

Curriculum Vitae

Jack Elliot Zigler, M.D., F.A.C.S., F.A.A.O.S.

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**PERSONAL
BACKGROUND**
Date of Birth: May 27, 1952

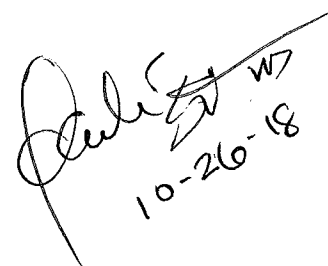
EDUCATION
1973 Bachelor of Science, with Distinction
Cornell University; Ithaca, New York
1977 M.D. Cum Laude
SUNY Upstate Medical Center; Syracuse, New York

POSTGRADUATE TRAINING

July 1977 - June 1978 Resident in Surgery
Long Island Jewish - Hillside Medical Center
New Hyde Park, New York
July 1978 - June 1981 Resident and Chief Resident in Orthopedic Surgery
Mount Sinai School of Medicine
New York, New York
July 1981 - June 1982 Arnold Fellow in Spine Surgery
Henry H. Bohlman, M.D., Preceptor
Department of Orthopedic Surgery
Case Western Reserve Univ. School of Medicine
Cleveland, Ohio

CLINICAL PRACTICE

September 1996 - Present Spine Surgeon
Co-Director Spine Fellowship Program
Texas Back Institute
Plano, Texas
July 1982 - August 1996 Orthopedic Surgeon
Anaheim, California



10-26-18

- 1983 - August 1996 Chief, Spinal Injury Service
Rancho Los Amigos Medical Center
Director of Fellowship & Residency
Orthopedic Training Program
- 1991 – 1996 Clinical Professor of Orthopedic Surgery
USC School of Medicine
Los Angeles, California

HONORS AND APPOINTMENTS

- 1976 Alpha Omega Alpha Honor Medical Society
- 1977 Academic Achievement Award; Alumni Association, Upstate Medical Center
College of Medicine
- 1984 Spinal Injury Consultant to Los Angeles; Olympic Committee
- 1985 - 1995 Chairman, Department of Surgery; West Anaheim Medical Center
- 1992 - 2002 Representative to the Council of Musculoskeletal Specialty Societies of the
American Academy of Orthopedic Surgeons
- 1993 Teaching Excellence Award; Rancho Los Amigos - Vernon Nickel Alumni
Association
- 1994 Contributor: AAOS Self Assessment Examination/Adult Spine
- 1994 - 1997 AAOS Spine Instrument Work Group
- 1995 - 2002 Board of Directors; American Spinal Injury Association
- 1999 - 2001 Secretary/Treasurer, American Spinal Injury Association
- 2001 - 2003 President-Elect, American Spinal Injury Association
- 1994 - 2001 Council of Spine Societies, Executive Committee
- 1996 - 1999 Secretary Council of Spine Societies
- 1997 – 2002 Chairman, Task Force on Aging; North American Spine Society
- 1997 - 2000 Chairman, Program Committee; American Spinal Injury Association
- 1998 - 2001 AAOS Committee on the Spine
- 1998 - 1999 AAOS Task Force on Aging and the Orthopaedic Patient
- 1998 Chairman, Membership Committee: Cervical Spine Research Society
- 1998 – 2002 Executive Committee; Chairman of Core Curriculum Committee CSRS
- 1998 - 2000 ASIA Program Chair for Federation of Spine Associations
- 2000 – 2001 President, Federation of Spine Associations
- 2000-present Section Editor: The Journal of Spinal Cord Medicine
- 2001 Elected to American Orthopaedic Association

- 2002 Chairman, CSRS Committee on Patient Education
- 2002 Foreign Correspondent Columna (Portuguese Spine Journal)
- 2003 President; American Spinal Injury Association
- 2014-present Board of Directors, International Society for the Advancement of Spine Surgery

CERTIFICATION/ MEMBERSHIP

- 1984 Certified by American Board of Orthopedic Surgery
- 1986 Fellow of the American College of Surgeons
- 1987 Fellow of the American Academy of Orthopedic Surgeons

