

**\*牛自健醫師**

所有發表會議論文及期刊論文

**PRESENTATIONS:**

- Post-traumatic spinal epidural hematoma simulating an acute lumbar disc herniation. The 31th Annual Meeting of Orthop Assoc ROC, 1990.
2. Localized femoral endosteal bone lysis in cementless total hip. The 32th Annual Meeting of Orthop Assoc ROC, 1991.
  3. Lumbar disc herniation with end-plate fracture of the vertebral body. The 32th Annual Meeting of Orthop Assoc ROC, 1991.
  4. Early prediction of outcome in avascular necrosis of femoral head. The 32th Annual Meeting of Orthop Assoc ROC, 1992.
  5. Clinical experiences of porous-coated anatomic (PCA) total hip arthroplasty. The 33th Annual Meeting of Orthop Assoc ROC, 1992.
  6. Survivorship Analysis of Zielke Transpedicle Instrumentation in The Treatment of Spondylolisthesis. Annual Meeting of Assoc. of Spinal Surgery, 1993.
  7. Back Pain after Thoracolumbar Fracture -- Treated with Long Instrumentation and Short Fusion. The 34th Annual Meeting of Orthop Assoc ROC, 1993.
  8. The Results of Operation on the Lumbar Spine in Aged Patients. The 35th Annual Meeting of Orthop Assoc ROC, 1994.
  9. Reduction Fixation Spinal in Spondylolisthesis. The Combined Meeting of Spinal & Paediatric Sections of W.P.O.A. & Annual Meeting of Association of Spinal Surgery, ROC, 1994.
  10. Plasmacytoma of the Spine. Annual Meeting of Assoc. of Spine Surgery, 1995.

11. Clinical Experience of Surgical Management for pyogenic Spondylitis. The 36th Annual Meeting of Orthop. Assoc. R.O.C. Oct. 1995.
12. Outcomes of Anterior Spinal Arthrodesis for Spondylitis. The Annual Meeting of Assoc. of Spine Surgery, R.O.C., Apr. 1998.
13. Early Clinical Experiences Using Autograft and Allograft for Anterior Cervical Interbody Fusion. The 39<sup>th</sup> Annual Meeting of Orthop. Assoc. R.O.C., Oct. 1998.
14. Destructive Spondyloarthropathy in Long-Term Hemodialysis Patients Mimicking Spondylitis – A Case Report. The 39<sup>th</sup> Annual Meeting of Orthop. Assoc. R.O.C., Oct. 1998.
15. Early Clinical Experiences of Using Orion ACP in Long Segment Anterior Cervical Fusion. The 3<sup>rd</sup> Annual Meeting of Assoc. of Spine Surgery, R.O.C., Apr. 1999.
16. The Risk Factors of Adjacent Instability after Fusion in Lumbosacral Spine – A Biomechanical Study. The 40th Annual Meeting of Orthop Assoc ROC, Oct. 1999.
17. Anterior Cervical Corpectomy and Strut Graft Fusion Using A New Method – A Clinical report. The 4<sup>th</sup> Combined Meeting of Spinal and Paediatric Sections of WPOA. 1999
18. Outcomes of Halifax Clamps with Iliac Bone Graft for Posterior Stabilization of C1-2 Instability. The 4<sup>th</sup> Annual Meeting of Association of Spine Surgery, R.O.C., Apr. 2000.
19. Clinical Experience Using Locking and Unlocking Anterior Cervical Plate System. The 41th Annual Meeting of Orthopaedic Association, R.O.C., Oct. 2000.
20. Single Oblique Interbody Cage with Posterior instrumentation in Treating Recurrent Lumbar Disc Herniation – A Clinical Experience. The 5<sup>th</sup> Annual Meeting of Association of Spinal Surgery, R.O.C., Apr. 2001.

21. Degenerative disease of lumbar spine. International Symposium on Bone and Joint in Aging Population The 2001 Annual Meeting of the Taiwanese Osteoporosis Association, Taipei, R.O.C., June. 2001.
22. Rectangular Cage Used in Anterior Cervical Interbody Fusion – A Preliminary Clinical Results. The 42<sup>nd</sup> Annual Meeting of Orthopaedic Association, R.O.C., Oct. 2001.
23. Anterior Cervical Surgery for Multi-level Cervical Myelopathy. The 6<sup>th</sup> Annual Meeting of Association of Spinal Surgery, R.O.C., Apr. 2002.
24. Clinical Comparison of Fusion Materials Used in Anterior Cervical Interbody Fusion. The 43<sup>rd</sup> Annual Meeting of Taiwan Orthopaedic Association, Oct. 2002.
25. Clinical Result of Lumbar HVD Treated by Percutaneous Endoscopic Discectomy. The Annual Meeting of Association of Spinal Surgery, R.O.C., Apr. 2003.
26. The Current Treatment and Prevention for Osteoporosis. Taoyuan Hospital, The Dept. of Health, The Executive Yuan. Aug. 21, 2003.
27. The Current Treatment for Cervical Degeneration Disease. Jin-Ai Hospital in Shuh-Lin, Taipei.
28. Burst fracture or compression fracture treated with RF III. The Annual Meeting of Taiwan Orthopaedic Association, Oct. 2003.
29. Anterior Cervical Surgery for Multi-level Cervical Myelopathy, Dec. 26, 2002.
30. Primitive Clinical Result of Lumbar Disc Herniation Treated by Percutaneous Endoscopic Discectomy. 3<sup>rd</sup> Annual Meeting of PASMIS, Taipei, Taiwan, Nov. 2003.
31. Interaction of Mesenchymal Stem Cells and Nucleus Pulposus Cells Cocultured in Alginate Beads: Regulation of Extracellular Matrix Synthesis and Telomerase Activity. The Annual Meeting of Association of Spinal Surgery, Taiwan, Apr. 2004.

