



Kim Hyeun Sung (Harrison Kim)
MD, PhD
Spine Center, Gangnam Nanoori Hospital

[Special Areas]

Minimally Invasive spine surgery & procedure
HNP (Herniated Nucleus Pulposus) lumbar cervical
Spinal stenosis
Degenerative Spinal disease
Endoscopic Spine Surgery
Minimally Invasive Lumbar Interbody Fusion

[Language]

English, Korean

[Academic Background and Work Experience]

1994 Graduate Chosun University Medical School
1994-1999 Trained in Chosun University Hospital: Internship, Residency

2004	21 century spine Hospital training; Seoul, Korea
2005	Anna Hospital training; Herne, Germany
2006	Certificated PhD
1999~2000	Head of Neurosurgery, a Military Unit of Medical Affairs of a 15th Division, The Army of South Korea
2000~2002	Head of Neurosurgery, Armed Forces Gwangju Hospital
2002~2003	Head of Neurosurgery, Gokseong Hospital
2003~2009.5	Head of Neurosurgery, Mokpo Hankook Hospital
2009.5~2014.8	Director of the Hurisarang Spine Hospital
2014.9~	Director of the Sun Han Hospital

[Professional Memberships]

- : A Faculty of International Cooperation of the KOMISS (Korean Minimally Invasive Spine Surgery Research Society)
- : A Faculty of the Korean Society of Peripheral Nervous System
- : A Faculty of the Korean Spinal Deformity Research Society
- : A Faculty of the Korean Spinal Osteoporosis Research Society
- : A Faculty of the Korean Society of IMS (Interventional Muscle and Soft Tissue Stimulation Therapy)
- : A Faculty of the Spinal Therapeutic Technology Related Link
- : A Faculty of the Korean Neurosurgery Hospital Society
- : A Journal Reviewer of World Neurosurgery
- : A Journal reviewer of Korean Neurological Society
- : Adjunct professor of the Medical College of the Chosun University
- : An Advisory Doctor of the 365 Homecare
- : An Advisory Doctor of the Korean Spinal Neurosurgery Society

Member of the Korean Neurosurgical Society

Member of the Korean Neurosurgical Spine Society

Member of the Korean Minimally Invasive Spine Surgery Research Society

Member of the Korean Society of Peripheral Nervous System

Member of the Korean Spinal Deformity Research Society

Member of the Korean Spinal Osteoporosis Research Society

Member of the Korean Society of Interventional Muscle and Soft Tissue Stimulation Therapy

Member of the Spinal Therapeutic Technology Related Link
Member of the Korean Musculoskeletal Laser and Radiofrequency society
Member of the Korean Society of Thermology
Member of the Korean Pain Society
Member of the Korean Neuro-Pain Society
Member of the Korean Society of Complementary & Integrative Medicine
Member of the NASS (North American Spine Society)
Member of the ISASS (International Society for the Advancement of Spine Surgery)
Member of the Eurospine
Member of the KASS (Korean American Spine Society)
Member of the AANS (American Association of Neurological Surgeons)
Member of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves
Member of the WCMISST (World Congress of Minimally Invasive Spine Surgery and Techniques)
Member of the ACMISST (Asian Congress of Minimally Invasive Spine Surgery and Techniques)
Member of the Asia Spine
Member of the World Spine Society
Member of the AO Spine

[Disclosure]

Solco Company: Apollon® Co-Designer / Solco India / Joimax® / S@S Care Tech

[Publication / Translation]

1. Korean Neurosurgical Spine Society. The Textbook of Spine. Seoul, Koonja Publishing, 2008
2. Jo DH, Lim KJ, Kim HS, Kim IH, Cho SH. Diagnosis and injection techniques in orthopedic medicine. Seoul, Hanmibook, 2005
3. Kim HS et al. Muscles testing and function with posture and pain. Seoul, Hanmibook, 2006
4. Kim HS, Cho SH. A manual of neuro-anatomical acupuncture. Seoul, Hanmibook, 2007
5. Lee SC, Kim KS, Kim HS et al. Diagnosis and treatment in lumbopelvic pain: Movement, stability and lumbopelvic pain. Seoul, E-public, 2010
6. Lim KJ, Kim KS, Kim HS, Lee HY, Heo K. Imaging of Pain. Seoul, Medbook, 2011

[Prize]

1. 2002 Best article award in The Korean Intramuscular Stimulation Therapy Association: Kim JK, Lim KJ, Kim C, Kim HS. Intramuscular Stimulation Therapy in Failed Back Surgery Syndrome Patients. J Korean Pain Soc 16 (1): 60-67, 2003
2. 2008 Best article award in the Korean Neurosurgical Society: Kim SW, Kim HS, Ju CI, Lee SM, Shin H. Balloon kyphoplasty in severe osteoporotic compression fracture: Is it a contraindication? Neurosurgery 2007 Mar 15; [Epub ahead of print]
3. 2013 Best Paper Award: The Factors associated with Early Relapse after Posterolateral Percutaneous Endoscopic Lumbar Discectomy. 6th ISMISS TURKEY
4. 2014 Abstract Prize: Spinal canal compromise related factors of surgical success in the percutaneous transforaminal endoscopic lumbar discectomy. 3rd Asia-MISS, 7th ISMISS TURKEY
5. 2018 Winner of the 2018 Paviz Kambin Award

[Published Articles]

1. Kim HS, Jang SJ, Jeong SH. Analysis for Circumstantial Factors in Onset of Subarachnoid Hemorrhage. J Korean Neurosurg Soc 27 : 939-946, 1998
2. Kim HS, Jang SJ, Jeong SH. Microcystic Meningioma - Case Report - J Korean Neurosurg Soc 27 : 1271-1276, 1998
3. Kim JK, Lim KJ, Kim C, Kim HS. Intramuscular Stimulation Therapy in Failed Back Surgery Syndrome Patients. J Korean Pain Soc 16 (1): 60-67, 2003
4. Kim BO, Kim SW, Lee SM, Kim HS, Shin H. Effectiveness of early surgery in children with traumatic subdural hygroma. Chosun University Medical School miscellany 2004
5. Kim HS, Ryu JK, Park IH, Jung KH, Sun KJ, Lim KJ, Jo DH. Diagnosis using the infrared thermography in lumbosacral pain and Gunn's IMNS treatment. Korean J Thermology 6: 27-34, 2005
6. Kim HS, Jung KH, Park IH, Ryu JK, Sun KJ, Lim KJ, Jo DH. The results of thermographic image and prolotherapy for the symptoms mimicking radiculopathy developed after trauma -3 cases report- Korean J Thermology 7: 81-86, 2006
7. Kim SW, Lee SM, Shin H, Kim HS. Percutaneous Vertebroplasty Following Postural Reduction in Unstable Vertebra Plana; Is it a Contraindication? Korean Neurosurg Soc 39: 92-95, 2006
8. Kim HS, Park IH, Rye JK, Kim SW, Shin H. Bone Cement Augmentation of Pedicular

Screwing in Severe Osteoporotic Spondylolisthetic Patients. J Korean Neurosurg Soc 42: 6-10, 2007

9. Lim HG, Kim HS, Kim SW, Shin H. Discal Cyst Diagnosed by Radiologic Finding. J Korean Neurosurg Soc 41: 418-420, 2007

10. Kim HS, Ju CI, Kim SW, Lee SM, Shin H. Balloon kyphoplasty in severe osteoporotic compression fracture: Is it a contraindication? Neurosurgery 2007 Mar 15; [Epub ahead of print]

11. Kim HS, Kim SW, Ju CI. Balloon Kyphoplasty through Extrapedicular Approach in the Treatment of Middle Thoracic Osteoporotic Compression Fracture : T5-T8 Level. J Korean Neurosurg Soc 42: 363-366, 2007

