How to use a mixture of grated gelatin sponge and human thrombin solution as a hemostat for spinal surgery

254p

Orthopedic Department, Kanto Rosai Hospital
Akira HIGASHIKAWA, et al.

MT8-4 High-frequency spinal cord stimulation at T9/10 in patients

255p

Department of Spinal Surgery, Akita Cerebrospinal and Cardiovascular Center
Naoki HIGASHIYAMA, et al.

MT8-5 A method to perform transforaminal PELD under general anesthesia safely

256p

-Ventilation using laryngeal mask airway in prone position-
Fuji Toranomon Orthopaedic Hospital
Shuntaro TSUCHIDA, et al.

MT8-6 Correlation between pain evaluation using the painDETECT questionnaire and efficacy of SCS

257p

Sapporo Azabu Neurosurgical Hospital

Toru SASAMORI, et al.

MT8-7 Holding and Lifting Test for symptomatic lumbar foraminal stenosis as a indicator for surgical outcomes

258p

Orthopedic Department, Gifu Municipal Hospital

Kei MIYAMOTO, et al.

6 September (Fri.) Room 5 (10 F Room 1007)

8:30~9:30 (60min.) Short talk 1

Lumbar and sacral spine

Chair : Takashi FUJISHIRO

ST1-1 Thermo-rhizotomy for low back pain of Bertolotti's syndrome
358p Neurosurgical Department, Saso Hospital
Koshi NINOMIYA, et al.

ST1-2 Two cases reports of far-out syndrome with the degenerative lumbar disease
359p Department of Orthopedic Surgery, Osaka Medical College
Atsushi NAKANO, et al.

ST1-3 A case of lumbar spinal stenosis with diffuse idiopathic skeletal hyperostosis required multiple operations for repetitive cage dislodgement after lateral lumbar interbody fusion
360p Hokusetsu General Hospital
Yuki YAMAMOTO, et al.

ST1-4 A case of lumbar spinal canal stenosis with degenerative scoliosis treated with the combination of LIF and MILD
361p Department of Orthopaedics, Graduate School of Medical Science, Kyoto Prefectural University of Medicine
Taisuke WATANABE, et al.

ST1-5 Lumbar canal stenosis with L5 vertebral fracture: Three case reports and a review of the literature
362p Orthopedic Department, Syunyoukai Central Hospital
Shigehito UEZONO, et al.

ST1-6 A recurrent case which needs L5/S1 foraminotomy after lumbar laminoplasty
363p Seirei Memorial Hospital
Satoshi ENDO, et al.

ST1-7 Lumbar intraspinal synovial cyst containing gas: A case report
364p Department of Orthopedic Surgery Osaka Medical College
Shintaro SUGISHIMA, et al.

DAY 1

DAY 2

Room 1

Room 2

Room 3

Room 4

Room 5

ST1-8 Posterior approach for L5 vertebral tumor by iliac crest cut and transposition with erector spinae muscles (Gullwing approach)

365p

Department of Preventive and Therapeutic Research for Metastatic Bone Tumor, Faculty of Medicine and Graduate School of Medicine, Hokkaido University
Akira IWATA, et al.

ST1-9 Lumbosacral fixation using percutaneous sacral alar iliac screw

366p

Department of Spine and Spinal Surgery, Shin-Takeo Hospital
Takafumi INOUE, et al.

ST1-10 Iliosacral screw (IS) for revision spine surgery: A case report

367p

Department of Spine Surgery, Kanto Rosai Hospital
Hiroyuki NAKARAI, et al.

9:30~9:40

Break

9:40~10:40 (60min.)

Short talk 2

Complications

Chair : Kanji MORI

ST2-1 Postoperative huge spinal epidural hematoma after micro endoscopic laminectomy

368p

Orthopedic Department, Yokohama Rosai Hospital
Ryuji SAKAMOTO, et al.

ST2-2 Intraoperative precautions for removing the lumbar pedicle screw

369p

Neurosurgery Department, Shonan Kamakura General Hospital
Tsuyoshi WATANABE, et al.

ST2-3 A case of spinal cord infarction after intercostal artery embolization for spinal metastasis

370p

Orthopaedic Department, Musashino Red Cross Hospital
Yusuke ITO, et al.

ST2-4 2 case reports of lumbar subdural hematoma following Thoracic Aortic Aneurysm operation with lumbar cerebrospinal fluid drainage

371p

Orthopedic Department, Musashino Red Cross Hospital
Yuichi YOSHIDA, et al.

ST2-5 A case of tongue swelling after cervical laminoplasty

372p Seirei Memorial Hospital
Satoshi ENDO, et al.

ST2-6 A case report of early onset adjacent segmental disease in Parkinson's disease patient

373p Spine Center, Shinagawa Shishoukai hospital
Ryuta KONO, et al.

