

* 陳力輝醫師

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PRESENTATIONS:

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2. Prognostic Factors about Life Expectancy in Metastatic Spine Disease. The Comtined Meeting os Spinal & Paediatric Sections of W.P.O.A. & Annual Meeting of the Association of Spinal Surgery, R.O.C. Apr. 27 - 30, 1994.
3. Posterior Decompression and Debulking with or without Posterior Instrumentation for Metastatic Spine Disease. Annual Meeting of the Association of Spinal Surgery, Taipei, May 1995.
4. Clinical Experience of Surgical Management for Pyogenic Spondylitis. Annual Meeting of Orthopedic Association, R.O.C., 1995.
5. Can we distinguish between pyogenic verus tuberculous spondylitis by Magnetic Resonance Imaging? Second Scientific Congress Chinese Speaking orthopaedic Society. Mar. 1996.
6. Surgical result of symptomatic degenerative lumbar scoliosis with Cotrel-Dubousset instrumentation. The Association of Spinal Surgery, R.O.C. Apr. 26, 1997.
7. The Association of Spinal Surgery, ROC, April 25, 1998.
 - (1). Outcomes of Anterior Spinal Arthrodesis for Spondylitis.
 - (2). The Effect of Postoperative Sagittal Alignment of Fused Segment and Lumbarlordosis on the Development of Adjacent Instability.
 - (3). Video-assisted Thoracoscopy in Thoracic Spine Surgery.

8. Lumbar Intervertebral Disc Herniation in Teenagers. W.P.O.A., Fukuoka, Japan, Nov. 1998.
9. Wound Infection in Spinal Surgery, W.P.O.A. Pattaya, Thailand, Oct. 20-23, 1999.
10. Surgical Treatment of Ankylosing Spondylitis with Pseudoarthrosis. The Association of Spinal Surgery, ROC, Taipei. April 21, 2000.
11. The Risk Factors Of Wound Infections In Spinal Surgery. WPOA, 2000.
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13. Intracorporal Bone Graft for Osteoporotic Compression Fracture. – June 16, 2001, Taipei, Taiwanese Osteoporosis Association.
14. Percutaneous Vertebroplasty for Osteoporotic Compression Fracture. Annul Meeting of Taiwan Spinal Society, April 20, 2002.
15. Recurrent Giant Cell Tumor of T Spine with Metastasis to Lungs. Annual Meeting of Taiwan Spine Society, April 19, 2003.
16. Bone Cement Application in Spine Surgery. Annual Meeting of Taiwan Spine Society, April 19, 2003.
17. Pig Tail Drainage for Pyogenic Spondylitis. Annual Meeting of Taiwan Orthopedic Society. Oct. 24, 2003.
18. Experience in Giant-cell Tumor T-L spine. Annual Meeting of Taiwan Spine Society, April 10, 2004.
19. Experience in Giant-cell Tumor T-L spine. Combined Meeting of Taiwan Orthopedic Society. April, 2004.
20. APOA, Kuala Lumpur, Malaysia. Sept. 5-10, 2004

(1). Unipedicular Pecutaneous Vertebroplasty for Spinal Intraosseous Vacuum Phenomenon.

(2). Experience of Giant Cell Tumor of T-L Spine.

21. The Annual Meeting of Spinal Society, Taiwan, April 16, 2005.

(1). Cauda Equina Syndrome Secondary to Lumbar Disc Herniation.

(2). Expansive Laminoplasty with Lateral Mass Screw Fixation for Ossification of the Posterior Longitudinal Ligament.

(3). Transforaminal Epidural Steroid Injection for Candidates of Diskectomy: An Outcome Study with a Minimum Two years Follow-up.

(4). Percutaneous Endoscopic Discectomy for Lumbar Disc Herniation: Surgical Technique, Outcome, and Complications in 40 Consecutive Cases.

(5). The Effect of Cement Leakage into Disk on the Development of Adjacent Vertebral Fracture after Vertebroplasty.