32. Single Cylindrical Threaded Cage Used in Fusion for Recurrent Lumbar Disc Herniation. 4<sup>th</sup> Annual Meeting of PASMIS, Jeju, Korea, Aug. 2004.
33. Anterior Cervical Interbody Fusion – Comparison of the Effectiveness of Autograft, Allograft and Cage. 14<sup>th</sup> Triennial Congress of APOA 2004, Sep. 2004.
34. Moderator of PELD, Symposium of International Spinal Percutaneous Endoscopic Laser Surgery, Show-Chwan Memorial Hospital, Oct. 22, 2004.
35. New Insights into the Therapeutic Application of Bisphosphonates. MSD Conference, Howard International House, Taipei, Oct. 22, 2004.
36. Osteoporosis in Men: An Emerging Clinical Problem. San-Paul Hospital, Taoyuan, Nov. 19, 2004.
37. Percutaneous Endoscopic Lumbar Discectomy – Chang Gung's Experience. The 13<sup>th</sup> Annual Meeting of Association of Spinal Surgery, R.O.C., Apr. 2005.
38. Interaction of Mesenchymal Stem Cells and Nucleus Pulposus Cells Cocultured in Alginate Beads : Regula. 5<sup>rd</sup> Annual Meeting of PASMIS, Tokyo, Japan, Aug. 2005.
39. Development of A Intervertebral Disc Degeneration Animal Model. The 49<sup>th</sup> Annual Meeting of Taiwan Orthopaedic Association, Oct. 2005.
40. The Piriformis Syndrome- Should Be Ruled out before Surgery for Lumbar Radiculopathy. The 49<sup>th</sup> Annual Meeting of Taiwan Orthopaedic Association, Oct. 2005.
41. Development of A Intervertebral Disc Degeneration Animal Model. The 6<sup>th</sup> Combined Congress of Spine & Pediatric Orthopedic Sections, APOA, Nov. 2005.
42. Moderator of The 6<sup>th</sup> Combined Congress of Spine & Pediatric Orthopedic Sections, APOA, Nov. 2005.

43. Drop Shoulder Caused by Cervical Radiculopathy-Clinical Experiences and Differential Diagnosis from shoulder Lesions. The 14<sup>th</sup> Annual Meeting of Taiwan Spine Society, Apr. 2006.
44. Percutaneous Endoscopic Lumbar Discectomy(PELD)- Indications and Technical Pitfalls. The 14<sup>th</sup> Annual Meeting of Taiwan Spine Society. Apr. 2006.
45. Cage Applications in Spine Surgery. Combined Meeting of Taiwan Orthopedic Society. April. 29, 2006.
46. Cage Applications in Spine Surgery. 30<sup>th</sup> Hospital Anniversary Congress Meeting of Orthopedic Surgery, Chung Shan General Hospital, May 12, 2006
47. The Proper Indications of Percutaneous Endoscopic Lumbar Discectomy (PELD). 6<sup>rd</sup> Annual Meeting of PSMISS, Kenting, Taiwan, Aug. 2006.
48. The Proper Indications of Percutaneous Endoscopic Lumbar Discectomy (PELD). Minimally Invasive Orthopedic Surgery Symposium(長庚醫院30週年院慶), Likou Chang Gung Memorial Hospital, Nov. 25, 2006.
49. Interaction of Mesenchymal Stem Cells and Nucleus Pulposus Cells Co-cultured in Alginate: Regulation of Extracellular Matrix Metabolism and Telomerase Activity by Cell Fusion. SICOT 2006 in Argentina, Poster.
50. Effects of Hyperbaric oxygen on the expression of interleukin-1 $\beta$ , matrix metalloproteinases, and tissue inhibitors of matrix metalloproteinases in human degenerated intervertebral disc cells. ICRS2007 in Poland, Poster
51. The piriformis syndrome-should be ruled out before surgery for lumbar radiculopathy. 52<sup>nd</sup> Congress of Taiwan Orthopaedic Association. Apr.28, 2007.
52. Experiences of ACDF for Single-Level Cervical Spondylosis. Current Cervical Arthroplasty Surgery, Chang Gung Memorial Hospital, Oct.26, 2007.
53. Hepatocellular Carcinoma with Spinal Metastasis- Clinical Experience of Surgical Treatment. The Annual Meeting of Orthopaedic Association, ROC.

Oct. 27-28, 2007.

54. 頸椎間盤退化性病變的手術發展趨勢. 桃園區外科月會, 中壢天晟醫院, Dec.21,2007.
55. Matrix and Telomerase Activity in Mesenchymal Stem Cell and Nucleus Pulposus Cell Coculture. The 16<sup>th</sup> Conference of Taiwan Spine Society. Kaohsiung, Taiwan, April.26, 2008.
56. Efficacy of Antibiotic-loaded Bone Cement Beads in the Treatment of Wound Infection after Spinal Surgery. The Annual Spring Meeting of Taiwan Orthopaedic Association. Taichung, April. 19,2008.
57. Surgical treatment for cervical disc herniation. AOspine Principle Course. Aug. 30-31, 2008. National Cheng Kung University H., Tainan 成大.
58. Treating C1-2 subluxation with transarticular screw and posterior atlantoaxial fusion –a 5 years experience. The Annual Meeting of Orthopaedic Association, ROC. Oct. 25-26, 2008.
59. Basic Surgical Technique of Anterior Cervical Decompression and Fusion. The 17<sup>th</sup> Conference of Taiwan Spine Society. Kaohsiung, Taiwan, Mar.14, 2009.
60. Comparison of epidural morphine-soaked hemostatic sponge with patient controlled morphine pump in postoperative pain control after posterior lumbar spine decompressive surgery. The Annual Spring Meeting of Taiwan Orthopaedic Association. Taichung, April. 25, 2009.
61. Preliminary Clinical Experience with the Dynesys Stabilization System for the Spine. The 18<sup>th</sup> Conference of Taiwan Spine Society. Taipei, Taiwan, Mar.27,2010.
62. Adult Spine Disorders. 99年度第十三屆住院醫師聯合教育研習會. Aug. 14, 2010.
63. Glucocorticoid-Induced Osteoporosis and Treatment-Coordination to Pulmonary Physicians. Chang Gung Memorial Hospital, Department of Chest,

Dec. 10, 2010.

64. AOspine Principle Course. Sep.4th -5th, 2010. Chang Gung Medical Foundation Taoyuan Branch.
  - (1) Anterior Surgery in Degenerative Cervical Spine.
  - (2) Evaluation of Cervical Myelopathy.
  
65. The Combined Conference of 16<sup>th</sup> Triennial Congress of Asia Pacific Orthopaedic Association and 59<sup>th</sup> Annual Meeting of Taiwan Orthopaedic Association. Taipei, Taiwan, Nov.4-7, 2010.
  - (1) Comparison of instrumented posterolateral fusion result of one-segment and low-grade lumbosacral spondylolisthesis with/without segmental kyphosis.
  - (2) Posterior lumbar Interbody fusion with posterolateral fusion helps in correction of lumbar kyphosis compared to posterolateral fusion alone.
  
66. The 19<sup>th</sup> Conference of Taiwan Spine Society. Taipei, Taiwan, Mar.19,2011.
  - (1) Beneficial effects of hyperbaric oxygen on human degenerated intervertebral disc cells via suppression of IL-1  $\beta$  and p38 MAPK signal.
  - (2) Toward the identification of bone formation factors in bone marrow aspirate and peripheral blood for spinal fusion by flow cytometry and TOF mass spectrometry.
  