ST2-7 Abdominal pseudohernia after extreme lateral interbody fusion procedure: A case report

374p Department of Spine and Orthopaedic surgery, Japanese Red Cross Medical Center / Dept. of Orthop. Surg., Showa Univ. School of Medicine
Taiki YASUKAWA, et al.

ST2-8 Reports of vertebral artery injury in microsurgical anterior cervical foraminotomy (MacF)

375p Department of Spine Surgery, Shinagawa Shisyokai Hospital
Naoto TSUCHIYA, et al.

ST2-9 Systemic adverse effects of topical vancomycin powder application in spinal instrumentation surgery

376p Department of Neurosurgery, Ohnishi Neurological Center
Shinji YAMAMOTO, et al.

ST2-10 The effectiveness of teriparatide therapy for 2 cases of delayed-union after spinal fixation

377p Spine center, Shin-aikai Katano Hospital
Hiroaki MANABE, et al.

10:40~10:50

Break

10:50~11:40 (50min.) Short talk 3

Chiari malformation

Chair : Shigeo UEDA

ST3-1 Chiari malformation and syringomyelia associated with cervical anomaly: Report of 2 cases

378p Department of Neurosurgery, Jikeikai Shinsuma General Hospital
Yoshiyuki TAKAISHI, et al.

ST3-2 Constriction of inner layer of the dura following FMD with remove of external layer is not connective tissue but thickening of the dura: A case report

379p

Department of Neurosurgery, Hyogo College of Medicine
Hiroto KAGEYAMA, et al.

ST3-3 Syringomyelia associated with Chiari malformation type1 treated with V-P shunt

380p

Department of Neurosurgery, Nara Medical University
Yasuhiro TAKESHIMA, et al.

ST3-4 Adult Chiari type1 malformation presenting with brainstem compression

381p

Department of Neurosurgery/Spine & Peripheral Nerve Center,
Nakamura Memorial Hospital
Yasufumi OHTAKE, et al.

ST3-5 Dynamic evaluation of syringomyelia using low b value DWI

382p

Department of Neurospinal Surgery, Hokkaido Ohno Memorial Hospital
Tomohiro MURAKAMI, et al.

ST3-6 Spontaneous resolution of spinal dural arteriovenous fistulas

383p

Department of Neurosurgery, Aichi Medical University
Masahiro AOYAMA, et al.

ST3-7 Two cases with spinal extradural AVF (Type B1) to be treated by intervention through venous tract

384p

Department of Neurospinal Surgery, Shiroishikyoritsu Hospital
Eiichiro HONDA, et al.

ST3-8 Surgical treatment with dye injection for symptomatic spinal arachnoid cyst

385p

Department of Neurosurgery, Tsukazaki Hospital
Hiroaki MATSUMOTO, et al.

11:40~13:30

Break

Endoscopic surgery / Infection

Chair : Masateru NAGAE

-
- ST4-1** A case of endoscopic surgery for ossification of anterior longitudinal ligament at C2-3
386p
Department of Neurosurgery, Kurume University School of Medicine
Gohsuke HATTORI, et al.
-
- ST4-2** Surgical treatment for lumbar disc herniation migrated to posterior epidural space : A report of two cases
-Comparing MED to conventional method-
387p
Department of Orthopedics and Spine Surgery, Asama General Hospital
Hiroshi NAKAMURA, et al.
-
- ST4-3** Percutaneous endoscope-assisted microsurgery for degenerative lumbar disease
388p
Department of Neurosurgery, Kurume University School of Medicine
Gohsuke HATTORI, et al.
-
- ST4-4** 2 cases of the percutaneous endoscopic discectomy at L5/S1 with O-arm navigation
389p
Neurospinal Surgery, Hokkaido Ohno Memorial Hospital
Hitoshi HAYASE, et al.
-
- ST4-5** Navigation assisted percutaneous endoscopic foraminoplasty for foraminal restenosis after L5/S1 posterior lateral fusion surgery
390p
Department of Neurosurgery, Yao Tokushukai General Hospital
Masaki YOSHIMURA, et al.
-
- ST4-6** Microendoscopic Lumbar foraminotomy is an effective procedure for the treatment of L5-S1 foraminal stenosis after floating fusion of multi-segmental lumbar fusion: A case report
391p
Department of Orthopedics and Spine Surgery, Asama Hospital
Dai ARIYOSHI, et al.
-
- ST4-7** Two cases of pyogenic spondylitis after osteoporotic vertebral fracture
392p
Department of Orthopaedic Surgery, Sousei Hospital
Yuichi HONDA, et al.

ST4-8 A case of epidural and subcutaneous abscess treated with emergent decompression and postoperative saline epidural perfusion

393p

Department of Neurosurgery, Kyoto Okamoto Memorial Hospital
Tomoaki FUJITA, et al.