12. Kim HS, Kim SW, Lee SM, Shin H. Endoscopic Discectomy for the Cauda Equina Syndrome During Third Trimester of Pregnancy. J Korean Neurosurg Soc 42: 419-420, 2007

13. Kim HS, Park SK, Joy H, Park IH, Ryu JK, Sun KJ, Lim KJ, Jo DH. Diagnosis and Treatment of Sacral Asymlocation in Back Pain Patients - Clinical Experience of Prolotherapy - J Korean Pain Soc 20: 130-137, 2007

14. Jang JH, Kim HS, Kim SW. Severe Vertebral Erosion by Huge Symptomatic Pulsating Aortic Aneurysm. J Korean Neurosurg Soc 43: 117-118, 2008

15. Park IH, Kim HS, Park SK, Kim SW. Traumatic Pseudoaneurysm of the Superficial Temporal Artery Diagnosed by 3-dimensional CT Angiography. J Korean Neurosurg Soc 43: 209-211, 2008

16. Wang HS, Kim HS, Ju CI, Kim SW. Delayed Bone Cement Displacement Following Balloon Kyphoplasty. J Korean Neurosurg Soc 43: 212-214, 2008

17. Kim HS, Jo DH, Park IH, Ryu JK, Sun KJ, Lim KJ. Spontaneous Regression of a Radiculopathic Cervical Herniated Disc Following Non-surgical Treatment. Korean J Pain 21: 84-88, 2008

18. Kim HS, Park SK, Joy H, Ryu JK, Kim SW, Ju CI. Bone Cement Augmentation of Short Segment Fixation for Unstable Burst Fracture in Severe Osteoporosis. J Korean Neurosurg Soc 44: 8-14, 2008

19. Kim HS, Ju CI, Kim SW, Kim JG. Endoscopic Transforaminal Suprapedicular Approach in High Grade Inferior Migrated Lumbar Disc Herniation. J Korean Neurosurg Soc 45 : 67-73, 2009

20. Kim HS, Ju CI, Kim SW, Kim JG. Huge Psoas Muscle Hematoma due to Lumbar Segmental Vessel Injury Following Percutaneous Endoscopic Lumbar Discectomy. J Korean Neurosurg Soc 45: 192-195, 2009

21. Ju CI, Shin H, Kim SW, Kim HS. Sacral Perineural Cyst Accompanying Disc Herniation. J Korean Neurosurg Soc 45: 185-187, 2009

22. Chae KH, Ju CI, Lee SM, Kim BW, Kim SY, Kim HS. Strategies for Noncontained Lumbar Disc Herniation by an Endoscopic Approach : Transforaminal Suprapedicular Approach, Semi-Rigid Flexible Curved Probe, and 3-Dimensional Reconstruction CT with Discogram. J Korean Neurosurg Soc 46;312-6, 2009
23. Oh GS, Kim HS, Ju CI, Kim SW, Lee SM, Shin H. Comparison of the Results of Balloon Kyphoplasty Performed at Different Times after Injury. J Korean Neurosurg Soc 47;199-202, 2010
24. Kim HS, Park SK, Joy H, Park IH, Ryu JK, Ryu HS, Kim SW, Ju CI, Lim KJ, Jo DH. Hyperosmolar dextrose solution injection on lumbosacral medial branch and bilateral sacro-iliac joint for remnant buttock pain after vertebral augmentation procedures. The Pain Clinic 19; 293-297, 2007
25. Kim HS, Ju CI, Kim SW. Bilateral Pedicle Stress Fracture Accompanying Spondylolysis in a Patient with Ankylosing Spondylitis. J Korean Neurosurg Soc 48;70-2, 2010
Member of the AO Spine
26. Kim HS, Kim SH, Ju CI, Kim SW, Lee SM, Shin H. The Role of Bone Cement Augmentation in the Treatment of Chronic Symptomatic Osteoporotic Compression Fracture. J Korean Neurosurg Soc 48;490-5, 2010
27. Kim SH, Kim HS, Kim SW. Lumbar Disc Herniation in Tae Kwon Do Athletic Child. J Korean Neurosurg Soc 48;538-40, 2010
28. Kim HS, Kim SW, Lee SM, Shin H. Ligamentum Flavum Hematoma in the Adjacent Segment after a long Level Fusion. J Korean Neurosurg Soc 49;58-60, 2011
29. Jang KS, Kim HS, Ju CI, Kim SW, Lee SM, Shin H. Paraspinal Muscle Sparing versus Percutaneous Screw Fixation: A Prospective and Comparative Study for the Treatment of L5-S1 Spondylolisthesis. J Korean Neurosurg Soc 49(3);163-6, 2011
30. Kim HS, Lee SK, Kim SW, Shin H. Chronic Spinal Epidural Hematoma Related to Kummell's Disease. J Korean Neurosurg Soc 49(4);231-3, 2011
31. Kim HS, Kim HS, Kim SW, Shin H. Sudden Foot Drop Caused by Foraminal Gas Pseudocyst. J Korean Neurosurg Soc 49(6);384-6, 2011
32. Kim HS, Ju CI, Kim SW. Foraminal Synovial Cyst Associated with Ankylosing Spondylitis. J Korean Neurosurg Soc 50(1);54-6, 2011
33. Wang HS, Kim HY, Kim SW, Lee SM, Kim HS, Kim SH. Advantages of the Plating for Anterior Cervical Discectomy and fusion: Comparison with Wearing Cervical Collar Without Plate. Korean J Spine 8(3);161-164, 2011
34. Kim HS, Park KH, Ju CI, Kim SW, Lee SM, Shin H. Minimally Invasive Multi-Level Posterior Lumbar Interbody Fusion Using a Percutaneously Inserted Spinal Fixation System: Technical Tips, Surgical Outcomes. J Korean Neurosurg Soc 50;441-445, 2011

35. Kim HY, Kim HS, Kim SW, Ju CI, Lee SM, Park HJ. Short Segment Screw Fixation without Fusion for Unstable Thoracolumbar and Lumbar Burst Fracture : A Prospective Study on Selective Consecutive Patients. J Korean Neurosurg Soc 51 : 203-207, 2012
36. Ha SW, Ju CI, Kim SW, Lee SM, Kim YH, Kim HS. Clinical Outcomes of Percutaneous Endoscopic Surgery for Lumbar Discal Cyst. J Korean Neurosurg Soc 51 : 208-214, 2012
37. Kim HS, Kim SW, Lee WT. Spondylolisthesis Accompanying Bilateral Pedicle Stress Fracture at Two Vertebrae. J Korean Neurosurg Soc 51 : 388-390, 2012
38. Kim JH, Kim SW, Kim HS. Congenital Osseous Bridging of Lumbar Transverse Processes. J Korean Neurosurg Soc 52(2): 159-60, 2012
39. Jung HJ, Kim SW, Ju CI, Kim SH, Kim HS. Bone Cement-Augmented Short Segment Fixation with Percutaneous Screws for Thoracolumbar Burst Fractures Accompanied by Severe Osteoporosis. J Korean Neurosurg Soc 52 : 353-8, 2012
40. Kim HS, Kim SW, Ju CI et al. Short Segment Fixation for Thoracolumbar Burst Fracture Accompanying Osteopenia : A Comparative Study. J Korean Neurosurg Soc 53 : 26-30, 2013
41. Kim HS, Park JY. Comparative Assessment of Different Percutaneous Endoscopic Interlaminar Lumbar Discectomy (PEID) Techniques. Pain Physician 16(4):359-67, 2013
42. Kim MH, Kim SW, Kim SH, Kim HS. Extraforaminal Lumbar Interbody Fusion for Cage Migration after Screw Removal: A Case Report. Korean J Spine 10(2):104-106, 2013
43. Park JH, Do NY, Kim SW, Kim HS. Large Perforation of Hypopharynx Secondary to Anterior Cervical Approach : A Complicated Case.<Case Report> J Korean Neurosurg Soc 53: 377-9, 2013
44. Kim HS et al. Implant Removal after Percutaneous Short Segment Fixation for Thoracolumbar Burst Fracture: Does It Preserve Motion? J Korean Neurosurg Soc 55 : 73-77, 2014
45. Kim SW, Ju CI, Kim HS, Kim YS. Brown-Séquard Syndrome Caused by a Cervical Synovial Cyst. Case Report. J Korean Neurosurg Soc 55: 215-7, 2014 Kim DE, Kim HS, Kim SW, Kim HS. Clinical Analysis of Acute Radiculopathy after Osteoporotic Lumbar Compression Fracture. J Korean Neurosurg Soc 57(1):32-5, 2015
46. Kim HS et al. Minimally invasive percutaneous endoscopic 2 levels adjacent lumbar discectomy through 1 portal skin incision: preliminary study. Asian J Neurosurg. 2015
47. Kim do E, Kim HS, Kim SW, Kim HS. Clinical analysis of acute radiculopathy after osteoporotic lumbar compression fracture. J Korean Neurosurg Soc. 2015
48. Kim HS, Kim SW, Ju CI, Kim YS. Unilateral Pedicle Fracture Accompanying Spondylolytic Spondylolisthesis. J Korean Neurosurg Soc. 2015