67. Table Instructor of " 2011 Cadaver Endo C-Spine Workshop" IRCAD Taiwan, Apr. 23-24, 2011.
  
68. Comparing multiple ACDF with corpectomy and strut graft in treating multiple-segment stenosis of cervical spine. AOspine Advances Seminar. Jun. 18, 2011. 台北遠企.
  
69. Hyperbaric oxygen suppressed ERK1/2 and P38 MARK mediate nitric oxide-induced apoptosis on human degenerated intervertebral disc cells. 3<sup>rd</sup> Joint Meeting of the European Calcified Tissue Society & the International Bone and Mineral Society. May. 7-11, 2011. (poster presentation)
  
70. New technologies and implants in spine surgery. 100年度脊椎醫學研習營. Nov.12, 2011.

71. Hyperbaric oxygen suppressed Erk1/2 and p38 mapk mediate nitric oxide-mediated apoptosis on human degenerated mtervertebral disc cells. Poster. 62<sup>nd</sup> Congress of Taiwan Orthopaedic Association. Apr.21,2012.
72. Proper indications of cage in low-grade lumbosacral spondylolisthosis. AOsphine Advances Seminar in Lumbar Degenerative Disc Disease. July. 28, 2012. Kaohsiung, Taiwan.
73. Surgical treatment for degenerative cervical discase. 101年度第十五屆住院醫師聯合教育研習會. Aug. 4, 2012.台北榮總.
74. Treatment of multi-level cervical stenosis-multi-level anterior cervical discectomy and fusion or anterior cervical corpectomy and fusion. The Philippine Spine Society and The Philippine Orthopaedic Association. Aug. 24-25, 2012. Chong Hua Hospital, Philippines.
75. Treatment of ASD. The 21th Conference of Taiwan Spine Society. 花蓮, Taiwan, Mar.23,2013.
76. Hyperbaric oxygen treatment suppresses MAPK signaling and mitochondrial apoptotic pathway in degenerated human intervertebral disc cells. Poster, The 21th Conference of Taiwan Spine Society. 花蓮, Taiwan, Mar.23,2013.
77. ACDF with PEEK or porous tantalum cages: a clinical comparison. Taiwan Current Concept of Spine(TCCS). 日月潭, Taiwan, Mar. 30,2013.
78. Multilevel anterior cervical discectomy with fusion. 中華民國骨科醫學會春季會. 台東, Taiwan, Apr.20,2013.
79. Treatment of multilevel cervical stenosis: multilevel anterior cervical discectomy and fusion or anterior cervical corpectomy and fusion ? 102年南區骨科地方月會. 高雄長庚, Taiwan, May.25,2013.
80. To evaulate the possibility of Grafton mixed with local laminectomized bone chips replacing the autogeneic iliac cancellous bone graft in posterolateral fusion in lumbosacral spine. The Annual Meeting of Orthopaedic Association, ROC. Oct. 26-27, 2013. 台北榮總.



## **PUBLICATIONS:**

1. **Niu, C.C.**, Chen, J.Y.\* , Chen, W.J., and Huang, T.J.: Post-Traumatic Spinal Epidural Hematoma Simulating an Acute Lumbar Disc Herniation. *J Orthop Surg ROC* 9:169-173, 1992.
2. **Niu, C.C.**, Shih, C.H. \*: Early Prediction of Outcome in Avascular Necrosis of Femoral Head. *J Orthop Surg ROC* 10:79-87, 1993.
3. Shih, C.H. \* , **Niu, C.C.**, Lee, Z.L., Yang, W.E., and Wu, C.C.: Femoral Osteolysis in Cementless Total Hip Arthroplasty. *J of Orthop Surg, R.O.C.* 10:415-422, 1993.
4. Chen, W.J. \* , **Niu, C.C.**, Chen, L.H., Shih, C.H.: Spondylolisthesis Treated with DKS Instrumentation. *J Spin Surg ROC* 1: 1~9, 1995.
5. Chen, W.J. \* , **Niu C.C.**, Chen, L.H., Shih, C.H.: Back pain after thoracolumbar fracture treated with long instrumentation and short fusion. *J of Spinal Disorders* , Vol 8, No. 6, pp 474-478, 1995. **(SCI)**
6. Chen, W.J. \* , Wu, C.C., Chen, L.H., **Niu, C.C.**, Shih, C.H.: Distal release for deltoid contracture in adults. *Journal of Orthopedic Surgery* , P.31-34, 1995.
7. Lee, P.C., Chen, W.J. \* , Chen, L.H., **Niu, C.C.** and Shih, C.H.: Metastatic Spine Disease Presenting as Lumbar Spinal Stenosis -- A Retrospective Study of 21 Surgical Cases. *Journal of Orthopaedic Surgery, ROC*, Vol. 13: 180-185, 1996.
8. Yen, C.Y., Chen, W.J., Chen, L.H., **Niu, C.C.** and Shih, C.H. \*: Operation for Recurrent Herniated Intervertebral Disc of Lumbar Spine -- Twenty-five Cases Followed 2 Years ~ 9 Years. *Journal of Orthopaedic Surgery, ROC*, Vol. 13: 175-179, 1996.
9. Chen, L.H. \* , Chen, W.J., **Niu, C.C.**, and Shih C.H.: Metastatic Spine Disease: Surgical Treatment by Anterior Corpectomy and Ziekell's VDS Fixation, *Chang Gung Med J*, Vol. 19, No. 1, pp. 330-4, 1996.

10. **Niu, C.C.** \*, Chen, W.J., Chen, L.H., and Shih, C.H.: Reduction Fixation Spinal System in Spondylolisthesis. *The American Journal of Orthopedics*. Vol. XXV, No. 6, p.418-424, June 1996.
11. Chen, W.J. \*, **Niu, C.C.**, Chen, L.H., Shih, C.H.: Unexpected Root Pain after Transpedicular Screw Instrumentation for Spondylolisthesis. *J of Orthopedic Surgery, R.O.C.*, Vol. 13, No. 4, pp. 284-288, Dec. 1996.
12. Chen, L.H. \*, Chen, W.J., Tang, C.F., Ng, K.K., **Niu, C.C.**, Shih, C.H.: Can We Distinguish between Pyogenic and Tuberculous Spondylitis by Magnetic Resonance Imaging ? *J of Orthopedic Surgery, R.O.C.*, Vol.13, No. 4, pp.296-300, Dec. , 1996.
13. Chen, L.H. \*, Chen, W.J., **Niu, C.C.**, Wang, P.J., Chou, M.L. and Shih, C.H.: Pott's Paraplegia in A 19-month-old Child -- One Case Report. *J Spin Surg, R.O.C.*, Vol. 1: 33-47, 1996.
14. Yuan, L.J. \* , Chen, W.J., Chen, L.H., **Niu, C.C.**, and Shih, C.H.: Post-laminectomy Epidural Hematoma with Paraplegia - 3 Cases Report. *J Spin Surg, R.O.C.*, Vol. 1: 38-43, 1996.
15. Chen, W.J. \*, **Niu, C.C.**, Chen, L.H., Shih, C.H.: Survivorship Analysis of DKS Instrumentation in the Treatment of Spondylolisthesis. *Clinical Orthop and Related Research*, Vol. 339: 113-120, 1997. **(SCI)**
16. Chen, C.H. \*, Lai, P.L., **Niu, C.C.**, Chen, W.J., Shih, C.H.: Anterior Dislocation of the Shoulder and Ipsilateral Humeral Shaft Fracture: Case Reports and Literature Review. *J of Orthop Surg. R.O.C.*, Vol. 14: 232-236, Aug. 1997.
17. Wang, P.J., Chen, W.J. \*, Chen, L.H. and **Niu, C.C.**: Spinal Fusion and Pedicle Screw Instrumentation in the Treatment of Spondylolisthesis over the Age of 60. *Chang Gung Med J*, 21(4): 436-441, 1998.
18. Chen, C.H. \*, Lai, P.L., **Niu, C.C.**, Chen, W.J., Shih, C.H.: Simultaneous Anterior Dislocation of the Shoulder and Ipsilateral Humeral Shaft Fracture: Two Cases Reports. *Int Orthop* 22(1): 65-67, 1998. **(SCI)**