ST4-9 Treatment of purulent spondylitis/discitis for elderly person

394p

Spine Center, Kawasaki Hospital
Taigo KAWAOKA

ST4-10 Successfully treated by naso-esophageal extra-drainage and posterior spinal fusion for thoracic spondylitis with paravertebral abscess

395p

Orthopedic Department, Tokyo Metropolitan Tama Medical Center
Kazuhiro MASUDA, et al.

14:30~14:40

Break

14:40~15:40 (60min.) Short talk 5

Cervical spine

Chair : Toshiya TACHIBANA

ST5-1 A case presenting with dropped head syndrome happening immediately after cervical laminoplasty as well clinical symptom re-worsening

396p

Department of Neurospinal Surgery, Shiroishikyoritsu Hospital
Eiichiro HONDA, et al.

ST5-2 Fracture-dislocation of the cervical spine secondary to low-impact trauma in a patient with Klippel-Feil syndrome

397p

Department of Orthopedic Surgery, Showa University Hospital
Yusuke DODO, et al.

ST5-3 Posterior fixation with Magerl surgery for cervical spinal cord incomplete paralysis with atlanto-axial rotatory fixation: A case report

398p

Department of Orthopedic Surgery, Osaka Medical College
Keiichiro KINO, et al.

ST5-4 Intradural cervical disc herniation: A case report

399p

Department of Spine Surgery, Shinagawa Shishokai Hospital
Takeshi UMEBAYASHI, et al.

ST5-5 Utility of phase-contrast cine MRI for detection of the spinal dural defect with superficial siderosis

400p

Orthopedic Department, Hyogo Prefectural Amagasaki General Medical Center
Hiroaki KIMURA, et al.

ST5-6 A case of Charcot spine developing in a young woman with acquired analgesia after acute disseminated encephalomyelitis

401p

Orthopedic Department, Yokohama Rosai Hospital
Yukimasa YAMATO, et al.

ST5-7 A case of amyotrophic lateral sclerosis (ALS) diagnosed by exacerbation of neurological symptoms after cervical laminoplasty

402p

Osaka Medical College, Department of Orthopedic Surgery
Masahiro MIZUTANI, et al.

ST5-8 A case of huge hematoma of the cervical ligamentum flavum

403p

Orthopedic Department, Yokohama Rosai Hospital
Keiichiro TOZAWA, et al.

ST5-9 The usefulness of a lateral-posterolateral intermuscular approach (PLIMA) for a rare case of extradural en plaque ventrally extended upper cervical meningioma

404p

Department of Neurosurgery, Tominaga Hospital
Toshihiko INUI

15:40~15:45

Break

15:45~16:45 (60min.) Short talk 6

Spinal cord herniation / Tethered cord syndrome

Chair : Yasushi FUJIWARA

ST6-1 A surgical case of retained medullary cord (RMC)

405p

Department of Neurosurgery, Nagasaki University Hospital
Keishi TSUNODA, et al.

ST6-2 A surgical technique for tethered cord syndrome

406p

Orthopedic Department, Yokohama Rosai Hospital
Fumiko SAIKI, et al.

ST6-3 Surgical case of tethered cord syndrome with closed spina bifida

407p

Department of Neurosurgery, Saiseikai Wakayama Hospital
Junichiro MIKI, et al.

ST6-4 A case of myxopapillary ependymoma with tethered cord syndrome

408p

Department of Neurosurgery, Mie General Medical Center
Yusuke KAMEI, et al.

ST6-5 Two cases of intrathecal intramedullary extramedullary spinal cord tumor with nocturnal pain relieved by waking symptoms

409p

Department Neurosurgery, Spinal Surgery, Heiwa Hospital
Yasuomi NONAKA, et al.

ST6-6 Preoperative embolization for hemangioblastoma : A case report

410p

Spine and Spinal Cord Center, Juntendo University
Takeshi HARA, et al.

ST6-7 A case of deteriorated schwannomatosis after falling down

411p

Department of Neurospinal Surgery, Hokkaido Ohno Memorial Hospital
Tomohiro MURAKAMI, et al.

ST6-8 Hammock duroplasty for intravertebral herniation of cauda equina

412p

Department of Orthopaedic and Spine Surgery, Yokohama Rosai Hospital
Yujiro TAKESHITA, et al.

ST6-9 Idiopathic spinal cord herniation with duplicated dura matter revealed clearly by high resolution MRI

413p

Orthopedic Department, Tsukuba Medical Center Hospital
Ikuo AITA, et al.

ST6-10 Origin of the bony defect on vertebral body regarding idiopathic spinal cord herniation - A case report -

414p

Department of Spine Surgery, JCHO Tokyo Yamate Medical Center / Masaki Hospital
Norihiko NAKATA, et al.