(6). Surgical Treatment for Bacterial Spondylodiscitis in the Patients with Hemodialysis.

(7). Percutaneous Endoscopic Discectomy and Drainage in Infectious Spondylodiscitis.

22. Asis Pacific Spine Congress. Korea. Aug. 25-27,2005.

(1). The effect of cement leakage into disc on the development of adjacent vertebral fracture after vertebroplasty.

(2). Surgical treatment for bacterial spondylodiscitis in the patients with hemodialysis.

23. The Annual Meeting of Orthopaedic Association, ROC. Oct.29-30, 2005.

(1). Development of a Intervertebral Disc Degeneration animal Model.

(2). FGF-2 Maintains the Differentiation Potential of Culture Expanded Nucleus Pulposus Cells in vitro: Implications for Cell based Transplantation Therapy.

- (3). Cauda Equina Syndrome Secondary to Lumbar Disc Herniation.
- (4). Treatment of Children Spinal Tuberculosis in Taiwan – Chang Gung Experience.
- (5). Surgical Treatment for Postoperative Discitis a clinical Outcome study of 13 Patients.
- (6). Lumbar Spinal fusion with pedicle Screw Fixation More Than 65 Years of Age.
- (7). The Piriformis Syndrome – Should be Ruled Out before surgery for Lumbar Radiculopathy.
- (8). Delayed Massive Pleural Effusion after Scoliosis Correction and Thoracoplasty.

24. The 14th Conference of Taiwan Spine Society. Taiwan, April.15, 2006.

- (1). Treatment of Thoracolumbar Spine Fracture in Ankylosing Spondylitis.
- (2). CT-Based Navigation-Assisted Pedicle Screw Insertion in Thoracic and Lumbar Spine Fractures.
- (3). The Use of Cultured Mesenchymal Stem Cells in Biodegradable Alginate Carrier for Posterolateral Lumbar Spine Fusion.

25. Bone Cement in Spinal Surgery. Combined Meeting of Taiwan Orthopedic Society. Jiayi, April. 29, 2006.

26. Advances in Surgical Treatment of Osteoporotic Fracture of Spine. 30th Hospital Anniversary Congress Meeting of Orthopedic Surgery, Chung Shan General Hospital
May 12, 2006

27. The Annual Meeting of Orthopaedic Association, ROC. Oct. 28-29, 2006.

- (1). Percutaneous Vertebroplasty Using Calcium Sulfate.
- (2). Polyetheretherketone (PEEK) Cage in Anterior Cervical Interbody Fusion: One Year Clinical Experience.

- (3). Comparative Results Between Percutaneous Endoscopic Discectomy and CT-guided Biopsy in the Diagnosis and Treatment of Infectious Lumbar Spondylitis.
- (4). Posterior Lumbar Interbody Fusion with Cages in Degenerative Lumbar Scoliosis.
- (5). Revision Surgery for Failure of Vertebroplasty.
- (6). Preliminary Clinical Results of Artificial Disc in Treating Degenerative Disc Disease of Lumbar Spine.
- (7). Anti-Adhesion Properties of Hyaluronate in a Rabbit Laminectomy Model.

- 28. Percutaneous Vertebroplasty Using Calcium Sulfate. COA. China, Nov. 12-15, 2006.
- 29. Chang-Gung Experience of Vertebroplasty. 台灣脊椎微創醫學會季會. 義大醫院, Kaohsiung, Taiwan. Jan. 13, 2007.
- 30. Advanced Treatment In Osteoporotic Compression Fracture. 2007年2月份中區骨科月會. 署立台中醫院12F大禮堂, Taiwan. Feb. 3, 2007.
- 31. AO Spine Master Course 2007, National Taiwan University Hospital, ROC. Oct. 14, 2007.
 - (1) Reconstruction of Thoracolumbar Kyphosis in Osteoporotic Fractures.
 - (2) Ankylosing Spondylitis with Thoracolumbar Fracture.
- 32. Vertebroplasty for metastatic spine disease, Chang Gung University, ROC. Oct. 29, 2007.
- 33. The Annual Meeting of Orthopaedic Association, ROC. Oct. 27-28, 2007.
 - (1) Clinical Outcome of Percutaneous Vertebroplasty in Metastatic Spinal Tumors.
 - (2) The Long-Term Results of Neurological-Deficient Thoracolumbar Burst Fractures Treated with the Kaneda Device.
 - (3) Proximal Kyphotic Deformity Following Long Segmental Lumbar Instrumentation and Fusion for Degenerative Lumbar Scoliosis: Analyze the Prevalence, the Risk Factors and the Clinical Outcome.
 - (4) Adjacent Vertebral Fracture Resulted in Progressive Kyphosis Following Spinal Posterior Instrumentation.
 - (5) Results of Microendoscopic Discectomy (MED) Performed in the Early Learning Period: Followed More Than Three Years.