19. Hsieh, P.H., Chen, W.J. \*, Chen, L.H., and **Niu, C.C.**: An Unusual Complication of Anterior Spinal Instrumentation: Hemothorax Contralateral to the Side of Incision - a case report. *The J of Bone and Joint Surg [Am]*, Vol. 81, No. 7: 998-1001, 1999. **(SCI)**
20. Chuang, T.Y., Chen, W.J. \*, Chen, L.H., **Niu, C.C.**, and Shih, C.H.: Acute Postoperative Aggravation of Radiculopathy as a Complication of Free Fat Transplantation in Lumbar Disc Surgery: Case Report. *The Chang Gung Med J*, Vol.22(3):498-502, Sept. 1999.
21. Chen, C.H. \*, **Niu, C.C.**, Yang, W.E., Chen, W.J., Shih, C.H.: Spontaneous Bilateral Patellar Tendon Rupture in Primary Hyperparathyroidism. *Orthopedics Vol.22, No.12*: 1177-1179, 1999. **(SCI)**
22. **Niu, C.C.** \*, Chen, C.H., Chen, L.H., Chen, W.J. and Shih, C.H.: Lateral Retroperitoneal Approach Using the BAK Interbody Fusion Cage – early Surgical experience. *J Orthop Surg R.O.C.*, Vol. 16:207-218, 1999.
23. **Niu, C.C.** \* , Chen, W.J., Chen, L.H. and Shih, C.H.: Destructive Spondyloarthropathy Mimicking Spondylitis in Long-Term Hemodialysis Patients – a case report. *Arch Orthop and Traum Surg*, Vol.120:594-597, 2000. **(SCI)**
24. Chen, L.H. \*, Chen, W.J., **Niu, C.C.** and Shih, C.H.: Anterior Reconstructive Spinal Surgery with Zielke Instrumentation for Metastatic Malignancies of the Spine. *Archives of Orthop and Trauma Surg*, Vol.120: 27-31, 2000. **(SCI)**
25. Chen, W.J. \*, Lai, P.L., **Niu, C.C.**, Chen, L.H., Fu, T.S. and Wong, C.B.: Surgical Treatment of Adjacent Instability after Lumbar Spine Fusion. *Spine*, Vol. 26, No.22, pp.E519-E524, 2001. **(SCI)**
26. Chang, Y.H., **Niu, C.C.** \*, Chen, L.H. and Chen, W.J.: Acute Paraplegia Due to Thoracic Extramedullary Hematopoiesis in Chronic Myeloproliferative Disorder – An Unusual Presentation. *Acta Orthopædica Belgica*, Vol. 68, P.187-191, 2002. **(Corresponding author)**
27. Wong, C.B., Chen, W.J. \*, Chen, L.H., **Niu, C.C.**, and Lai, P.L.: Clinical Outcomes of Revision lumbar Spinal Surgery: 124 Patients with a Minimum of Two

Years of Follow-up. *Chang Gung Med J*, Vol. 25, No. 3, pp.175-182, Mar. 2002.

28. **Niu, C.C.** \*, Hai Y., Bruce E. Fredrickson, Yuan, H.A.: Anterior Cervical Corpectomy and Strut Graft Fusion Using a Different Method. *The Spine J*, Vol. 2:179-187, 2002.
29. Chen, W.J. \*, Wu, C.C., Jung, C.H., Chen, L.H., **Niu, C.C.** and Lai, P.L.: Combined Anterior and Posterior Surgeries in the Treatment of Spinal Tuberculous Spondylitis. *Clin Orthop Relat R*, Vol. 398:50-59, 2002. **(SCI)**
30. Chen, C.J. \*, Hsu, H.L., **Niu, C.C.**, Chen, T.Y., Chen, M.C., Tseng, Y.C., Wong, Y.C. and Wang, L.J.: Cervical Degenerative Disease at Flexion-Extension MR Imaging: Prediction Criteria. *Radiology*, Vol.227, No. 1:137-142, 2003. **(SCI)**
31. Tsai, T.T., Chen, W.J. \*, Lai, P.L., Chen, L.H., **Niu, C.C.**, Fu, T.S., and Wong, C.B.: Polymethylmethacrylate Cement Dislodgment Following Percutaneous vertebroplasty: A Case Report. *Spine*, 28(22):E457-E460, Nov. 15, 2003. **(SCI)**
32. Fu, T.S., Wong, C.B., Lai, P.L., **Niu, C.C.**, Chen, L.H., and Chen, W.J. \*: Feasibility of Computer-assisted Fluoroscopic Navigation of Pedicle Screw Insertion. *J Orthop Surg ROC*, Vol. 20, No.3: 118-123, 2003.
33. Chen, L.H. \*, Chang, C.H., Lee, Z.L. and **Niu, C.C.**, Lai, P.L., Tan C.F. and **Chen, W.J.**: Intervertebral disc Herniation in Adolescents. *Chang Gung Med J*, Vol. 27, No. 1: 22-28, 2004.
34. Chen, L.H. \*, Lai, P.L., **Niu, C.C.**, Chen, C.H., Chen, W.J. and Fu, T.S.: Intracorporeal Bone Grafting for Vertebral Compression Fractures with Intraosseous Vacuum Phenomenon. *Int Orthop*, Vol.28, No.1:52-55, 2004. **(SCI)**
35. Chen, L.H. \*, **Niu, C.C.**, Yu, s.W., Fu, T.S., Lai, P.L., Chen, W.J.: Minimally Invasive Treatment of Osteoporotic Vertebral Compression Fracture. *Chang Gung Med J*, Vol.27, No.4:261-267, 2004. (3064900097)