PUBLICATIONS

1. Zigler JE, Waters RL, Nelson RW, Capen DA, Perry J: Occipito-cervico-thoracic Spine Fusion in a Patient With Occipito-cervical Dislocation and Survival. *Spine* 11(6):645-646, 1986.
2. Zigler J, Bahniuk E, Van Dyke C, Bohlman HH: Localization of Foreign Bodies in the Spinal Canal by the Computer - Assisted Biplanar Digitizer. *Spine* 11(9):892-894, 1986.
3. Zigler JE, Bohlman HH, Robinson RA, Riley LH, Dodge LD: Pyogenic Osteomyelitis of the Occiput, the Atlas, and the Axis. A Report of Five Cases. *J Bone Joint Surg* 69-A(7):1069-1073, 1987.
4. Zigler JE, Waters R, Capen DA, Nelson R, Rockowitz N: Posterior Cervical Fusion under Local Anesthesia. *Spine* 12(3):206-208, 1987.
5. Capen DA, Zigler JE, Garland D: Surgical Stabilization in Cervical Spine Trauma. *Contemporary Orthop* 14(2):25-32, 1987.
6. Capen DA, Nelson RW, Zigler J, Waters RL, Garland DE: Surgical Stabilization of the Cervical Spine: A Comparative Analysis of Anterior and Posterior Spine Fusions. *Paraplegia* 25(2):111-119, 1987.
7. Capen DA, Nelson R, Zigler JE, Waters R, Anderson L, Klein N: Staged Total Thigh Rotation Flap for Coverage of Chronic Recurrent Pressure Sores. *Contemporary Orthopedics* 16(6):23-30, 1988.
8. Capen DA, Nelson R, Zigler JE, Sadler CR Jr.: Cervical Laminectomy in Spinal Trauma. *Contemporary Orthop* 16(7):22-30, 1988.
9. Zigler JE, Capen DA: Management of Unstable Spine Injuries. *Complications in Orthop* July/August:124-128, 1989.
10. Kane R, Capen DA, Waters R, Zigler JE, Adkins R: Spinal Cord Injury from Civilian Gunshot Wounds: The Rancho Experience 1980-1988. *J Spinal Disord* 4(3):306-311, 1991.
11. Rosen C, Rothman S, Zigler JE, Capen DA: Lumbar Facet Fracture as a Possible Source of Pain after Lumbar Laminectomy. *Spine* 16(6 Suppl)16:S234-S238, 1991.