16:45~16:55

Break

Thoracic spine

Chair : Naohisa MIYAKOSHI

ST7-1 Three cases of discontinuous combined injuries with thoracolumbar fractures with cervical fractures transported to advanced critical care center
415p
Department of Orthopedic Surgery, Showa University Hospital
Ryo YAMAMURA, et al.

ST7-2 Posterior instrumentation without decompression for symptomatic ossification of thoracic posterior longitudinal ligament
416p
Orthopedic Department, Gifu Municipal Hospital
Kei MIYAMOTO, et al.

ST7-3 Cases of thoracic ossification of ligamentum flavum causing lower extremity paralysis after minor trauma
417p
Orthopedic Department, Oita Orthopedic Hospital
Hideki OHTA, et al.

ST7-4 A New technique of posterior bone graft in total en bloc spondylectomy - True laminoplasty with PLLA mesh plate -
418p
Department of Orthopaedic and Spine Surgery, Yokohama Rosai Hospital
Yujiro TAKESHITA, et al.

ST7-5 Separation surgery with anterior decompression through a posterior single approach in combination with stereotactic body radiation therapy for thoracic spinal metastasis of renal cell carcinoma: A case report
419p
Department of Orthopedic Surgery, Saitama Medical Center, Saitama Medical University
Satoshi IKEMUNE, et al.

ST7-6 A case of metastatic spine tumor with screw loosening during the course of long-term survival in response to molecular targeted drugs
420p
Neurosurgical Department, National Hospital Organization, Iwakuni Clinical Center
Kotaro OGIHARA, et al.

ST7-7 Multiple surgeries for multiple recurrences of spinal meningioma: A case report

421p

Orthopedic Department, Hyogo College of Medicine
Tomoyuki KUSUKAWA, et al.

ST7-8 Vertebroplasty (VP) with LIF and posterior fusion for pseudoarthrosis following osteoporotic vertebral fracture (OVF)

422p

Department of Orthopedic Surgery, Misugikai Sato Hospital
Yoshitaka KUROKAWA, et al.

ST7-9 A clinical application of self-growing rod for early onset scoliosis

423p

Department of Orthopaedic Surgery, Saitama Children Hospital
Masafumi MACHIDA, et al.

7 September (Sat.) Room 1 (10 F Room 1003)

8:50~10:20 (90min.) Symposium 3

Chiari malformation and syringomyelia

Chairs : Izumi KOYANAGI, Hitoshi KONO

-
- S3-1** **Mystery of Chiari malformation: Recent experiences**
190p Department of Neurosurgery, Hokkaido Neurosurgical Memorial Hospital
Izumi KOYANAGI, et al.
-
- S3-2** **The course of the clinical symptoms after the treatment of syringomyelia associated with Chiari I malformation**
191p Department of Neurosurgery, Jikei University School of Medicine
Hiroki OHASHI, et al.
-
- S3-3** **Surgery of Chiari malformation**
192p Department of Neurosurgery, Juntendo University
Yukoh OHARA, et al.
-
- S3-4** **Surgery for syringomyelia associated with Chiari type 1 malformation -A critical review-**
193p Department of Spinal Surgery, Kameda Medical Center
Motoo KUBOTA, et al.
-
- S3-5** **Comparative analysis of expansive cranioplasty and foramen magnum decompression for syringomyelia associated with adult Chiari type I malformation**
194p Department of Neurosurgery, Osaka City University Graduate School of Medicine
Kentaro NAITO, et al.
-
- S3-6** **Treatment of scoliosis with Chiari I malformation and syringomyelia**
195p Dept. of Orthop. & Spine Surg., Meijo Hospital
Toshiki SAITO, et al.

10:20~10:30

Break

DAY 1

DAY 2

Room 1

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Room 3

Room 4

Room 5

10:30~12:00 (90min.) Symposium 4

Metastatic vertebral tumor

Chairs : Norio KAWAHARA, Yasuaki TOKUHASHI

S4-1 Treatment strategy for skeletal metastasis using new Katagiri score
196p

Division of Orthopedic Oncology, Shizuoka Cancer Center Hospital
Hirohisa KATAGIRI, et al.

S4-2 Prognostic scoring system and surgical strategies for metastatic spinal tumor
197p

Department of Orthopedic Oncology, Changzheng Hospital,
Second Military Medical University, Shanghai, China
Jianru XIAO, et al.

S4-3 Surgery combined with intraoperative radiotherapy or stereotactic body radiation therapy for metastatic spinal tumor
198p

Orthopedic Department,
Cancer and Infection Center Metropolitan Komagome Hospital
Takahiro HOZUMI, et al.