36. Huang, J.J., Chen, L.H., **Niu, C.C.** \*, Lai, P.L., Fu, T.S., and Chen, W.J.: Anterior Cervical Spinal Surgery for Multi-level Cervical Myelopathy. *Chang Gung Med J*, Vol. 27, No.7: 531-541, July 2004. (Corresponding author)
37. Chen, W.J. \* ,Lai, P.L., Tai, C.L., Chen, L.H., and **Niu, C.C.**: The Effect of Sagittal Alignment on adjacent Joint Mobility after Lumbar Instrumentation – A Biomechanical Study of Lumbar Vertebrae in a Porcine Model. *Clinical Biomechanics*, Vol.19:763-768, 2004. (SCI)
38. Chen, L.H. \* , **Niu, C.C.**, Lai, P.L., Tsai, S.S., and Chen, W.J.: Recurrent Giant Cell Tumor of the Spinal T7-8 with Metastasis to the Lungs(A Case Report). *Journal of Formosa Medical Association*, Vol.103, No.12:957-961, 2004.(SCI)
39. Lai, P.L. \* , Chen, L.H., **Niu, C.C.**, and Chen, W.J.: The Effect of Post-Operative Lumbar Sagittal Alignment on the Development of Adjacent Instability. *J Spinal Disord Tech*, 17(5):353 -357, Oct. 2004. (SCI)
40. Chen, L.H. \* , **Niu, C.C.**, Fu, T.S., Lai, P.L., Wong, C.B., and Chen, W.J.: Posterior Decompression and Stabilization for Metastatic Spine Disease. *Chang Gung Med J*, Vol.27, No.12:903-910, 2004.
41. Lai, P.L., Chen, L.H. \* , **Niu, C.C.**, Fu, T.S. and Chen, W.J.: Relation between Laminectomy and Development of Adjacent Segment Instability after Lumbar Fusion with Pedicle Fixation. *Spine*, 29(22):2527-2532, Nov. 2004. (SCI)
42. Fu, T.S., Chen, L.H., Liau, J.C., Lai, P.L., **Niu, C.C.**, and Chen, W.J. \*: Magnetic Resonance Imaging Characteristics of Benign and Malignant Vertebral Fractures. *Chang Gung Med J*, Vol.27(11):808-815, Nov. 2004.
43. Fu, T.S., Chen, L.H., Wong, C.B., Lai, P.L., Tsai, T.T., **Niu, C.C.**, and Chen, W.J. \*: Computer-assisted Fluoroscopic Navigation of pedicle Screw Insertion. *Acta Orthopaedica Scandinavica*, Vol.75:730-735, 2004. (SCI)
44. **Niu, C.C.** \* , Chen, L.H., Lai, P.L., Fu, T.S., Chen, W.J.: Single Cylindrical Threaded Cage Used in Fusion for Recurrent Lumbar Disc herniation. *J of Spinal Disorders & Techniques*, Vol.18:Suppl.S65-72, Feb. 2005. (SCI)

45. Kao, F.C., **Niu, C.C.** \*, Chen, L.H., Lai, P.L. and Chen, W.J.: Maintenance of Interbody Space in One- and Two- Level Anterior Cervical Interbody Fusion – Comparison of the Effectiveness of Autograft, Allograft and Cage. *Clinical of Orthopaedic and Related Research*, Vol.430:108-116, 2005. (SCI) (Corresponding author)
46. Chen,W.J. \*, Tsai, T.T., Chen, L.H., **Niu, C.C.**, Lai, P.L., Fu, T.S., Kevin McCarthy: The Fusion Rate of Calcium Sulfate with Local Autograft Bone Compared with autologous Iliac Bone Graft for Instrumented short-Segment Spinal fusion. *Spine*, Vol.30(20):2293-2297, Oct. 2005. (SCI)
47. Chen, S.H., Hui, Y.L., Yu, C.M., **Niu, C.C.**, Lui, P.W. \*: Paraplegia by Acute Cervical Disc Protrusion after Lumbar Spine Surgery. *Chang Gung Med J*, Vol.28, No.4: 254-257 April 2005.
48. **Niu, C.C.** \*, Chen LH., Lai PL, Fu T.S., Chen W.J.:Trapezoidal Titanium Cage in Anterior Cervical Interbody Fusion: A Clinical Experience. *Chang Gung Med J*, Vol.28, No.4: 212-221 April 2005.
49. Chen, L.H. \*, Hung, S.S., **Niu, C.C.**, Chen, W.J.: Risk Factors for Wound Infections after Spinal Surgery. *Formosa Journal of Surgery*, Vol.38, No.1:1-7, Jan/Feb. 2005.
50. Chen, L.H., Kao,F.C., **Niu C.C.**, Lai P.L., Fu, T.S., Chen, W.J. \*: Surgical Treatment of Spinal Pseudoarthrosis in Ankylosing Spondylitis. *Chang Gung Med J*, Vol.28,No.9:621-628, Sep.2005.
51. Lai, P.L., Leu, H.S., **Niu, C.C.**, Chen, W.J., Chen, L.H. \*: Pyogenic Spondylitis Presenting with Skip Lesions. *Chang Gung Med J*, Vol.28,No.9:651-656, Sep.2005.
52. Fu, T.S., Lai, P.L., Tsai, T.T., **Niu, C.C.**, Chen, L.H. \*, Chen, W.J.: Long-term results of disc excision for recurrent lumbar disc herniation with or without posterolateral fusion. *Spine*, 15:30(24):2830-2834, Dec. 2005. (SCI)
53. Yang, S.C., Chen, L.H. \*, Fu T.S., Lai, P.L., **Niu,C.C.**, Chen, W.J.: Surgical Treatment for Giant Cell Tumor of the Thoracolumbar Spine. *Chang Gung Med J*, Vol.29,No.1:71-78, January-February.2006.