(6)Percutaneous Endoscopic Debridement and Drainage in A Huge Prevertebral Abscess of Lower Lumbar Spine: A Case Report.

(7)Hepatocellular Carcinoma with Sj spinal Metastasis- Clinical Experience of Surgical Treatment.

34. The Annual Spring Meeting of Orthopaedic Association, Taichung, ROC. April. 19, 2008.

(1)Highly Suspected Conversion Paralysis After Surgery for Lumbar Disc Herniation-A case report.

(2)Efficacy of Antibiotic-loaded Bone Cement Beads in the Treatment of Wound Infection after Spinal Surgery.

35. The 16th Conference of Taiwan Spine Society. Kaohsiung, Taiwan, April.26,2008.

(1)The effect of ultrasound on the healing of laminectomy bone chips bone graft in spinal posterolateral fusion--- A histological and biomechanical study in rabbits.

(2)Matrix and Telomerase Activity in Mesenchymal Stem Cell and Nucleus Pulposus Cell Coculture.

(3)Dose hyperbaric oxygen therapy enhance the osteogenic potency of mesenchymal stem cells for posterolateral lumbar fusion *in vivo* ?

(4)The causes of repeat surgery for treatment of pyogenic spondylitis.

36. Pitfall of vertebroplasty. Advanced Technique in Spinal Surgery and Workshop. 台北榮總. Sep. 20~21, 2008.

37. Vertebroplasty Lin-Co CGMH Experience. 廈門長庚. Nov. , 2008.

38. The Annual Meeting of Orthopaedic Association, ROC. Oct. 25-26, 2008.

(1)Biomechanical Comparison of Pullout Strength for Cannulated Pedicle Screws in Severely Osteoporotic Bone: The Role of Radial Hole and Pilot-Hole Tapping.

(2)In-situ posterolateral fusion and fixation without decompression for treating adult spondylytic spondylolisthesis.

(3)Percutaneous endoscopic debridement and drainage in complicate pyogenic lumbar spondylodiscitis.

39. The 17th Conference of Taiwan Spine Society. Kaohsiung, Taiwan, Mar.14,2009.
- (1) Recollapse in cemented vertebrae after percutaneous vertebroplasty.
 - (2) Surgical Treatment of Traumatic Lumbar-pelvic instability.
 - (3) Infectious spondylitis in patients with or without chronic hemodialysis therapy.
 - (4) Extending Criteria of Percutaneous Endoscopic Debridement and Drainage for Infectious Spondylitis.
 - (5) Comparison of epidural morphine-soaked hemostatic sponge with patient controlled morphine pump in postoperative pain control after posterior lumbar spine decompressive surgery.
 - (6) Case report of the early sequential complications following revision spinal surgery.
40. 骨質疏鬆症引起脊椎骨折的微創手術治療. 台北縣藥師公會繼續教育. Taipei, Taiwan, Jun. 14, 2009.
41. 婦女之下背疼痛治療. 台北地區婦女保健暨EA年會座談會. Taipei, Taiwan, Oct. 17, 2009.
42. The Annual Meeting of Orthopaedic Association, ROC. Oct. 24-25, 2009.
- (1) In vitro study of shear stress effect on extracellular matrix expression in human intervertebral disc cell.
 - (2) Recollapse in cemented vertebrae after percutaneous vertebroplasty.
 - (3) Atraumatic Sacral Fracture After Long-level Instrumented Lumbosacral Fusion: A Retrospective Review of 149 cases.
 - (4) The Causes of Unexpected Repeat Spinal Surgery in a Week.
 - (5) Neglected Spinal Metastasis with Incorrect Surgical Treatment: A Case Report
43. The 18th Conference of Taiwan Spine Society. Taipei, Taiwan, Mar.27,2010.
- (1) Postoperative Anterior Spondylodiscitis After Posterior Pedicle Screw Instrumentation.
 - (2) Surgical treatment of infectious spondylitis in patients undergoing Hemodialysis therapy.
 - (3) Preliminary Clinical Experience with the Dynesys Stabilization System for the Spine..
 - (4) Neglected Spinal Metastasis with Inappropriate Surgical Management: 3 Case