S4-4 Carbon ion radiotherapy for spinal metastases of renal cell and thyroid cancers
199p

QST_NIRS hospital,
National Institutes for Quantum and Radiological Science and Technology
Reiko IMAI

S4-5 Surgical outcome of spine surgery for spinal metastasis
200p

Department of Orthopaedic Surgery, Kobe University Graduate School of Medicine
Kenichiro KAKUTANI, et al.

S4-6 Progress of total en bloc spondylectomy for spinal metastasis
201p

Department of Orthopaedic Surgery, Nagoya City University
Hideki MURAKAMI

12:00~14:00

Break

14:00~15:00 (60min.) Instructional Lecture 4

Chair : Shunsuke FUJIBAYASHI

IL4 Application of oblique lateral lumbar interbody fusion for osteoporotic case and revision spinal fusion

143p

Brain and Spine Consultant Clinic, Hong Kong

Joseph Ming Kuen LAM

DAY 1

DAY 2

Room 1

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Room 3

Room 4

Room 5

7 September (Sat.) Room 2 (10 F Room 1001)

8:15~9:15 (60min.) Free Papers 7

Cervical spine trauma etc.

Chair : Shinsuke SUZUKI

F7-1 Diagnosis and treatment strategy for vertebral artery injury associated with cervical spine trauma

342p

Department of Neurosurgery, Osaka City General Hospital

Toru YAMAGATA, et al.

F7-2 Pathophysiology and treatment of vertebral artery injury associated with blunt cervical trauma

343p

Neurosurgical Department, Sendai Medical Center, National Hospital Organization

Shinsuke SUZUKI, et al.

F7-3 Reduction induced disc herniation of cervical facet dislocations

344p

Orthopedic Department, Kochi Health Sciences Center

Takamitsu TOKIOKA, et al.

F7-4 Results of the decompression surgery about cervical cord injury with canal stenosis but without distinct bony damage

345p

The Department of Neurosurgery, Hokusou Shiroy Hospital

Isao KITAHARA, et al.

F7-5 Comparison of postoperative outcomes following transforaminal lumbar interbody fusion using Trabecular Metal cages or PEEK cages with transpedicular instrumentation

346p

Orthopedic Department, Yuki Hospital

Takeshi OHKI, et al.

F7-6 Frequency of bone union following posterior lumbar interbody fusion with cortical bone trajectory using titanium-coated PEEK cage and PEEK cage

347p

Orthopedic Department, Omihachiman Community Medical Center

Akira NAKAMURA, et al.

F7-7 The graphic changes in the treatment of injection of condoliase after 6 months

348p

Orthopedic Department, Kochi Health Science Center

Yuto TADOKORO, et al.

F7-8 Short-term results of intradiskal injection of condoliase

349p Department of Orthopedic Surgery, Kochi Health Science Center
Yoshiaki ODA, et al.

9: 15~ 9: 20

Break

9: 20~ 10: 20 (60min.) Instructional Lecture 2

Chair : Takashi YAMAZAKI

IL2 Cervical nerve root block and ultrasound-guided needle technique in hand surgery

141p Department of Orthopedic Surgery, Nara Medical University
Yasuaki NAKANISHI

10: 20~ 10: 25

Break

10: 25~ 11: 25 (60分) Spine Leader's Lecture 9

10: 25~ 10: 55 (30min.)

Chair : Eiji ABE

SLL9-1 Correction surgery for adult spinal deformity using C-MIS technique

158p Orthopedic Department, Kansai Medical University
Takanori SAITO, et al.

Sponsored by MIZUHO Corporation

10: 55~ 11: 25 (30min.)

Chair : Nobuhiro HARA

SLL9-2 Lumbar intervertebral fixation with titanium fiber mesh spacer -An advanced material which have high affinity and low elasticity-

159p Orthopedic Department, Saku Advanced Care Center
Kazuyuki FUKUSHIMA, et al.

Sponsored by KYOCERA Corporation

11: 25~ 11: 30

Break

DAY 1
DAY 2
Room 1
Room 2
Room 3
Room 4
Room 5

11:30~12:30 (60min.) Instructional Lecture 3

Chair : Masahi NEO

IL3 Lateral skull base approach for pathologies of the
142p craniovertebral junction

Department of Neurosurgery, Osaka Medical College

Masahiko WANIBUCHI

12:30~12:50

Break

12:50~13:50 (60min.) Luncheon Seminar 4

Chair : Futoshi SUETSUNA

LS4 Usefulness of titanium implant for cervical laminoplasty
167p - Focusing on combined usage with foraminotomy -

Spine Center, Dept. of Orthopaedic Surg., Niigata Central Hospital

Akiyoshi YAMAZAKI

Sponsored by HOYA Technosurgical Corporation • Ammtec Inc.