54. Yang, S.C., Fu T.S. \*, Lai, P.L., **Niu,C.C.**, Chen, L.H., Chen, W.J.: Transforaminal Epidural Steroid Injection for Discectomy Candidates : An Outcome Study with a Minimum of Two-Year Follow-up. *Chang Gung Med J*, Vol.29,No.1:93-99, January-February.2006.
55. Chen, L.H., Lai, P.L., Tai, C.L., **Niu, C.C.**, Fu, T.S., Chen, W.J. \*: The Effect of Interspinous Ligament Integrity on Adjacent Instability after Lumbar Instrumentation and Laminectomy- An experimental study in porcine model. *Bio-Medical Materials and Engineering*, Vol.16, 261-267, 2006. **(SCI)**
56. Liao, J.C., Chen, W.J. \*, Chen, L.H. and **Niu, C.C.**: Postoperative Wound Infection Rates after Posterior Instrumented Spinal Surgery in Diabetic Patients. *Chang Gung Medical Journal*, Vol.29, No.5:480-485,September-October, 2006.
57. Yang, S.C., Fu, T.S. \*, Chen, L.H., **Niu, C.C.**, Lai, P.L., Chen, W.J.:Percutaneous endoscopic discectomy and drainage for infectious spondylitis. *Int Orthop*. Vol.31(3):367-373, June.2007 **(SCI)**
58. Chen, L.H., Lai, P.L. \*, Lo, Y.P., Fu, T.S., **Niu, C.C.**, Chen, W.J.: Strategy to Handle The Complications of Vertebroplasty for Osteoporotic Compression Fracture. *J. Orthop Surg Taiwan*, Vol24:35-41, 2007
59. Tsai, T.T., Fu, T.S., Lai, P.L., **Niu, C.C.**, Chen, L.H. \*, Chen, W.J.: Elucidating the Roles of Inflammatory Cytokines in Stimulation of Sciatic Pain in Lumbar Disc Herniation. *J. Orthop Surg Taiwan*, Vol24:42-46, 2007
60. Yang, S.C., Yu, S.W., Tu, Y.K., **Niu, C.C.** \*, Chen, L.H., Chen, W.J.:Open-door Laminoplasty with suture anchor fixation for cervical myelopathy in ossification of the posterior longitudinal ligament. *J Spinal Disord Tech*, Vol.20(7):492-498, Oct.2007.**(SCI)** **(Corresponding author)**
61. Liao, J.C.,**Niu, C.C.** \*, Chen, W.J., Chen, L.H.: Polyetheretherketone (PEEK) cage filled with cancellous allograft in anterior cervical discectomy and fusion. *International Orthopaedics*. Vol. 32:643-648. Oct. 2008 **(SCI)** **(Corresponding author)**

62. Chen, L.H. \*, Yang, S.C., **Niu, C.C.**, Lai, P.L., Chen, W.J.: Percutaneous Drainage Followed by Antibiotic-Impregnated Cement Vertebroplasty for Pyogenic Vertebral Osteomyelitis: a case report. *The Journal of Trauma: Injury, Infection, and Critical Care*. Vol.64:E8-11, 2008 Jan. **(SCI)**
63. Yang, S.C., **Niu, C.C.**, Chen, W.J., Wu, C.H., Yu, S.W. \*: Open-door laminoplasty for multilevel cervical spondylotic myelopathy: Good outcome in 12 patients using suture anchor fixation. *Acta Orthopaedica*, Vol.79(1):62-66, April 2008. **(SCI)**
64. Wu, C.H., Wong, C.B., Chen, L.H., **Niu, C.C.**, Tsai, T.T., Chen, W.J. \*: Instrumented Posterior Lumbar Interbody Fusion for Patients With Degenerative Lumbar Scoliosis. *J Spinal Disord Tech* 21(5): 310-315, July 2008.**(SCI)**
65. Chen, W.C., Chen, W.J., **Niu, C.C.**, Lai, P.L., Chen, L.H. \*: Percutaneous vertebroplasty using calcium sulfate cement for osteoporotic vertebral compression fractures with vacuum cleft. *J Orthop Surg Taiwan* 25:156-164, 2008.
66. Chang, S.S., Fu, T.S. \*, Liang, Y.C., Lai, P.L., **Niu, C.C.**, Chen, L.H., Chen, W.J.: Results of Microendoscopic Discectomy Performed in the 26 Case with a Minimum 3 Years Follow-up. *Chang Gung Med J*,:Vol.32(1):89-97, Jan.-Feb.2009.
67. Liao, J.C., Chen, W.J. \*, Chen, L.H., **Niu, C.C.**: Outcome of the L5-S1 Segment after Posterior Instrumented Spinal Surgery in Degenerative Lumbar Diseases. *Chang Gung Med J*,:Vol.32(1):81-88, Jan.-Feb.2009.
68. **Niu, C.C.** \*, Lai, P.L., Fu, T.S., Chen, L.H., Chen, W.J.: Ruling out Piriformis Syndrome before Diagnosing Lumbar Radiculopathy. *Chang Gung Med J*,:Vol.32(2):182-187, Mar.-Apr.2009.
69. **Niu, C.C.**, Yuan, L.J., Lin, S.S., Chen, L.H., Chen, W.J. \*: Mesenchymal Stem Cell and Nucleus Pulposus Cell Coculture Modulates Cell Profile. *Clin Orthop Relat Res*, :Vol.467:3263-3272, Oct. 2009.**(SCI)**



70. Yuan, L.J., **Niu, C.C.**, Lin, S.S., Chan, Y.S., Yang, C.Y., Chen, W.J., Steve W.N. Ueng. \*  
Additive effects of hyperbaric oxygen and platelet-derived growth factor-BB  
in chondrocytes transplantation via up-regulation expression of  
platelet-derived growth factor- $\beta$  receptor. *Journal of Orthopaedic Research*.  
27:1439-1446, 2009. **(SCI)**
71. Chen, L.H. \*, Tai, C.L., Lai, P.L., Lee, D.M., Tsai, T.T., Fu, T.S., **Niu, C.C.**, Chen, W.J.:  
Pullout strength for cannulated pedicle screws with bone cement  
augmentation in severely osteoporotic bone: Influences of radial hole and  
pilot hole tapping. *Clinical Biomechanics* 24:613-618, 2009. **(SCI)**
72. Chen, W.J. \*, Huang, J.W., **Niu, C.C.**, Chen, L.H., Yuan, L.J., Lai, P.L., Yang, C.Y.,  
Lin, S.S.: Use of Fluorescence Labeled Mesenchymal Stem Cells in Pluronic  
F127 and Porous Hydroxyapatite As a Bone Substitute for Posterolateral  
Spinal Fusion. *Journal of Orthopaedic Research*, Vol. 27(12):  
1631-1636. 2009. **(SCI)**
73. **Niu, C.C.**, Tsai, T.T., Fu, T.S., Lai, P.L., Chen, L.H., Chen, W.J. \*: A Comparison of  
Posterolateral Lumbar Fusion Comparing Autograft, Autogenous  
Laminectomy Bone with Bone Marrow Aspirate, and Calcium Sulphate with  
Bone Marrow Aspirate- A Prospective Randomized Study. *Spine*, Vol. 34(25):  
2715-2719. 2009. **(SCI)**
74. Fu, T.S. \*, Yang, S.C., Tsai, T.T., Chen, L.H., Lai, P.L., **Niu, C.C.**, Chen, W.J.  
Percutaneous endoscopic debridement and drainage in  
immunocompromised patients with complicated infectious spondylitis.  
*Minimally Invasive Therapy and Allied Technologies* Vol.19: 42-47. 2010 **(SCI)**
75. **Niu, C.C.**, Liao, J.C. \*, Chen, W.J., Chen, L.H. : Outcomes of Interbody Fusion  
Cages Used in 1 and 2-levels Anterior Cervical Discectomy and Fusion:  
Titanium Cages Versus Polyetheretherketone (PEEK) Cages. *J Spinal Disord  
Tech*. Vol.23(5): 310-316. 2010 **(SCI)**
76. Hung, W.H., **Niu, C.C.**, Lai, P.L., Fu, T.S., Tsai, T.T., Wong, C.B., Yu, C.W., Chen, L.H.  
\*, Chen, W.J.: Minimal Invasive Treatment: Percutaneous Vertebroplasty for  
Metastatic Spinal Tumors. *Journal of Orthopaedic Surgery, Taiwan*, Vol.27(1):  
21-27, Mar, 2010.