Reports.

44. 椎體成形術-長庚經驗. 河北省骨科兩岸骨科學術交流會, 河北省石家莊. June. 3rd, 2010.
45. Surgical Strategy for Metastatic Spine Disease. 2010 AO Spine Instruction Course 桃園台灣 Sep. 5th 2010.
46. 骨質疏鬆症.台灣經營管理研究院,台北社教館.Sep.15,2010.
47. 如何擁有健康的骨頭(脊椎). 2010台灣世界骨鬆日病友講座：遠離骨質疏鬆症. 林口長庚, Oct. 16,2010.
48. Spine Surgery in Taiwan. Oct.21,2010. Wooridul Hospital, Korea.
- 49.脊椎生物力學之發展及新趨勢. 陽明大學博碩生研究班. Oct. 28th, 2010.
50. Epidural Hematoma after Spine Surgery. 2010 APOA和骨科醫學會年會, 台北台灣, Nov. 6th, 2010.
51. The Combined Conference of 16th Triennial Congress of Asia Pacific Orthopaedic Association and 59th Annual Meeting of Taiwan Orthopaedic Association. Taipei, Taiwan, Nov.4-7,2010.
 - (1) Periostin gene expression is upregulated in degenerate human disc cells.
 - (2) One posterior incision with circumferential fusion for lumbosacral adjacent instability after floating lumbar fusion.
 - (3) Management of neurologic deficit immediately after adult lumbar spinal surgery.
 - (4) Percutaneous endoscopic debridement and drainage in immunocompromised patients with complicated infectious spondylitis.
 - (5) Posterior lumbar interbody fusion with posterolateral fusion helps in correction of lumbar kyphosis compared to posterolateral fusion alone.
 - (6) Cement leakage during vertebroplasty potentially cause thermal damage.
52. The 19th Conference of Taiwan Spine Society. Linkou, Taiwan, Mar.19,2011.
 - (1) Combined anterior lumbar interbody fusion and instrumented posterolateral fusion for degenerative lumbar scoliosis with spinal stenosis.
 - (2) Instrumented lumbar surgery in patients with liver cirrhosis.
 - (3) The results of percutaneous lumbar endoscopic discectomy with or

without the assistance of laser.

(4) Solutions to thermal injury in vertebroplasty.

(5) Management of Neurologic Deficit After Lumbar spinal surgery.

53. Vertebroplasty-長庚經驗. 中國醫藥學院附設醫院全院演講, May. 7th, 2011. 台中, 台灣.

54. Repeat Vertebroplasty. 兩岸四地華裔骨科論壇, Aug. 26th, 2011. 大陸福建.

55 .Bone cement application in spine surgery. 潭子慈濟醫院全院演講, Dec. 29, 2011. 台中,台灣.

56. Clinical results of pillow reduction and vertebroplasty for osteoporotic compression fracture. 中華民國骨科醫學會春季會. April 21th, 2012. 新竹, 台灣.