13:50~14:00

Break

14:00~15:00 (60分) Spine Leader's Lecture 10

14:00~14:30 (30min.)

Chair : Kenta FUJIWARA

SLL10-1 History of scoliosis brace and recommendation of night brace

160p Orthopedic Department, Imazu Hospital

Yoshihiro SEMOTO

Sponsored by Nagano Prosthetics & Orthotics Co.,LTD.

14:30~15:00 (30min.)

Chair : Toshitaka YOSHII

SLL10-2 Mid-term and long-term clinical results of non-fusion
161p stabilization for degenerative lumbar diseases

Orthopedic Department, Oita Orthopedic Hospital

Hideki OTA, et al.

Sponsored by OHWA TSUSHO Co.,Ltd.

7 September (Sat.) Room 3 (10 F Room 1002)

8:15~9:15 (60min.) Main Theme 9

Adult spinal deformity ②

Chair : Masafumi MACHIDA

MT9-1 Comparison of porous titanium alloy cage and titanium coating PEEK cage in corrective-TLIF for degenerative kyphoscoliosis

259p

Department of Spine/Spinal Cord Center, Sanraku Hospital

Nozomu OHTOMO, et al.

MT9-2 Is LIF technique necessary for surgical treatment of adult spinal deformity ?

260p

Oita Orthopedic Hospital

Yohei IGUCHI, et al.

MT9-3 Minimum 1 year follow up results of cMIS for adult spinal deformity

261p

Dept of Neurosurgery, Ayabe Renaiss Hospital

Kenji FUKAYA

MT9-4 Minimally invasive correction surgery for adult spinal deformity using LLIF and PPS

262p

-Minimum 2 year follow up cases-

Orthopedic Department, Shunyoukai Central Hospital

Sei TERAYAMA, et al.

MT9-5 Minimally invasive corrective surgery with lateral access corpectomy for adult spinal deformity with osteoporotic vertebral fracture

263p

Department of Orthopaedic Surgery, Kansai Medical University Hospital

Naoto ONO, et al.

MT9-6 Selective lateral interbody fusion with minimum disc level fused for adult spinal deformity

264p

Orthopedic Department, Gifu Municipal Hospital

Kei MIYAMOTO, et al.

MT9-7 Evaluation of sacroiliac joint degeneration after S2 alar iliac screw placement

265p

Orthopedic Department, Medical Research Institute Kitano Hospital

Masato OTA, et al.

9:15~9:20

Break

DAY 1

DAY 2

Room 1

Room 2

Room 3

Room 4

Room 5

9 : 20 ~ 10 : 20 (60min.) Main Theme 10

Technical tips ④

Chair : Masao KODA

MT10-1 Refinement of ceramic spacer for double door cervical laminoplasty

266p

Spine Center, Department of Orthopaedic Surgery, Teine Keijinkai Hospital
Takeshi AOYAMA, et al.

MT10-2 Placement of hydroxyapatite spacer in double-door cervical laminoplasty

267p

Orthopedic Department, Rakusai-Shimizu Hospital
Masaya YAZU, et al.

MT10-3 The significance of using the titanium spacer in cervical laminoplasty and side effect

268p

Dept. of Neurosurgery, Nippon Medical School
Kazunari KOGURE, et al.

MT10-4 Technical tips of microscopic posterior cervical foraminotomy for radiculopathy

269p

Orthopedics and Microscopic Spine and Spinal Cord Surgery Center,
Hiroshima City Asa Hospital
Yasushi FUJIWARA, et al.

MT10-5 Total uncinectomy for cervical spondylotic radiculopathy

270p

Orthopedic Department, University of Tsukuba
Masao KODA, et al.

MT10-6 The novel technique for cervical nerve root decompression in cases with cervical artificial disc

271p

Department of Neurosurgery, Tsukazaki Hospital
Nobuyuki SHIMOKAWA, et al.

MT10-7 Microsurgical resection of ossification of the posterior longitudinal ligament in the thoracic spine through transthoracic approach without spinal instrumentation

272p

Spinal Disorders Center, Fujieda Heisei Memorial Hospital
Ryo KANEMATSU, et al.

10 : 20 ~ 10 : 25

Break

10:25~11:25 (60min.) Main Theme 11

Technical tips ⑤

Chair : Akiyoshi YAMAZAKI

MT11-1 Anterior cervical approach is based on reduced retraction stress and precise dissection of muscle layers

273p

Department of Neurosurgery, Kawachi General Hospital
Takashi MORIWAKI

MT11-2 Surgical approach of anterior cervical spine involving C2 vertebra

274p

Orthopedic Department, Numazu City Hospital
Atsuomi AIBA, et al.