49. Park JH, Kim SW, Kim HS, Ko JU. Rapid Resolution of Traumatic Pneumatocyst in the Cervical Spine: A Case Report. Korean J Spine. 2015
50. Park SJ, Kim HS, Lee SK, Kim SW. Bone Cement-Augmented Percutaneous Short Segment Fixation: An Effective Treatment for Kummell's Disease? J Korean Neurosurg Soc. 2015
51. Park SJ, Kim HS, Kim HS, Kim SW. Complete Separation of the Vertebral Body Associated with a Schmorl's Node Accompanying Severe Osteoporosis. J Korean Neurosurg Soc. 2015

[Presentations(P) & Lectures(L)]

1. 2003 (P) - Korean Society of Intramuscular Stimulation Therapy: Intramuscular Stimulation Therapy in Failed Back Surgery Syndrome Patients.
2. 2004 (L) - The Korean Neurosurgery Clinician Association Training Lecture
3. 2005 (P) - Korean Society of Thermology: Diagnosis using the infrared thermography in lumbosacral pain and Gunn's IMNS treatment
4. 2005 (P) - Korean Society of Thermology: The results of thermographic image and prolotherapy for the symptoms mimicking radiculopathy developed after trauma -3 cases report-
5. 2005 (P) - Korean Society of Complementary & Integrative Medicine: Diagnosis and Treatment of Sacral Asymlocation in Back Pain Patients - Clinical Experience of Prolotherapy
6. 2005 (L) - The Korean Neurosurgery Clinician Association Training Lecture
7. 2005 (L) - The Korean Academy of Family Medicine Training Lecture
8. 2005 (L) - The Korean Surgery Clinician Association Training Lecture
9. 2005 (L) - The Korean Pain Society Training Lecture
10. 2005 (L) - The Korean Neurosurgery Clinician Association Training Lecture
11. 2006 (L) - The Korean Neurosurgery Clinician Association Training Lecture
12. 2006: L-The Korean Pain Society Training Lecture
13. 2006 (L) - The Korean Orthopedic Honam Clinician Association Training Lecture
14. 2007 (L) - The Korean Neurosurgery Clinician Society Training Lecture
15. 2007 (L) - The Korean Pain Society Training Lecture
16. 2008 (P) - APSAS (Asia Pacific Spine Arthroplasty Society): Strategies for difficult non-contained lumbar disc herniation by endoscopic approach : Transforaminal Suprapedicular Approach, Semi-rigid Flexible Curved Probe, 3D reconstruction CT with discogram
17. 2008 (P) - WSPC (World Society of Pain Clinicians): Non-surgical Treatment for Severe Symptomatic Radiculopathic Cervical Herniated Nucleus Pulposus and Spontaneous Regression - 3 Cases Report –

18. 2008 (P) - WSPC (World Society of Pain Clinicians): Delayed Cement Displacement after Kyphoplasty in Kümmell's Disease -Case Report-
19. 2008 (P) - WSPC (World Society of Pain Clinicians): Hyperosmolar dextrose solution injection on bilateral lumbosacral medial branch and sacroiliac joint for remnant buttock pain after vertebral augmentation procedures
20. 2008 (P) - WCMISST (World Congress of Minimally Invasive Spine Surgery & Techniques): Endoscopic transforaminal suprapedicular approach in high grade inferior migrated lumbar disc
21. 2008 (P) - WCMISST (World Congress of Minimally Invasive Spine Surgery & Techniques): Percutaneous endoscopic discectomy in lumbar disc herniation combined with spinal stenosis having severe unilateral radiculopathic leg pain caused by dominant root compression: Transforaminal suprapedicular approach
22. 2008 (P) - Korean Minimally Invasive Spine Surgery Research Society (KOMISS): Screw reinforcing Percutaneous Short Segment Transpedicular Screwing for Unstable Thoracolumbar Burst Fractures
23. 2008 (P) - Korean Minimally Invasive Spine Surgery Research Society (KOMISS): Endoscopic Transforaminal Suprapedicular Approach in High Grade Inferior Migrated Lumbar Disc
24. 2008 (P) - Korean Neurosurgical Society: Hyperosmolar dextrose solution injection on bilateral lumbosacral medial branch and sacroiliac joint for remnant buttock pain after vertebral augmentation procedures
25. 2008 (L) - The Korean Pain Society Training Lecture
26. 2009 (P) - The Korean Neurosurgical Society: Spring Meeting: Screw reinforcing Percutaneous Short Segment Transpedicular Screwing for Unstable Thoracolumbar Burst Fractures
27. 2009 (P) - 9th SAS(Spine Arthroplasty Society) : Conventional Posterior Lumbar Interbody Fusion versus Mini-open Posterior Lumbar Interbody Fusion using the New Percutaneously Inserted Spinal Transpedicular Screwing System (oral)
28. 2009 (P) - 9th SAS(Spine Arthroplasty Society) : Clinical Results of Percutaneous Rigid Endoscopic Lumbar Discectomy for Various Types of the Lumbar Disc Herniations (oral poster)
29. 2009 (P) - WFNS(world Federation of Neurolosurgical societies): Conventional Posterior Lumbar Interbody Fusion versus Mini-open Posterior Lumbar Interbody Fusion using the New Percutaneously Inserted Spinal Transpedicular Screwing System (oral)
30. 2009 (P) - WFNS(world Federation of Neurolosurgical societies): Screw reinforcing Percutaneous Short Segment Transpedicular Screwing for Unstable Thoracolumbar Burst

Fractures (oral)