57. Hardware implantation for degenerative spine. 台中光田百週年院慶演講討論主持人. July 21th, 2012. 台中.

58. Surgical treatment of spine metastasis. 中華民國骨科醫學會年會主持人及專題演講. Oct. 27th, 2012. 台北.

59. The 20th Conference of Taiwan Spine Society. Taipei, Taiwan, Mar.17,2012.

(1) Impact of Lumbar Instrumented Circumferential Fusion on the Development of Adjacent Vertebral Compression Fracture.

(2) Sacral Fracture after Lumbosacral Fixation: a Practical Approach for Differential Diagnosis and Treatment.

(3) Osteoporotic Vertebral Fracture With kyphotic Deformity and Neurologic deficit – Treated With Pedicle Subtraction Osteotomy and Posterior Pedicle Screw Instrumentation.

(4) The Use of Fluorescence-Labeled MSCs in PLGA/Hydroxyapatite/Collagen Hybrid Graft as a Bone Substitute for Posterolateral Spinal Fusion.

(5) Biomechanical comparison of facet spacer implantation and facet screw fixation.

60. The Annual Spring Meeting of Orthopaedic Association, Hsinchu, ROC. April. 21, 2012.

(1) Development of novel composite bone graft with suitable mechanical strength and long durability.

(2) Biomechanical study of facet implant.

(3) Surgical Outcomes of Degenerative Lumbar Spondylolisthesis with

Anterior

Vacuum Disc. Can the Intervertebral Cage Overcome Intradiscal Vacuum Phenomenon and Enhance Posterolateral fusion?

(4) Percutaneous Endoscopic Debridement and Irrigation for Treating of Pyogenic

Spondylodiskitis in Patients with Sepsis.

(5) The radiographic results of pillow reduction prior to vertebroplasty on patients

with vertebral compression fracture.

(6) Hyperbaric oxygen suppressed Erk1/2 and p38 mapk mediate nitric oxide-mediated apoptosis on human degenerated intervertebral disc cells.

61. The Annual Meeting of Orthopaedic Association, ROC. Oct. 27-28, 2012.

(1) The Long-Term Results of Neurlogical-Deficited Thoracolumbar Burst Fractures Treated with Anterior Locking Plate System (Alps).

(2) Hyperglycemia, Advanced Glycation End-Products in Diabetes Nucleus Pulusos Degeneration.

(3) Validation of Polyanhydride and Grafted Hydroxyapatite Composites as Bone Substitutes.

(4) A Retrospective Study of Hyperbaric Oxygen Therapy in Postoperative Spine Infection.

(5) The Intervertebral Cage Did Help for the Posterolateral Fusion in Lumbosacral Spondylolisthesis with Intradiscal Vacuum Phenomenon.

62. The Annual Spring Meeting of Orthopaedic Association, April. 20, 2013.

(1) Treatment of Floating Elbow Injury.

(2) Clinical Significance of Cement Leakage after Percutaneous Vertebroplasty.

63. The Annual Meeting of Orthopaedic Association, ROC. Oct. 26-27, 2013.

(1) An easier and less expensive method for short segment MIS-TLIF ~ A short term result.

(2) Clinical significance of cement leakage after percutaneous vertebroplasty.

(3) The effects of two additional augmenting screws with posterior short-segment instrumentation without fusion for unstable thoracolumbar burst fracture – comparisons with transpedicular grafting techniques.

(4) Advanced Glycation End Products in Degenerative Nucleus Pulusos with Diabetes.

(5) Paper-based Tuberculosis Diagnostic Devices with Colorimetric Gold Nanoparticles.

(6) Is Early Pyogenic Spondylodiskitis Surgical Disease or Medical Disease?

書籍編寫

1. 參與整理編輯"骨科學復習"一書，以為骨科醫學會專科醫師考題之重要題庫。
2. 和台大、榮總相關專家一起編輯"台灣全方位疼痛處理指引"一書(Taiwan Guidance for Total Pain Management)，由亞洲醫學有限公司在2010年10月出版。