MT11-3 Development of our original device to control upper limbs during cervical anterior surgery

275p

Department of Orthopaedic Surgery, Shiga University of Medical Science
Kanji MORI, et al.

MT11-4 Tips for posterior cervicothoracic fixation

276p

Department of Orthopaedic Surgery, Hyogo College of Medicine
Toshiya TACHIBANA, et al.

MT11-5 Posterior cervical spinal fusion using interspinous process plate

277p

Orthopedic Department, Kanou General Hospital
Shinya NOUDA, et al.

MT11-6 The surgical outcome of novel concept of posterior decompression and fusion for K-line (-) cervical ossification of the posterior longitudinal ligament

278p

Spine Center, Dept. of Orthopaedic Surgery, Niigata Central Hospital /
Department of Orthopedic Surgery, Niigata University Medical and Dental General Hospital
Keiichi KATSUMI, et al.

MT11-7 Posterior decompression and fusion for thoracic ossification of the posterior longitudinal ligament - Unilateral post head on type screw method -

279p

Orthopedic Department, Naha City Hospital
Shoichiro HIGA, et al.

11:25~11:30

Break

DAY 1

DAY 2

Room 1

Room 2

Room 3

Room 4

Room 5

11:30~12:30 (60min.) Main Theme 12

Adult spinal deformity ③

Chair : Shiro IMAGAMA

MT12-1 To prevent rod breakage after corrective surgery for adult spinal deformity

280p

Orthopedic Department, Saiseikai Yokohamashi Tobu Hospital
Yu SUEMATSU, et al.

MT12-2 "Cross-band stabilization" in long fusion for adult spinal deformity to prevent proximal junctional failure

281p

Department of Spine/Spinal Cord Center, Sanraku Hospital
Nozomu OHTOMO, et al.

MT12-3 To decrease intraoperative blood loss during corrective surgery with conventional open posterior approach for adult spinal deformity

282p

Orthopedic Department, Saiseikai Yokohamashi Tobu Hospital
Kentaro FUKUDA, et al.

MT12-4 LIF combined with minimal invasive posterior decompression for degenerative scoliosis with lumbar spinal stenosis

283p

Hachiya Orthopaedic Hospital
Yuichi KONDO, et al.

MT12-5 A consideration of two-stage corrective surgery for adult spinal deformity (ASD)

284p

Department of Orthopedic Surgery, Misugikai Sato Hospital
Yoshitaka KUROKAWA, et al.

MT12-6 Comparison of perioperative complications in pedicle subtraction osteotomy for adult spine deformity in one-stage surgery and two-stage surgery

285p

Department of Orthopedic Surgery, Sanraku Hospital
Tomomi SUNAYAMA, et al.

MT12-7 Intraoperative spinal cord neuromonitoring for adult spinal deformity

286p

Orthopedic Department, Hamamatsu University School of Medicine
Go YOSHIDA, et al.

12:30~12:50

Break

12:50~13:50 (60min.) Luncheon Seminar 5

Chair : Masatoshi SUMI

LS5 Knack and pitfall of instrumentation surgery for the cervical spine

168p

Orthopedic Department, Kindai University Hospital

Hiroshi MIYAMOTO

Sponsored by NexMed International Co., Ltd.

13:50~14:00

Break

14:00~15:00 (60分) Spine Leader's Lecture 11

14:00~14:30 (30min.)

Chair : Hitoshi HASE

SLL11-1 Neuropathic pain mechanisms and treatment

162p

Multidisciplinary Pain Center, Physical Fitness Sports Medicine Rehabilitation,
Aichi Medical University

Takahiro USHIDA

Sponsored by DAIICHI SANKYO COMPANY, LIMITED

14:30~15:00 (30min.)

Chair : Yasuaki NAKANISHI

SLL11-2 Ultrasound -guided cervical facet block for cricked neck

163p

Maeda Orthopaedic Clinic

Manabu MAEDA, et al.

Sponsored by CANON MEDICAL SYSTEMS

DAY 1

DAY 2

Room 1

Room 2

Room 3

Room 4

Room 5

7 September (Sat.) Room 4 (10 F Room 1006)

8:15~9:45 (90min.) Hands-on Session 3

Surgical instruction : Nobuyuki SHIMOKAWA, Chair : Junichi MIZUNO

HO3 Prestige LP™ total disc replacement
173p -Indication and surgical techniques-
Department of Neurosurgery, Tominaga Hospital
Toshihiko INUI

Sponsored by Medtronic Sofamor Danek. Co., Ltd

9:45~10:30 Break

10:30~12:30 (120min.) Hands-on Session 5

HO5 The technique of ultrasound observation of cervical nerve roots and brachial plexus
175p
Department of Orthopedics Nara Medical University
Yasuaki NAKANISHI
Maeda Orthopedic Clinic, Nara
Manabu MAEDA
Department of Emergency and Care Medicine, Nara Medical University
Keisuke MASUDA
KAWABATA Hospital
Chisato WATANABE
Osaka Medical College
Kenta FUJIWARA