31. 2009 (P) - WFNS(world Federation of Neurological societies): Vertebral Augmentation Procedures for Long-standing Osteoporotic Vertebral Compression Fractures (oral)
32. 2009 (P) - WFNS(world Federation of Neurological societies): Screw reinforcing Percutaneous Short Segment Transpedicular Screwing for Unstable Thoracolumbar Burst Fractures (video)
33. 2009 (P) - The Korean Neurosurgical Society: Annual meeting: Conventional posterior lumbar interbody fusion Versus Modified Mini-open posterior lumbar interbody fusion Using the New Percutaneously Inserted Spinal transpedicular screwing System
34. 2009 (P) - The Korean Neurosurgical Society: Annual meeting: Sacroiliac Joint Syndrome: New Methods for Classification of Stage, Diagnosis and Treatment
35. 2009 (P) - The Korean Neurosurgical Society: Annual meeting: Comparison of the Surgical Results between Various Types of Posterior Fusion for Thoracolumbar Bursting Fractures
36. 2009 (L) - The Korean Neurosurgery Clinician Association Training Lecture
37. 2009 (L) - Korean Minimally Invasive Spine Surgery Research Society (KOMISS): Advanced course workshop
38. 2010 (P) - The Korean Neurosurgical Society: Spring meeting: Plenary session; Spinal Instability Predicting Score (SIPS) for Following Fractures after Vertebroplasty in Patients with Osteoporotic Vertebral Compression Fractures
39. 2010 (P) - 9th SAS(Spine Arthroplasty Society): Effectiveness of Vertebral Augmentation and Screw Reinforcing Posterior Short Segment Fixation for Thoracolumbar Burst Fractures
40. 2010 (P) - World spine V and World spine 2010 hands on course: Spinal Instability Predicting Score (SIPS) for Subsequent Fractures after Vertebroplasty in Patients with Osteoporotic Vertebral Compression Fractures
41. 2010 (P) - World spine V and World spine 2010 hands on course: Result of Minimally Invasive Modified Mini-open Posterior Lumbar Interbody Fusion
42. 2010 (P) - World spine V and World spine 2010 hands on course: Two Different Patterns of Sacroiliac Joint Unleveling
43. 2010 (P) - NASS (North American Spine Society) 25th annual meeting: Spinal Instability Predicting Score (SIPS) for Following Fractures after Vertebroplasty in Patients with Osteoporotic Vertebral Compression Fractures
44. 2010 (P) - The Korean Neurosurgical Society: Annual meeting: Effect of Stabilization on Vertebral Augmentation Procedures after Osteoporotic Vertebral Compression Fractures

45. 2010 (L) - The Korean Neurosurgery Clinician Association Training Lecture
46. 2010 (L) - Korean Minimally Invasive Spine Surgery Research Society (KOMISS): symposium & cadaver workshop
47. 2010 (L) - Korean Minimally Invasive Spine Surgery Research Society (KOMISS): Advanced course workshop
48. 2010 (L) - The Korean Society of Peripheral Nervous System
49. 2010 (L) - The Korean Neurological Pain Society
50. 2011 (P) - The 2nd annual meeting of the SAS ME(Middle East): Multi-level Mini-open PLIF using the Rimmed Head Type Percutaneous Screw System
51. 2011 (P) - The 2nd annual meeting of the SAS ME(Middle East): Percutaneous Endoscopic Lumbar Discectomy for Highly Inferior Migrated Lumbar Disc
52. 2011 (P) - The 2nd annual meeting of the SAS ME(Middle East): Percutaneous Screw Fixation for Thoracolumbar Burst Fractures.
53. 2011 (P) - Korean Society for the Advancement of Spine Surgery: Spinal instability predicting score: SIPS): Spinal instability predicting score(SIPS) for subsequent fractures after vertebroplasty in patients with osteoporotic vertebral compression fractures
54. 2011 (P) - Korean Society for the Advancement of Spine Surgery: The effect of stabilization on vertebral augmentation procedures after a first event, single level osteoporotic vertebral compression fractures in the early old aged patients
55. 2011 (P) - Korean Society for the Advancement of Spine Surgery: Recurrence after discectomy of herniated lumbar L5-S1 discs: short-term follow-up results; fissure fragmentectomy and sealing procedure for a percutaneous endoscopic interlaminar approach
56. 2011 (P) - 29th annual spring meeting of the Korean Neurosurgical Society: Recurrence after Discectomy of Herniated Lumbar L5-S1 Discs: Short-term Follow-up Results; Fissure Fragmentectomy and Sealing procedure for a Percutaneous Endoscopic Interlaminar Approach
57. 2011 (P) - 10th SAS(Spine Arthroplasty Society): Spinal instability predicting score(SIPS) for subsequent fractures after vertebroplasty in patients with osteoporotic vertebral compression fractures
58. 2011 (P) - 10th SAS(Spine Arthroplasty Society): The effect of stabilization on vertebral augmentation procedures after a first event, single level osteoporotic vertebral compression fractures in the early old aged patients.
59. 2011 (P) - 1st Asian Congress of Minimally Invasive Spine Surgery and Techniques: Recurrence after Discectomy of Herniated Lumbar L5-S1 Discs: Short-term Follow-up Results; Fissure Fragmentectomy and Sealing procedure for a Percutaneous Endoscopic Interlaminar Approach

60. 2011 (P) - 1st Asian Congress of Minimally Invasive Spine Surgery and Techniques: The effect of stabilization on vertebral augmentation procedures after a first event, single level osteoporotic vertebral compression fractures in the early old aged patients.
61. 2011 (P) - 1st Asian Congress of Minimally Invasive Spine Surgery and Techniques: Magnetic Resonance Image Features of Short-term Recurrent HNP after Lumbar Discectomy.
62. 2011 (P) - 1st Asian Congress of Minimally Invasive Spine Surgery and Techniques: Spinal Instability Predicting Score (SIPS) for Subsequent Fractures after Vertebroplasty in Patients with Osteoporotic Vertebral Compression Fractures
63. 2011 (P) - 2nd Annual Meeting of Asia Spine: Spinal Instability Predicting Score (SIPS) for Subsequent Fractures after Vertebroplasty in Patients with Osteoporotic Vertebral Compression Fractures
64. 2011 (P) - 2nd Annual Meeting of Asia Spine: Recurrence after Discectomy of Herniated Lumbar L5-S1 Discs: Short-term Follow-up Results; Fissure Fragmentectomy and Sealing procedure for a Percutaneous Endoscopic Interlaminar Approach
65. 2011 (P) - 2nd Annual Meeting of Asia Spine: Minimally invasive Multi-level posterior lumbar interbody fusion using a rimmed head type percutaneous transpedicular screw fixation system
66. 2011 (P) - Eurospine: Spinal Instability Predicting Score (SIPS) for Subsequent Fractures after Vertebroplasty in Patients with Osteoporotic Vertebral Compression Fractures
67. 2011 (L) - The Korean Neurosurgery Clinician Association Training Lecture
68. 2011 (L) - The Korea Placenta Clinical Research
69. 2011 (L) - Korean Neurosurgical Society: Luncheon Seminar: Percutaneous endoscopic lumbar discectomy; Benefits and Limitations
70. 2011 (L) - The 1st Asian Congress of Minimally Invasive Spine Surgery and Techniques: Precongress didactic workshop; Percutaneous endoscopic lumbar discectomy; Transforaminal approach; Down migrated herniation
71. 2011 (L) - The Korean Neurosurgery Clinician Association Training Lecture
72. 2011 (L) - The Korean Korean Academy of Family Medicine: Gwangju-Jeolla part Training Lecture
73. 2011 (L) - Korean Minimally Invasive Spine Surgery Research Society (KOMISS): Advanced course workshop
74. 2011 (L) - International Society for Minimal Intervention in Spinal Surgery Korea [ISMISS Korea]; Cadaver Workshop
75. 2012 (P) - ISASS: Leg pain presented as a Lumbar Radiculopathic Pain due to Acute Aggravated Leg Pain after Lumbar Osteoporotic Vertebral Compression Fractures
76. 2012 (P) - ISASS: Non-fusion, Fracture Vertebral Augmented, Percutaneous Short

Segment Transpedicular Screwing after postural reduction and Percutaneous Implant Removal in Neurologically Intact Unstable Thoracolumbar Burst Fractures

77. 2012 (P) - ISASS: Early Relapse after Discectomy of Herniated Lumbar L5-S1 Discs: Fissure Fragmentectomy and Sealing procedure for a Percutaneous Endoscopic Interlaminar Approach