77. Kao, Y.H., Yang, S.C., **Niu, C.C.**, Chen, W.J., Yu, S.W. \*, Tu, Y.K.: Cervical corpectomy and reconstruction using titanium mesh cage with anterior plating for multilevel spondylotic myelopathy. *J. Orthop Surg Taiwan* 27: 63-70, 2010.
78. Huang, J.W., Lin, S.S., Chen, W.J. \*, Liu, S.J., **Niu, C.C.**, Chen, L.H., Yuan, L.J.: In vitro osteoblastic differentiation of rabbit mesenchymal stem cells in a poly (lactide-co-glycolide)/interpore/collagen composite system. *J. Orthop Surg Taiwan* 27(2): 71-79, 2010.
79. Chen, L.H. \*, Fu, T.S., Kao, Y.H., Tsai, T.T., Lai, P.L., **Niu, C.C.**, Chen, W.J.: Surgical treatment of infectious spondylitis in patients undergoing hemodialysis therapy. *Eur Spine J*, Vol.19: 2223-2228, 2010. **(SCI)**
80. **Niu, C.C.**, Yuan, L.J., Chen, L.H., Lin, S.S., Tsai, T.T., Liao, J.C., Lai, P.L., Chen, W.J. \*: Beneficial Effects of Hyperbaric Oxygen on Human Degenerated Intervertebral Disk Cells Via Suppression of IL-1<sub>α</sub> and p38 MAPK Signal. *Journal of Orthopaedic Research*. 29(1): 14-19, 2011. **(SCI)**
81. Yu, Y.H., Chen, W.J. \*, Chen, L.H., **Niu, C.C.**, Fu, T.S., Lai, P.L.: Posterior instrumented lumbar spinal surgery in uremic patients under maintenance hemodialysis. *Spine*. 36(8): 660-666. Apr. 2011. **(SCI)**
82. Chen, L.H. \*, Hsieh, M.K., Liao, J.C., Lai, P.L., **Niu, C.C.**, Fu, T.S., Tsai, T.T., Chen, W.J.: Repeated percutaneous vertebroplasty for refracture of cemented vertebrae. *Archives of Orthopaedic and Trauma Surgery*. 131: 927-933. 2011. **(SCI)**
83. Hsieh, M.K., Chen, L.H., **Niu, C.C.**, Fu, T.S., Lai, P.L., Chen, W.J. \*: Postoperative Anterior Spondylodiscitis After Posterior Pedicle Screw Instrumentation. *The Spine Journal*. Vol.11: 24-29, 2011. **(SCI)**
84. Chen, L.H., Tai, C.L. \*, Lee, D.M., Lai, P.L., Lee, Y.C., **Niu, C.C.**, Chen, W.J.: Pullout strength of pedicle screws with cement augmentation in severe osteoporosis: A comparative study between cannulated screws with cement injection and solid screws with cement pre-filling. *BMC Musculoskelet Disord*. 12(1): 33-1~33-11. Feb. 1, 2011.**(SCI)**

85. Wu, M.H., Wong, C.H., **Niu, C.C.** \*, Tsai, T.T., Chen, L.H., Chen, W.J.: A comparison of three types of postoperative pain control after posterior lumbar spinal surgery. *Spine*. 36(25): 2224~2231, 2011. **(SCI)**  
(Corresponding author)
86. Huang, J.W., Lin, S.S., Chen, L.H., Liu, S.J., **Niu, C.C.**, Yuan, L.J., Wu, C.C., Chen, W.J. \*: The Use of Fluorescence-Labeled Mesenchymal Stem Cells in Poly(lactide-co-glycolide)/Hydroxyapatite/Collagen Hybrid Graft as a Bone Substitute for Posterolateral Spinal Fusion. *The Journal of Trauma: Injury, Infection, and Critical Care*. 70(6):1495~1502, June 2011. **(SCI)**
87. Liao, J.C., Chen, W.J. \*, Chen, L.H., **Niu, C.C.**, Gun Keorochana : Surgical outcomes of degenerative spondylolisthesis with L5-S1 disc degeneration: comparison between lumbar floating fusion and lumbosacral fusion at a minimum five-year follow-up. *Spine*. Vol.36: 1600-1607, 2011 **(SCI)**
88. Wang, I.C., Ueng, Steve W.N. \*, Lin, S.S., **Niu, C.C.**, Yuan, L.J., Su, C.I., Chen, C.H., Chen, W.J.: Effect of hyperbaric oxygenation on intervertebral disc degeneration. *Spine*. 36(23):1925~1931, 2011. **(SCI)**
89. Fan Chiang, C.Y., **Niu, C.C.** \*, Lu, M.L., Lai, P.L., Chen, L.H., Chen, W.J.: Treating C1-2 subluxation with transarticular screw and posterior atlantoaxial fusion – A 5-year experience. *Formosan Journal of Musculoskeletal Disorders*. Vol. 2: 125-130, 2011. (Corresponding author)
90. Chen, L.H. \*, Hsieh, M.K., **Niu, C.C.**, Fu, T.S., Lai, P.L., Chen, W.J.: Percutaneous vertebroplasty for pathological vertebral compression fractures secondary to multiple myeloma. *Arch Orthop Trauma Surg*: Vol.132:759-764, 2012. **(SCI)**
91. Fan Chiang, C.Y., Tsai, T.T. \*, Chen, L.H., Lai, P.L., Fu, T.S., **Niu, C.C.**, Chen, W.J.: Computed tomography-based navigation-assisted pedicle screw insertion for thoracic and lumbar spine fractures. *Chang Gung Med J*, Vol. 35(4):332-338, 2012 July-August.
92. **Niu, C.C.**, Lin, S.S., Yuan, L.J., Chen, L.H., Wang, I.C., Tsai, T.T., Lai, P.L., Chen, W.J. \*: Hyperbaric oxygen treatment suppresses MAPK signaling and mitochondrial apoptotic pathway in degenerated human intervertebral disc cells. *Journal of Orthopaedic Research*. 31(2): 204~209. Feb. 2013. **(SCI)**