12:30~14:00 Break

14:00~15:00 (60min.) Main Theme 13

Technical tips ⑥

Chair : Kenichi WATANABE

MT13-1 Interbody fusion of lumbar spine using extraforaminal approach through inter muscular approach of Wiltse
287p
Hayashi Orthopedic Clinic
Koken HAYASHI

MT13-2 Restoration of lumbar lordosis with PLIF using novel short interbody cage for lumbar degenerative disease

288p

Keiyu Orthopedic Hosp. Keiyu Spine Center
Hitoshi KONO, et al.

MT13-3 Tips for correction in lateral access corpectomy for kyphotic deformity after osteoporotic vertebral collapse
-The best procedure to obtain optimal alignment is from the anterior-

289p

Department of Orthopaedic Surgery, Kansai Medical University Hospital
Masayuki ISHIHARA, et al.

MT13-4 Surgical technique for lumbar degenerative spondylolisthesis in OLIF procedure and reduction effect

290p

Department of Orthopaedic Surgery, Katsuragi Hospital
Mutsumi OHUE, et al.

MT13-5 New simple and minimally invasive stabilization between the spinous process and implant, preventing adjacent segmental diseases

291p

Dept. of Orthopedics Surgery, Sanokousei General Hospital
Yuichiro TAKAHASHI, et al.

MT13-6 The spinal fusion with PPS and hook by mini incision for thoracolumbar burst fractures

292p

Orthopedic Department, Yuki Hospital
Takeshi OHKI, et al.

MT13-7 Vertebral body reconstruction from posterior approach by posterior insertion of an HA spacer for delayed paralysis due to osteoporotic vertebral fracture

293p

Dept. of Spine Surgery, JCHO Tokyo Yamate Medical Center
Toshikatsu MAMADA, et al.

7 September (Sat.) Room 5 (10 F Room 1007)

8:15~9:45 (90min.) Hands-on Session 4

Chair: Masakazu TAKAYASU

HO4 Total disc replacement (Mobi-C)

174p -Basic techniques and pitfalls-

Department of Orthopaedic Surgery, School of Medicine,
International University of Health and Welfare (IUHW)

Ken ISHII

Sponsored by Zimmer Biomet

9:45~10:30

Break

10:30~12:30 (120min.) Hands-on Session 6

HO6 Fundamental bone drilling techniques for practical spinal surgery

176p

Department of Neurosurgery, Tsukazaki Hospital

Nobuyuki SHIMOKAWA

12:30~14:00

Break

14:00~15:00 (60min.) Free Papers 8

Complications

Chair: Takamitsu TOKIOKA

F8-1 Facet joint violation and pedicle breach during percutaneous pedicle screw placement using coaxial fluoroscopic view of the pedicle -Evaluation by multiplanar CT-

350p

Department of Orthopaedic Surgery, Kyoto University

Koichi MURATA, et al.

F8-2 The outcome of the accuracy of percutaneous pedicle screws for lumbar spine during the period of introduction in a single hospital

351p

Orthopedic Department, Ogikubo Hospital

Kenshi DAIMON, et al.

F8-3 Accuracy of pedicle screw for the patients who underwent posterior fusion surgery and preventive measures for complications

352p

Department of Neurosurgery, Shin-yurigaoka General Hospital
Hidenori MATSUOKA, et al.

F8-4 Perioperative complications of percutaneous endoscopic surgery at lumbosacral tunnel

353p

Department of Neurosurgery, Neuro-spine Center, Daido Hospital
Yasuhiro NAKAJIMA, et al.

F8-5 Risk factor of postoperative neurological deficits following a stand-alone lateral lumbar interbody fusion

354p

Orthopedic Department, Showa University Koto Toyosu Hospital
Toshiyuki SHIRAHATA, et al.

F8-6 Iatrogenic nerve rupture in degenerative lumbar spine surgery

355p

Dept. of Orthop. Surge., Musashino Red Cross Hospital
Takashi YAMAZAKI, et al.

F8-7 Incidence and clinical features of postoperative symptomatic hematoma after spine surgery:
A multi-center study of 45 patients

356p

Department of Orthopedic Surgery,
Japan Community Health Care Organization Tamatsukuri Hospital
Soichiro MASUDA, et al.

F8-8 Analysis of detailed clinical characteristics of spinal subdural hematoma following lumbar decompression surgery

357p

Department of Orthopaedic Surgery, Kansai Electric Power Hospital /
Department of Orthopedic Surgery, Kitano Hospital
Masanori IZEKI, et al.