78. 2012 (P) - ISASS: Minimally Invasive Multi-level Posterior Lumbar Interbody Fusion using the Modified Mini-open and Trans-facet Approach with the Rimmed Head Type Percutaneous Transpedicular Screw System characterized by a Combination of Axis Guidance and Detachable Extender Systems for Degenerative Spinal Disease Requiring Posterior Decompression

79. 2012 (P) - The Korean Neurosurgical Society: Spring meeting: The Factors associated with Early Relapse after Posterolateral Percutaneous Endoscopic Lumbar Discectomy

80. 2012 (P) - The Korean Neurosurgical Society: Spring meeting: Non-fusion, Fracture Vertebral Augmented, Percutaneous Short Segment Transpedicular Screwing after Postural Reduction and Percutaneous Implant Removal in Neurologically Intact Unstable Thoracolumbar Burst Fractures

81. 2012 (L) – SIMINCO Rio: Minimally Invasive Percutaneous Transpedicular Screwing using the Rimmed Head Type Percutaneous Transpedicular Screw Fixation System Apollon: Mini-open PLIF / TLIF / PSF

82. 2012 (Live Surgery) – SIMINCO Rio: MIS TLIF

83. 2012 (P) - Korean Minimally Invasive Spine Surgery Research Society (KOMISS): The Factors associated with Early Relapse after Posterolateral Percutaneous Endoscopic Lumbar Discectomy

84. 2012 (P) - WCMISST: Invited Speaker: International Special Guest in III WCMISST: Minimally Invasive Multi-level Lumbar Interbody Fusion using the Modified Mini-open PLIF Approach with the Rimmed Head Type Percutaneous Transpedicular Screw System for Degenerative Spinal Disease

85. 2012 (P) - WCMISST: Invited Speaker: International Special Guest in III WCMISST: Comparison of the Surgical Results between Various Types of Posterior Fusion for Thoracolumbar Burst Fractures

86. 2012 (P) - WCMISST: Invited Speaker: International Special Guest in III WCMISST: Percutaneous Short Segment Transpedicular Screwing and Percutaneous Implant Removal in Thoracolumbar Fractures

87. 2012 (P) - WCMISST: Invited Speaker: International Special Guest in III WCMISST: Early Relapse after Discectomy of Herniated Lumbar L5-S1 Discs: Fissure Fragmentectomy and Sealing procedure for a Percutaneous Endoscopic Interlaminar Approach

88. 2012 (P) - The 52th annual spring meeting of the Korean Neurosurgical Society: Reduction of moderate to high grade Spondylolisthesis after circumferential releasing technique under the mini-open posterior lumbar interbody fusion
89. 2012 (P) - The 52th annual spring meeting of the Korean Neurosurgical Society: How is the start of the spinal pain, and how is that progression ? I - MRI Patterns of Acute SSIIDD (Segmental Subluxation Induced Internal Disc Derangement)
90. 2012 (P) - The 52th annual spring meeting of the Korean Neurosurgical Society: How is the start of the spinal pain, and how is that progression ? II - Segmental Complex Restoration (SCR) Therapy of Acute SSIIDD (Segmental Subluxation Induced Internal Disc Derangement)
91. 2012 (P) - 13th IMLAS KOREA: Reherniation after Discectomy of Herniated Lumbar L5-S1 Discs: Short-term Follow-up Results. Fissure Fragmentectomy and Sealing procedure for a Percutaneous Endoscopic Interlaminar Approach
92. 2012 (L) - The Korean Neurosurgery Clinician Association Training Lecture: TPI
93. 2012 (L) - SIMINCO2012, Brazil: Minimally Invasive Percutaneous Transpedicular Screwing using the Rimmed Head Type Percutaneous Transpedicular Screw Fixation System: Apollon: Mini-open PLIF / TLIF
94. 2012 (L) - Apollon Workshop: Sao Paulo
95. 2012 (L) - ISMISS Korea Lecture: Minimally Invasive Spine Endoscopic Symposium: Percutaneous Transforaminal Endoscopic Lumbar Discectomy
96. 2012 (L) - The Korean Neurosurgery Clinician Association Training Lecture: Prolotherapy
97. 2012 (L) - WCMISST 2012, Brazil: Lecture: minimally invasive TLIF and PLIF using the rimmed head type percutaneous transpedicular screw fixation system named Apollon system
98. 2012 (L) - WCMISST 2012, Brazil: Workshop: Apollon System
99. 2012 (L) - Konyang University Hospital: Minimally Invasive Spine Surgery
100. 2012 (L) - Bogang Spine Hospital: Segmental Complex Restoration (SCR) Therapy. Segmental Subluxation Induced Internal Disc Derangement (SSIIDD)
101. 2012 (L) - International KOMISS Percutaneous Endoscopic Spinal Surgery Workshop: PERCUTANEOUS ENDOSCOPIC LUMBAR DISCECTOMY Transforaminal Approach: Surgical Anatomy & Pitfalls
102. 2012 (L) - ISMISS KOREA Percutaneous Endoscopic Spine Surgery Workshop: PERCUTANEOUS ENDOSCOPIC LUMBAR DISCECTOMY. Transforaminal Approach
103. 2013 (P) - Korean Spinal Deformity Research Society: Reduction of moderate to high grade Spondylolisthesis after circumferential releasing technique under the mini-open posterior lumbar interbody fusion
104. 2013 (P) - 2nd ACMISST JAPAN: Structural Preservation Percutaneous Endoscopic

Lumbar Interlaminar Discectomy for L5-S1 HNP: Ligamentum Flavum Splitting, Fissure Fragmentectomy and Sealing Procedure

105. 2013 (P) - 2nd ACMISST JAPAN: Reduction of moderate to high grade Spondylolisthesis after circumferential releasing technique under the mini-open posterior lumbar interbody fusion

106. 2013 (P) - ISASS, Vancouver: Reduction of moderate to high grade Spondylolisthesis after circumferential releasing technique under the mini-open posterior lumbar interbody fusion

107. 2013 (P) - ISASS, Vancouver: The Factors associated with Early Relapse after Posterolateral Percutaneous Endoscopic Lumbar Discectomy

108. 2013 (P) - ISASS, Vancouver: How is the start of the spinal pain, and how is that progression ? II - Segmental Complex Restoration (SCR) Therapy of Acute SSIIDD (Segmental Subluxation Induced Internal Disc Derangement)

109. 2013 (P) - KNS Spring Meeting: Spinal Canal Compromise Related Factors of Surgical Success in the Percutaneous Transforaminal Endoscopic Lumbar Discectomy

110. 2013 (P) - 6h ISMISS TURKEY: Reduction of moderate to high grade Spondylolisthesis after circumferential releasing technique under the mini-open posterior lumbar interbody fusion

111. 2013 (P) - 6h ISMISS TURKEY: The Factors associated with Early Relapse after Posterolateral Percutaneous Endoscopic Lumbar Discectomy (Best paper)

112. 2013 (P) - Korean Minimally Invasive Spine Surgery Research Society (KOMISS): Structural Preservation Percutaneous Endoscopic Lumbar Interlaminar Discectomy: Ligamentum Flavum Splitting, Fissure Fragmentectomy and Sealing Procedure

113. 2013 (L) - 6h ISMISS JAPAN: Moderator: Lumbar Canal stenosis

114. 2013 (P) - 6h ISMISS JAPAN: Structural Preserving Percutaneous Endoscopic Lumbar Interlaminar Discectomy: Ligamentum Flavum Splitting, Fissure Fragmentectomy and Sealing Procedure

115. 2013 (P) - KASS (Korean American Spine Society): Non-fusion, Fracture Vertebral Augmented, Percutaneous Short Segment Transpedicular Screwing after Postural Reduction and Percutaneous Implant Removal in Neurologically Intact Thoracolumbar Fractures