12. Rimoldi R, Zigler JE, Capen DA, Hu S: The Effect of Surgical Intervention on Rehabilitation Time in Patients with Thoracolumbar and Lumbar Spinal Cord Injuries. *Spine* 17:1443-1449, 1992.
13. Zigler JE, Field BT: Surgical Procedures for Spinal Cord Injury. *Phys Med Rehab Clin N Amer* 3(November), 1992.
14. Hu SS, Capen DA, Rimoldi RL, Zigler JE: The Effect of Surgical Decompression on Neurologic Outcome after Lumbar Fractures. *Clin Orthop* 288:166-173, 1993.
15. Jenkins LA, Capen DA, Zigler JE, Nelson RW, Nagelberg S: Cervical Spine Fusions for Trauma. A Long-Term Radiographic and Clinical Evaluation. *Orthop Rev Nov(Suppl):13-19*, 1994.
16. Capen DA, Gordon ML, Zigler JE, Garland DE, Nelson RW, Nagelberg S: Nonoperative Management of Upper Thoracic Spine Fractures. *Orthop Rev* 23(10):818-821, 1994.
17. Jenkins LA, Capen DA, Zigler JE, Nelson RW, Nagelberg S: Cervical Spine Fusions for Trauma: A Long Term Radiographic and Clinical Evaluation. *Orthop Review November (Suppl):13-19*, 1994.
18. Capen DA, Gordon ML, Zigler JE, Garland DE, Nelson RW, Nagelberg S: Nonoperative Management of Upper Thoracic Spine Fractures. *Orthop Review XXIII (10):818-821*, 1994.
19. Zigler JE, Capen DA, Rothman SL: Spinal Disease in the Aged. *Clin Orthop* 316:70-79, 1995.
20. Broner FA, Garland DE, Zigler JE: Spinal Infections in the Immunocompromised Host. *Orthop Clin North Am* 27(1):37-46, 1996.
21. Barros TE, Zigler JF, Pentelenyi TJ, Balderston RE, el-Masry WS, Meyer PR Jr: Clinical Case of the Month. Cervical Vertebral Fracture: Orthopaedic Issues. *Spinal Cord* 35(6):358-360, 1997.
22. Barros TE, Bohlman HH, Capen DA, Cotler J, Dons K, Biering-Sorensen F, Marchesi DG, Zigler JE: Traumatic Spondylolisthesis of the Axis: Analysis of Management. *Spinal Cord* 37(3):166-171, 1999.
23. Zigler JE, Anderson PA, Bridwell K, Vaccaro A: What's New in Spine Surgery. *J Bone Joint Surg* 83-A(8):1285-1292, 2001.
24. Barros TE, Zigler J, Aito S, Di Lorenzo N, Wing P: Gunshot Wound to the Spine. *Spinal Cord* 39(10):541-544, 2001.
25. Zigler JE, Boden S, Anderson PA, Bridwell K, Vaccaro A: What's New in Spine Surgery. *J Bone Joint Surg* 84-A(7):1282-1288, 2002.
26. Zigler JE, Strausser DW: The Aging Spine. *Orthopaedic Knowledge Update: Spine 2*, American Academy of Orthopaedic Surgeons; Rosemont, Illinois, 2002.
27. Zigler JE, Burd TA, Vialle EN, Sachs BL, Rashbaum RF, Ohnmeiss DD: Lumbar Spine Arthroplasty: Early Results using the ProDisc II- A Prospective Randomized Trial of Arthroplasty versus Fusion. *J Spinal Disord Tech* 16(4):352-361, 2003.
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32. Boden SD, Balderston RA, Heller JG, Hanley EN Jr, Zigler JE: An AOA Critical Issue. Disc Replacements: This Time Will We Really Cure Low-Back and Neck Pain? *J Bone Joint Surg Am* 86-A(2):411-422, 2004.
33. Zigler JE, Bennett MT: Disc Prosthesis for Lumbar Degenerative Disease and Axial Instability – ProDisc. *Seminars in Spine Surgery* 17(4): 285-296, 2005.
34. Bertagnoli R, Zigler J, Karg A, Voigt S. Complications and Strategies for Revision Surgery in Total Disc Replacement. *Orthop Clin North Am* 36(3):389-395, 2005.
35. Bertagnoli R, Tropiano P, Zigler J, Karg A, Voigt S. Hybrid Constructs. *Orthop Clin North Am* 36(3):379-388, 2005.
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37. Zigler JE, Ohnmeiss DD: Patient Selection for Lumbar Arthroplasty. *Seminars in Spine Surgery* 18:40-46, 2006.
38. Zigler JE: [Editorial] Arthroplasty as the Next Evolution of Surgical Reconstruction of the Spine. *Business Briefing: US Orthopedics Review* 30-35, 2006.
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40. Zigler J, Delamarter R, Spivak JM, Linovitz RJ, Danielson GO 3rd, Haider TT, Cammisa F, Zucherman J, Balderston R, Kitchel S, Foley K, Watkins R, Bradford D, Yue J, Yuan H, Herkowitz H, Geiger D, Bendo J, Peppers T, Sachs B, Girardi F, Kropf M: Results of the Prospective, Randomized, Multicenter Food And Drug Administration Investigational Device Exemption Study of the ProDisc-L Total Disc Replacement versus Circumferential Fusion for the Treatment of 1-Level Degenerative Disc Disease. *Spine* 32(11):1155-1162, 2007.
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45. Zigler JE, Ohnmeiss DD: Comparison of Two-level vs. One-level Total Disc Replacement: Data from a Prospective FDA-regulated Trial. *SAS J* 2(3):140-144, 2008.
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48. Murrey D, Janssen M, Delamarter R, Goldstein J, Zigler J, Tay B, Darden B: Results of the Prospective, Randomized, Controlled Multicenter Food and Drug Administration Investigational Device Exemption Study of the ProDisc-C Total Disc Replacement Versus Anterior Discectomy and Fusion for the Treatment of 1-Level Symptomatic Cervical Disc Disease. *Spine J* 9(4):275-286, 2009.
49. Dickerman RD, Reynolds A, Zigler J, Guyer R: [Letter] Adjacent Segment Degeneration. *J Neurosurg Spine* 10(2):177, 2009.
50. Ohnmeiss DD, Bodemer W, Zigler JE: Effect of Adverse Events on Low Back Surgery Outcome: 24-Month Follow-Up Results from an FDA IDE Trial. *Spine* 35(7):835-838, 2010.
51. Delamarter RB, Murrey D, Janssen ME, Goldstein JA, Zigler J, Tay BK-B, Darden II B: Results at 24 Months from the Prospective, Randomized, Multicenter Investigational Device Exemption Trial of ProDisc-C Versus Anterior Cervical Discectomy and Fusion With 4-Year Follow-Up and Continued Access Patients. *SAS J* 4:122-128, 2010.
52. Delamarter R, Zigler JE, Balderston RA, Cammisa FP, Goldstein JA, Spivak JM: Prospective, Randomized, Multicenter Food and Drug Administration Investigational Device Exemption Study of the ProDisc-L Total Disc Replacement Compared with Circumferential Arthrodesis for the Treatment of Two-Level Lumbar Degenerative Disc Disease: Results at Twenty-Four Months. *J Bone Joint Surg Am* 93(8):705-715, 2011.
53. Zigler JE, Dickerman RD: Orthopaedic Knowledge Update: Spine. American Academy of Orthopaedic Surgeons; Rosemont, Illinois, 2012.
54. Zigler JE: Results of the Five Year Data ProDisc-L Multi-Center PRCT Comparing ProDisc-L to Circumferential Spinal Fusion for Single Level Disabling DDD. *Seminars Spine Surg* 24:25-31, 2012.
55. Rainey S, Blumenthal SL, Zigler JE, Guyer RD, Ohnmeiss DD: Analysis of Adjacent Segment Re-Operation Following Lumbar Total Disc Replacement. Accepted for publication in the *Internat J Spine Surg* 6:140-144, 2012.
56. Zigler JE, Glenn J, Delamarter RB: Five Year Adjacent Level Degenerative Changes Comparing Lumbar Total Disc Replacement with ProDisc-L to Circumferential Fusion in