93. Ueng, Steve W.N. \*, Yuan, L.J., Lin, S.S., **Niu, C.C.**, Chan, Y.S., Wang, I.C., Yang, C.Y., Chen, W.J.: Hyperbaric Oxygen Treatment Prevents Nitric Oxide-Induced Apoptosis in Articular Cartilage Injury via Enhancement of the Expression of Heat Shock Protein 70. *J Orthop Res*. Vol.31:376–384 March, 2013. **(SCI)**
94. Lai, P.L.\*, Hong, D.W., Chu, I.M., Chen, W.J., Chen, L.H., **Niu, C.C.**, Fu, T.S., Tsai, T.T., Liao, J.C.: Polyanhydride copolymer and bioceramic composites as bone Substitutes. *Formosan Journal of Musculoskeletal Disorders*:Vol.4: 6-10, 2013.
95. Fan, K.F.\*, Liao, J.C., **Niu, C.C.**, Chen, L.H., Chen, W.J., Lee, Mel S. Anterior single-screw fixation in 24 patients with type II odontoid fractures . *Formosan Journal of Musculoskeletal Disorders*:Vol.4: 26-31, 2013.
96. Tsai, T.T., Lai, P.L., Liao, J.C., Fu, T.S., **Niu, C.C.**, Chen, L.H., Lee, M.S., Chen, W.J., Fang, H.C., Ho, N.Y. Pang, J.H. \*: Increased periostin gene expression in degenerative intervertebral disc cells. *Spine J*. Vol.13(3):289-298, Mar. 2013. **(SCI)**
97. Liao, J.C.\*, Chen, W.J., Chen, L.H., **Niu, C.C.**, Fu, T.S., Lai, P.L., Tsai, T.T.: Complications associated with instrumented lumbar surgery in patients with liver cirrhosis: a matched cohort analysis. *Spine J*. Vol.13(8):908-913, Aug. 2013. **(SCI)**
98. Kao, F.C., Chen, L.H. \*, Lai, P.L., Fu, T.S., Tsai, T.T., Yu, C.W., Chen, W.C., Lu, M.L., Hsieh, M.K., **Niu, C.C.**, Chen, W.J.: Clinical and radiographic outcome of pillow reduction prior to vertebroplasty on patients with vertebral compression fracture. *Formosan Journal of Musculoskeletal Disorders* 4(2):33-37, May, 2013.
99. Lin, S.S., Ueng, Steve W.N., **Niu, C.C.**, Yuan, L.J., Yang, C.Y., Chen, W.J., Lee, Mel S., Chen, J.K.\*: Hyperbaric Oxygen Promotes Osteogenic Differentiation of Bone Marrow Stromal Cells by Regulating Wnt3a/ $\beta$ -catenin Signaling --- An *In Vitro* and *In Vivo* Study. *Stem cell research*. Vol.12:260-274, 2013. **(SCI)**
100. Lin, T.Y., Liao, J.C. \*, Chen, W.J., Chen, L.H., **Niu, C.C.**, Fu, T.S., Lai, P.L., Tsai, T.T.: Surgical risks and perioperative complications of instrumented lumbar

- surgery in patients with liver cirrhosis. *Biomedical Journal*. Vol.36(6):1-6, Nov-Dec, 2013.
101. Yu, C.W., Hsieh, M.K., Chen, L.H.\* , **Niu, C.C.**, Fu, T.S., Lai, P.L., Chen, W.J., Chen, W.C., Lu, M.L.: Percutaneous balloon kyphoplasty for the treatment of vertebral compression fractures. *BMC surgery*, Vol.14:3, 2014.
102. Yuan, L.J., **Niu, C.C.**, Lin, S.S., Yang, C.Y., Chan, Y.S., Chen, W.J., Ueng, Steve WN \*: Effects of low-intensity pulsed ultrasound and hyperbaric oxygen on human osteoarthritic chondrocytes. *Journal of Orthopaedic Surgery and Research*, Vol.9:5, 2014. (共同第一作者) (SCI)
103. Tsai, T.T., Ho, Y.J. Natalie., Lin, Y.T., Lai, P.L., Fu, T.S., **Niu, C.C.**, Chen, L.H., Chen, W.J., S, J.H. Pang \*: Advanced glycation end products in degenerative nucleus pulposus with diabetes. *Journal of Orthopaedic Research*. Vol.32(2) :238-244, Feb. 2014. (SCI)
104. Kao, F.C., Lai, P.L.\* , Chang, C.H., Tsai, T.T., Fu, T.S., **Niu, C.C.**, Chen, L.H., Chen, W.J.: Influence of lumbar curvature and rotation on forward flexibility in idiopathic scoliosis. *Biomed J*. Vol.37(2):78-83, March-April, 2014.
105. Lin, T.Y., Chen, W.J., Hsieh, M.K., Lu, M.L., Tsai, T.T., Lai, P.L., Fu, T.S., **Niu, C.C.\***, Chen, L.H.: Postoperative meningitis after spinal surgery: a review of 21 cases from 20,178 patients. *BMC Infectious Diseases*. Vol.14:220, 2014. (SCI) (Corresponding author)
106. **Niu, C.C.**, Lin, S.S., Yuan, L.J., Chen, L.H., Pan, T.L., Yang, C.Y., Lai, P.L., Chen, W.J. \*: Identification of mesenchymal stem cells and osteogenic factors in bone marrow aspirate and peripheral blood for spinal fusion by flow cytometry and proteomic analysis. *Journal of Orthopaedic Surgery and Research*. Vol.9:32, 2014. (SCI)
107. Lee, C.Y., Ho, Y.J., Fang, H.C., Wang, M.C., Chang, P.Y., Tsai, T.T.\* , **Niu, C.C.**, Chen, L.H., Chen, W.J., Lee, M.S., Cheng, C.M., Chen, C.F.: Optimal oligonucleotide sequence and condition for detecting tuberculosis by colorimetric gold nanoparticles. *Formosan Journal of musculoskeletal disorders*. Vol.5(1):25-34, Feb. 2014.
108. Lu, M.L., Tsai, T.T., Lai, P.L., Fu, T.S., **Niu, C.C.**, Chen, L.H.\* , Chen, W.J.: A

retrospective study of treating thoracolumbar spine fractures in ankylosing spondylitis. *Eur J Orthop Surg Traumatol*. Vol.24 Suppl 1:S117-S123. Jul. 2014. **(SCI)**