116. 2013 (P) - KASS (Korean American Spine Society): Structural Preserving Percutaneous Endoscopic Lumbar Interlaminar Discectomy: Ligamentum Flavum Splitting, Fissure Fragmentectomy and Sealing Procedure

117. 2013 (P) - WFNS 2013, Korea: Reduction of Moderate to High Grade Spondylolisthesis after Circumferential Releasing Technique under the Mini-open Posterior Lumbar Interbody Fusion

118. 2013 (P) - WFNS 2013, Korea: The Factors Associated with Early Release after

Posterolateral Percutaneous Endoscopic Lumbar Discectomy

119. 2013 (P) - WFNS 2013, Korea: Early Relapse after discectomy of Herniated Lumbar L5-S1 Discs
120. 2013 (P) - WFNS 2013, Korea: Non-fusion, Fracture Vertebral Augmented, Percutaneous Short Segment Traspedicular Screwing
121. 2013 (P) - WFNS 2013, Korea: How is the Start of the Spinal Pain, and How Is That Progression ? I
122. 2013 (P) - WFNS 2013, Korea: How is the Start of the Spinal Pain, and How Is That Progression ? II
123. 2013 (P) - Asia Spine: Structural Preservation PEID
124. 2013 (P) - Asia Spine: Short Segment PSF and Implant Removal using Same Rout
125. 2013 (P) - KNS Spring Meeting: Structural Saving PEID
126. 2013 (P) - KNS Spring Meeting: Canal Remodeling after Postural Reduction and Lordotic Percutaneous Screwing
127. 2013 (P) - The Korean Society of Peripheral Nervous System: Segmental Complex Injection Therapy for Acute SSIIDD
128. 2013 (L) - Fortis Hospital Live Minimally Invasive Spine Surgery Workshop: Mini Open TLIF & PLIF: Percutaneous Apollon system
129. 2013 (L) - Fortis Hospital Live Minimally Invasive Spine Surgery Workshop: Slip Reduction of Spondylolisthesis
130. 2013 (L) - Fortis Hospital Live Minimally Invasive Spine Surgery Workshop: PSF & Implant Removal
131. 2013 (L) - Fortis Hospital Live Minimally Invasive Spine Surgery Workshop: PELD: Transforaminal Approach: Surgical Anatomy & Pitfalls
132. 2013 (L) - Fortis Hospital Live Minimally Invasive Spine Surgery Workshop: PEID - Structure Preservation PEID
133. 2013 (L) - Fortis Hospital Live Minimally Invasive Spine Surgery Workshop: Segmental Complex Restoration (SCR) Therapy of Acute SSIIDD (Segmental Subluxation Induced Internal Disc Derangement)
134. 2013 (Live Surgery) - Fortis Hospital Live Minimally Invasive Spine Surgery Workshop: MIS TLIF
135. 2013 (Live Surgery) - Fortis Hospital Live Minimally Invasive Spine Surgery Workshop: MIS Discectomy
136. 2013 (L) - Wooridul Hospital Friday Symposium: SPINAL INJECTION THERAPY: Segmental Complex Restoration (SCR) Therapy; Segmental Subluxation Induced Internal Disc Derangement (SSIIDD)

137. 2013 (L) - Sendai-Solco Brazil Minimally Invasive Spine Surgery Live Surgery and Workshop: Mini-open TLIF / PLIF / ELIF: Apollon System: Percutaneous Transpedicular Screw Fixation System
138. 2013 (L) - Sendai-Solco Brazil Minimally Invasive Spine Surgery Live Surgery and Workshop: Reduction of moderate to high grade Spondylolisthesis after circumferential releasing technique under the mini-open posterior lumbar interbody fusion
139. 2013 (L) - Sendai-Solco Brazil Minimally Invasive Spine Surgery Live Surgery and Workshop: Percutaneous Short Segment Transpedicular Screwing & Percutaneous Implant Removal in Thoracolumbar Fractures
140. 2013 (L) - Sendai-Solco Brazil Minimally Invasive Spine Surgery Live Surgery and Workshop: PERCUTANEOUS ENDOSCOPIC LUMBAR DISCECTOMY: Transforaminal Approach: Surgical Anatomy & Pitfalls
141. 2013 (L) - Sendai-Solco Brazil Minimally Invasive Spine Surgery Live Surgery and Workshop: Structural Preservation Percutaneous Endoscopic Lumbar Interlaminar Discectomy for L5-S1 HNP: : Ligamentum Flavum Splitting, Fissure Fragmentectomy and Sealing Procedure
142. 2013 (L) - The Korean Neurosurgery Clinician Association Training Lecture
143. 2013 (L) - IITS 2013 Korea: Spinal Canal Compromise Factors
144. 2013 (L) - IITS 2013 Korea: Structural Preservation PEID
145. 2013 (L) - IITS 2013 Korea: Short Segment PSF and Implant Removal using Same Route
146. 2013 (L) - IITS 2013 Korea: Segmental Complex Injection Therapy for Acute SSIIDD
147. 2013 (L) - WFNS 2013, Korea: Structural preservation percutaneous endoscopic lumbar discectomy
148. 2013 (L) - WENMISS: Reduction of moderate to high grade Spondylolisthesis after circumferential releasing technique under the mini-open posterior lumbar interbody fusion
149. 2013 (L) - WENMISS: Structural Preservation Percutaneous Endoscopic Lumbar Interlaminar Discectomy for L5-S1 HNP: Ligamentum Flavum Splitting, Fissure Fragmentectomy and Sealing
150. 2013 (Live Surgery) – India Continental Hospital: MIS TLIF
151. 2013 (L) – India Continental Hospital: Hyderabad-01-Surgical Anatomy and Pitfalls
152. 2013 (L) – India Continental Hospital: Hyderabad-02-Mini-open TLIF & PLIF
153. 2013 (L) – India Continental Hospital: Hyderabad-03-Slip Reduction of Spondylolisthesis
154. 2013 (L) - The Korean Clinician Association Training Lecture
155. 2013 (L) - Korean Minimally Invasive Spine Surgery Research Society (KOMISS):

Advanced Course Workshop

156. 2013 (L) - Thailand Minimally Invasive Spine Surgery: Symposium / Live Surgery: Interlaminar percutaneous endoscopic lumbar discectomy
157. 2013 (L) - Thailand Minimally Invasive Spine Surgery: Symposium / Live Surgery: Percutaneous screwing and implant removal for thoracolumbar spine fracture
158. 2014 (P) - Korean Spinal Deformity Research Society: PSF for Kummell disease
159. 2014 (L) - 3rd ACNS Educational course Karachi: Hands-on Cadaver Workshop: TLIF
160. 2014 (L) - 3rd ACNS Educational course Karachi: Mini-open TLIF, PLIF and ELIF using the Percutaneous Transpedicular Screw Fixation System
161. 2014 (L) - 3rd ACNS Educational course Karachi: Structural Preservation Percutaneous Endoscopic Lumbar Interlaminar Discectomy: Ligamentum Flavum Splitting, Fissure Fragmentectomy and Sealing Procedure
162. 2014 (L) - Wiltse Memorial Hospital: Mini-open TLIF
163. 2014 (L) - Wiltse Memorial Hospital: PELD-Transforaminal-Surgical Anatomy and Pitfalls
164. 2014 (L) - Wiltse Memorial Hospital: PSF for Kummell disease
165. 2014 (L) - The 1st Vietnam-Korea MISS Symposium: Cutting Edge of Minimally Invasive Spine Surgery: Mini-Open PLIF
166. 2014 (L) - The 1st Vietnam-Korea MISS Symposium: Cutting Edge of Minimally Invasive Spine Surgery: Transforaminal PELD
167. 2014 (L) - Orthotrends 2014: Slip Reduction of Spondylolisthesis
168. 2014 (L) - International MIS Congress Kuala Lumpur 2014: Structural Preservation PEID
169. 2014 (L) - International MIS Congress Kuala Lumpur 2014: PELD-Surgical Anatomy and Pitfalls
170. 2014 (P) - International MIS Congress Kuala Lumpur 2014: Minimally invasive Multi-level posterior lumbar interbody fusion using a rimmed head type percutaneous transpedicular screw fixation system
171. 2014 (P) - International MIS Congress Kuala Lumpur 2014: Slip Reduction of Spondylolisthesis
172. 2014 (L) - The Korean Spinal Osteoporosis Research Society: PREVENT POSTOPERATIVE COMPLICATION-1: SCREW LOOSENING
173. 2014 (L) - 1st WCWFMISS TURKMISS ISTANBUL 2014: Slip Reduction of spondylolisthesis
174. 2014 (L) - 1st WCWFMISS TURKMISS ISTANBUL 2014: Surgical Anatomy and Pitfalls of PELD