- Patients with Surgically Treated Single-level Disease. *J Neurosurg: Spine* 17(6):504-511, 2012.
57. Zigler JE, Delamarter RB: Five Year Results of The Prospective, Randomized, Multicenter Food and Drug Administration Investigational Device Exemption Study of the ProDisc-L Total Disc Replacement Versus Circumferential Arthrodesis for the Treatment of 1-Level Degenerative Disc Disease. *J Neurosurg: Spine* 17(6):493-501, 2012.
 58. Zigler JE, Delamarter R, Murrey D, Spivak J, Janssen M: ProDisc-C and Anterior Cervical Discectomy and Fusion as Surgical Treatment for Single-Level Cervical Symptomatic Degenerative Disc Disease: Five-Year Results of a Food and Drug Administration Study. *Spine* 38(3):203-209, 2013.
 59. Blumenthal SL, Ohnmeiss DD, Guyer RD, Zigler JE: Re-operations in Cervical Total Disc Replacement Compared with Anterior Cervical Fusion: Results Compiled from Multiple Prospective FDA IDE Trials Conducted at a Single Site. *Spine* 38(14):1177–1182, 2013.
 60. Delamarter RB, Zigler J: Five-year Re-Operation Rates, Cervical Total Disc Replacement versus Fusion, Results of a Prospective Randomized Clinical Trial. *Spine* 38(9):711–717, 2013.
 61. Zigler JE, Delamarter RB: Does 360° Lumbar Spinal Fusion Improve Long-Term Clinical Outcomes After Failure of Conservative Treatment in Patients With Functionally Disabling Single Level Degenerative Lumbar Disc Disease? Results of 5 Year Follow-Up in 75 Postoperative Patients. *Int J Spine Surg* 7:e1–e7, 2013.
 62. McAnany SJ, Overley S, Baird EO, Cho SK, Hecht AC, Zigler JE, Qureshi SA: The 5-year Cost-Effectiveness of Anterior Cervical Discectomy and Fusion and Cervical Disc Replacement: A Markov Analysis. *Spine* 39(23):1924-1933, 2014.
 63. Zigler JE, Delamarter RB: Oswestry Disability Index. *J Neurosurg Spine* 20(2):241-242, 2014.
 64. Radcliff K, Zigler J, Zigler J: Costs of Cervical Disc Replacement Versus Anterior Cervical Discectomy and Fusion for Treatment of Single-Level Cervical Disc Disease: An Analysis of the Blue Health Intelligence Database for Acute and Long-term Costs and Complications. *Spine* 40(8):521-529, 2015.
 65. Zigler J, Garcia R: ISASS Policy Statement – Lumbar Artificial Disc. *Int J Spine Surg* 9:doi: 10.14444/2007, 2015.
 66. Hipp J, Guyer RD, Zigler JE, Ohnmeiss DD, Wharton ND: Development of a Novel Radiographic Measure of Lumbar Instability and Validation Using the Facet Fluid Sign. *Int J Spine Surg* 9:37; doi: 10.14444/2037, 2015.
 67. Janssen ME, Zigler JE, Spivak JM, Delamarter RB, Darden BV, Kopjar B: Seven-year Follow-up of the Food and Drug Administration Investigational Device Exemption Study of the ProDisc®-C Total Disc Replacement Versus Anterior Cervical Discectomy and Fusion for Single Level Cervical Disc Disease. *J Bone Joint Surg [Am]* 97(21):1738-1747, 2015.
 68. Musacchio MJ, Laurysen C, Davis RJ, Bae HW, Pelozo JH, Guyer RD, Zigler JE, Ohnmeiss DD, Leary S: Evaluation of Decompression and Interlaminar Stabilization Compared with Decompression and Fusion for the Treatment of Lumbar Spinal Stenosis: 5-