175. 2014 (L) - 1st WCWFMISS TURKMISS ISTANBUL 2014: Mini-open TLIF, PLIF & ELIF
176. 2014 (L) - 1st WCWFMISS TURKMISS ISTANBUL 2014: PSF and Implant removal for TLBFs
177. 2014 (L) - 1st WCWFMISS TURKMISS ISTANBUL 2014: Structural Preservation PEID
178. 2014 (P) - ISASS: Structural preservation percutaneous endoscopic lumbar interlaminar discectomy: Ligamentum flavum splitting technique + Fissure fragmentectomy and sealing technique
179. 2014 (P) - ISASS: Spontaneous spinal canal remodeling after postural pillow reduction and lordotic, posterior column compressive percutaneous transpedicular screwing in thoracolumbar burst fractures
180. 2014 (P) - Eurospine Spring Meeting: Structural preserving percutaneous endoscopic lumbar interlaminar discectomy: ligamentum flavum splitting, fissure fragmentectomy and sealing procedure
181. 2014 (P) - Eurospine Spring Meeting: Spontaneous reduction technique of moderate to high grade spondylolisthesis
182. 2014 (P) - Korean Minimally Invasive Spine Surgery Research Society (KOMISS): Postural reduction, vertebral augmented percutaneous screwing for Kummell's disease
183. 2014 (P) - Korean Minimally Invasive Spine Surgery Research Society (KOMISS): Facet joint preserving, unilateral approach, bilateral splitting ligamentum flavectomy (UBSF)
184. 2014 (P) - WCMISST: Reduction of moderate to high grade spondylolisthesis after circumferential releasing technique under the mini-open PLIF
185. 2014 (P) - WCMISST: Facet Joint preservation, unilateral approach, bilateral splitting ligamentum flavectomy (UBSF) for degenerative lumbar spinal stenosis
186. 2014 (P) - WCMISST: Spinal canal compromise related factors of surgical success in percutaneous transforaminal endoscopic lumbar discectomy
187. 2014 (P) - WCMISST: Spontaneous spinal canal remodeling after postural pillow reduction and lordotic, posterior column compressive percutaneous transpedicular screwing in thoracolumbar burst fractures
188. 2014 (P) - WCMISST: Structural preservation percutaneous endoscopic lumbar interlaminar discectomy: ligamentum flavum splitting technique + fissure fragmentectomy and sealing technique
189. 2014 (L) - Korean Society of Intramuscular Stimulation Therapy: Lumbar reduction therapy with IMS therapy
190. 2014 (P) - KASS: Spontaneous spinal canal remodeling after postural pillow reduction

and lordotic, posterior column compressive percutaneous transpedicular screwing in thoracolumbar burst fractures

191. 2014 (P) - KASS: Spinal canal compromise related factors of surgical success in the percutaneous transforaminal endoscopic lumbar discectomy

192. 2014 (P) - KASS: Facet Joint preserving, unilateral approach, bilateral splitting ligamentum flavectomy

193. 2014 (L) - Wooridul didactic course: Cadaver workshop for percutaneous endoscopic spine surgery

194. 2014 (L) - Korean Society of Occupational & Environmental Medicine: Clinical diagnosis of spinal disease / Radiological consideration of spinal disease

195. 2014 (L) - IV COMINCO: Live surgery(<http://noticias.r7.com/jornal-da-record/videos/nova-tecnica-permite-cirurgia-da-coluna-com-menos-dor-e-mais-precisao-31072014>): Mini-open TLIF for spondylolisthesis

196. 2014 (L) - IV COMINCO: Surgical anatomy and pitfalls of transforaminal PELD

197. 2014 (L) - IV COMINCO: Structural preservation interlaminar PELD

198. 2014 (L) - IV COMINCO: Mini-open TLIF/PLIF/ELIF using the percutaneous screw system

199. 2014 (L) - IV COMINCO: PSF and implant removal for thoracolumbar fracture

200. 2014 (L) - IV COMINCO: Slip reduction of moderate to high grade spondylolisthesis

201. 2014 (Live Surgery) - IV COMINCO: MIS TLIF

202. 2014 (P) - 10th ACNS: Reduction of moderate to high grade spondylolisthesis after circumferential releasing technique under the min-open PLIF

203. 2014 (P) - 10th ACNS: Structural preservation percutaneous endoscopic lumbar interlaminar discectomy: ligamentum flavum splitting technique + fissure fragmentectomy and sealing technique

204. 2014 (P) - Korean Spinal Neurosurgery Society: Spontaneous spinal canal remodeling after postural pillow reduction and lordotic, posterior column compressive, percutaneous transpedicular screwing in thoracolumbar burst fractures

205. 2014 (P) - Korean Spinal Neurosurgery Society: Postural reduction, vertebral augmented percutaneous screwing for kummell's disease

206. 2014 (P) - Neurosurgical Society of Australasia: Implant removal after percutaneous short segment fixation for thoracolumbar burst fracture: Does it preserve motion?

207. 2014 (P) - The Korean Neurosurgical Society: Facet Joint Preserving, Unilateral Approach, Bilateral Splitting Ligamentum Flavectomy (UBSF) for Degenerative Lumbar Spinal Stenosis

208. 2014 (P) - The Korean Neurosurgical Society: Percutaneous Endoscopic Lumbar

Discectomy using the Calcification Floating Technique for Symptomatic Partial Calcified Lumbar HNP

209. 2014 (L) - 3rd ASIA-MISS(Asian Congress of Minimally Invasive Spine Surgery & Techniques): Reduction of moderate to high grade spondylolisthesis after circumferential releasing technique under the min-open PLIF

210. 2014 (P) - 3rd ASIA-MISS(Asian Congress of Minimally Invasive Spine Surgery & Techniques): Facet Joint Preserving, Unilateral Approach, Bilateral Splitting Ligamentum Flavectomy (UBSF) for Degenerative Lumbar Spinal Stenosis

211. 2014 (P) - 3rd ASIA-MISS(Asian Congress of Minimally Invasive Spine Surgery & Techniques): Spontaneous spinal canal remodeling after postural pillow reduction and lordotic, posterior column compressive, percutaneous transpedicular screwing in thoracolumbar burst fractures

212. 2014 (P) - 3rd ASIA-MISS(Asian Congress of Minimally Invasive Spine Surgery & Techniques): Abstract Prize: Spinal canal compromise related factors of surgical success in the percutaneous transforaminal endoscopic lumbar discectomy

213. 2014 (Cadaver Workshop) - 3rd ASIA-MISS(Asian Congress of Minimally Invasive Spine Surgery & Techniques): PELD

214. 2014 (L) - MISSICON: Saw bone cadaver workshop on endoscopic decompression

215. 2014 (L) - MISSICON: Limitations and problems of transforaminal endoscopic approach

216. 2014 (L) - KOMISS: Pitfall & tips for percutaneous endoscopic lumbar surgery

217. 2014 (L) - KOMISS: Debate session: case discussion for lumbar spinal disease

218. 2014 (P) - KOMISS: Reduction of moderate to high grade spondylolisthesis after circumferential releasing technique under the min-open PLIF

219. 2014 (P) - KOMISS: Structural preservation percutaneous endoscopic lumbar interlaminar discectomy: ligamentum flavum splitting technique + fissure fragmentectomy and sealing technique

220. 2014 (P) - KOMISS: Percutaneous Endoscopic Lumbar Discectomy using the Calcification Floating Technique for Symptomatic Partial Calcified Lumbar HNP

221. 2014 (L) - The Korean Spinal Osteoporosis Research Society: Failed vertebroplasty or kyphoplasty

222. 2014 (L) - AOSpine Advances Video Seminar in MISS: Endoscopic discectomy for complicated cases

223. 2015 (L) - The 3rd Didactic Course of Endoscopic Spine Procedures: Practical surgical anatomy for interlaminar approach

224. 2015 (Cadaver Workshop) - The 3rd Didactic Course of Endoscopic Spine Procedures:

PELD

225. 2015 (L) – The Korean Spinal Neurosurgery Society: Which one is less for L4/5 degenerative spondylolisthesis: MIS TLIF
226. 2015 (L) - 6TH ACNS Educational Course: Minimally invasive spine surgery
227. 2015 (Cadaver Workshop) - 6TH ACNS Educational Course: Spine Surgery
228. 2015 (L) – Karachi Spine Update: Lumbar Spine Stenosis to fuse or not
229. 2015 (L) – Karachi Spine Update: HOW I DO IT(Video) MIS Pedicle screw placement
230. 2015 (L) – Karachi Spine Update: HOW I DO IT(Video) MIS TL Fracture
231. 2015 (L) – Karachi Spine Update: HOW I DO IT(Video) Endoscopic Discectomy
232. 2015 (L) – Karachi Spine Update: HOW I DO IT(Video) Lumbar Spinal Stenosis
233. 2015 (L) – Karachi Spine Update: Degenerative Deformity
234. 2015 (L) – Karachi Spine Update: Management options for TL Trauma
235. 2015 (L) – Karachi Spine Update: How I Do It (Video) TLIF
236. 2015 (Live Surgery) – Karachi Spine Update: Live Surgery TLIF
237. 2015 (L) – Karachi Spine Update: Case Discussion My Suggestions -TL Fracture
238. 2015 (L) – The Korean Spinal Osteoporotic Research Society: Cement augmentation for screw fixation: Is that really helpful? - Pros: It is helpful.
239. 2015 (L) – IMS Educational Course: Lumbar TPI
240. 2015 (P) – ISASS: Motion Segment Preservation, Unilateral Approach, Bilateral Splitting Ligamentum Flavectomy (UBSF) for Degenerative Lumbar Spinal Stenosis
241. Percutaneous Pedicle Screw Fixation with Polymethylmethacrylate Augmentation in the Treatment of Thoraco-lumbar Intravertebral Pseudoarthrosis Associated with Kümmell's Osteonecrosis
242. 2015 (P) – AACNS: Minimally invasive extraforaminal lumbar interbody fusion
243. 2015 (P) – AACNS: Percutaneous Endoscopic Floating Technique of Calcified HNP-AACNS
244. 2015 (P) – AACNS: Percutaneous Endoscopic Contralateral Interlaminar Approach for Foraminal to Superior Migrated L5-S1 HNP-AACNS
245. 2015 (L) – Ganga Ram Spine Course: Surgical Anatomy and Pitfalls of PELD
246. 2015 (L) – Ganga Ram Spine Course: Structural Preservation PEID
247. 2015 (L) – Ganga Ram Spine Course: Mini-open TLIF, PLIF & ELIF
248. 2015 (L) – Ganga Ram Spine Course: Slip Reduction of spondylolisthesis
249. 2015 (L) – Ganga Ram Spine Course: PSF and Implant removal for TLBFs
250. 2015 (Live Surgery) – Ganga Ram Spine Course: TLIF (2 cases), Percutaneous Endoscopic Lumbar Discectomy (3 cases)
251. 2015 (L) - 2015 DIVISI Indonesia: Minimally Invasive Spine Surgery in

Thoracolumbar Pathology-Indications, Advantages, Techniques, Pitfall

252. 2015 (L) - 2015 DIVISI Indonesia: Approach in Minimally Invasive Spine Surgery In Thoracolumbar Lesions
253. 2015 (L) - 2015 DIVISI Indonesia: Advanced Percutaneous Instrumentation Techniques in Thoracolumbar Regions
254. 2015 (L) - 2015 Delphi Spine Meeting: HNP with stenosis: L4-5: My mom for a longtime failed conservative treatment, 75 years old
255. 2015 (L) – Joimax Training Course (Taiwan doctor): PELD
256. 2015 (L) – Joimax Training Course (Taiwan doctor): Structural Preservation PEID
257. 2015 (L) – Joimax Training Course (Taiwan doctor): Mini-open TLIF, PLIF & ELIF
258. 2015 (L) – Joimax Training Course (Taiwan doctor): PSF and Implant removal for TLBFs
259. 2015 (P) – KOMISS Annual Meeting: Percutaneous Endoscopic Contralateral Interlaminar Approach for Foraminal to Superior Migrated L5-S1 HNP
260. 2015 (P) – Honam Division of Korean Neurosurgical Spine Society: Minimally invasive extraforaminal lumbar interbody fusion
261. 2015 (L) – Occupational & Environmental Medicine:
262. 2015 (P) – Joint meeting of “The Korean spinal deformity research society” and “The Korean spinal osteoporotic research society”: Is old age a contraindication to pedicle screwing surgery in the thoracolumbar fractures ? Bone Cement Augmented Percutaneous Screwing for Kümmell’s Disease
263. 2015 (L) – Gangnam Severance Spine Hospital Symposium: Endoscopic Spine Surgery in Degenerative Lumbar Spinal Diseases
264. 2015 (L) – Sao Paulo Neurosurgical Society Meeting: PELD
265. 2015 (L) – Sao Paulo Neurosurgical Society Meeting: Mini-open TLIF, PLIF and ELIF
266. 2015 (L) – Sao Paulo Neurosurgical Society Meeting: Slip Reduction of Spondylolisthesis
267. 2015 (L) – ACMISS: PETLD
268. 2015 (L) – ACMISS: PEILD
269. 2015 (L) – ACMISS: MIS Fusion
270. 2015 (L) – ISMINS and NAM Joint Meeting: PELD (Transforaminal Interlaminar)
271. 2015 (L) – ISMINS and NAM Joint Meeting: MIS Fusion (PLIF, TLIF and ELIF)
272. 2015 (L) – ISMINS and NAM Joint Meeting: Percutaneous screwing for TLBFs
273. 2015 (L) – ISMINS and NAM Joint Meeting: Percutaneous Non-invasive procedure for spinal pain

274. 2015 (P) – KNS: Is the Virgin Surgery or Revision Surgery?: Transforaminal Percutaneous Endoscopic Lumbar Discectomy in the Recurred Lumbar Herniated Nucleus Pulposus after Open Lumbar Discectomy
275. 2015 (P) – KOMISS Case Conference: Machinery evolution and severe inferior migrated HNP in transformainal PELD
276. 2015 (P) – KOMISS Case Conference: Pitfall of percutaneous endoscopic formainoplasty in foraminal stenosis