- year Follow-up of a Prospective, Randomized, Controlled Trial. *Int J Spine Surg* 10:6 doi: 10.14444/3006, 2016.
69. Zigler JE, Rogers RW, Ohnmeiss DD: Comparison of One-Level versus Two-Level Anterior Cervical Discectomy and Fusion: Clinical and Radiographic Follow-Up at 60 Months. *Spine* 41(6):463-469, 2016.
 70. Radcliff K, Lerner J, Yang C, Bernard T, Zigler JE: Seven-year Cost-effectiveness of ProDisc-C Total Disc Replacement: Results from Investigational Device Exemption and Post-Approval Studies. *J Neurosurg Spine* 24(5):760-768, 2016.
 71. Hisey MS, Zigler JE, Jackson R, Nunley PD, Bae HW, Kim KD, Ohnmeiss DD: Prospective, Randomized Comparison of One-level Mobi-C Cervical Total Disc Replacement vs. Anterior Cervical Discectomy and Fusion: Results at 5-year Follow-up. *Int J Spine Surg* 10:10, 2016.
 72. Blumenthal S, Buttermann G, Garcia R, Gornet M, Grunch B, Guyer R, Janssen M, Kimball B, Lewis A, Mesiwala A, Miller L, Morreale J, Reed W, Dandhu F, Shackelford I, Yue J, Zigler J, O'Connell B, Ferko N, Hollmann S: Foreword: Proceedings From the First Annual Lumbar Total Disc Replacement Summit. *Spine*; 42(Suppl 24):S99-S100, 2017.
 73. Janssen M, Garcia R, Miller L, Reed W, Zigler J, Ferko N, Hollman S: Challenges and Solutions for Lumbar Total Disc Replacement Implantation. *Spine* 42(Suppl24):S108-S111; 2017.
 74. Radcliff K, Spivak J, Darden B, Janssen M, Bernard T, Zigler J: Five-Year Reoperation Rates of 2-Level Lumbar Total Disk Replacement Versus Fusion: Results of a Prospective, Randomized Clinical Trial. Accepted for publication in *Clin Spine Surg* 31(1):37-42, 2018.
 75. Zigler J, Ferko N, Cameron C, Patel L: Comparison of therapies in Lumbar Degenerative Disc Disease: A Network Meta-Analysis of Randomized Controlled Trials. *J Comp Eff Res* 7(3):233-246, 2018.
 76. Zigler J, Gornet MF, Ferko N, Caneron C, Schranck FW, Patel L: Comparison of Lumbar Total Disc Replacement With Surgical Spinal Fusion for the Treatment of Single-Level Degenerative Disc Disease: A Meta-Analysis of 5-Year Outcomes From Randomized Controlled Trials. *Global Spine J* 8(4):413-423, 2018.
 77. Zigler JE, Blumenthal SL, Guyer RD, Ohnmeiss DD, Patel L: Relationship of Range of Motion and Adjacent Level Degeneration Following Lumbar Total Disc Replacement: Results of a Prospective Study with 5-year Follow-up. Accepted for publication in *Spine*.

TEXTBOOK CHAPTERS

1. Zigler JE: *Rehabilitation of Spinal Cord Injuries Following Cervical Fracture*. In Regan JJ (ed) Cervical Spine Disease - State of the Art Reviews, Hanley and Belfus; May 1991, 235-258.
2. Capen DA, Zigler JE: *Spinal Cord Injury*. In Orthopedic Rehabilitation, Second Edition. Churchill Livingstone, 1992.

3. Zigler JE: *Rehabilitation of Acute Spinal Cord Injury*. In: Hochschuler SH, Cotler HB, Guyer RD (eds) Rehabilitation of the Spine: Science and Practice. Mosby-Year Book, Inc., Chicago, Illinois. 1993.
4. Zigler JE: *Spinal Injuries in the Elderly*. In Comprehensive Management of Spine Trauma, Mosby 1997.
5. Levine A, Garfin S, Eismont F, Zigler JE: (eds) Spine Trauma. W.B. Saunders Company. Philadelphia, Pennsylvania, 1998.
6. Zigler JE, Resnick C, Adkins M, Thompson L: *Rehabilitation*. In Levine A et al (eds) Spine Trauma. W.B. Saunders Company. Philadelphia, Pennsylvania, 1998.
7. Zigler JE, Capen DA: *Epidemiology of Spinal Cord Injury*. In Levine A et al (eds) Spine Trauma. W.B. Saunders Company. Philadelphia, Pennsylvania, 1998.
8. Rimoldi RL, Zigler JE: *Immediate Postoperative Care*. In Levine A et al (eds) Spine Trauma. W.B. Saunders Company. Philadelphia, Pennsylvania, 1998.
9. Zigler JE, McGregor M, Triano JJ: *Whiplash*. In: Fitzgerald RH, Kaufer H, Malkani AL (eds): Orthopaedics. Mosby, St. Louis, Missouri; 2002.
10. Johnson MC, Zigler JE: *Whiplash: Diagnosis and Treatment*. In: Fischgrund J (ed): Neck Pain. American Academy of Orthopaedic Surgeons, Rosemont, Illinois; 2004; pp. 27-34.
11. Guyer RD, Zigler JE (Editors): Spinal Arthroplasty: A New Era in Spine Care. Quality Medical Publishing. St. Louis, Missouri; 2005.
12. Zigler JE: *ProDisc: Long and Intermediate-Term Clinical Results*. In: Guyer RD, Zigler JE (eds) Spinal Arthroplasty: A New Era in Spine Care. Quality Medical Publishers, St. Louis, Missouri. 2005; pp 93-100.
13. Zigler JE: *Medical Rehabilitation after Spinal Cord Injury*. In: Clark CR, Benzel EC, Currier BL, Dormans JP, Dvorak JP, Eismont F, Garfin SR, Herkoqitz HN, Ullrich CG, Vaccaro AR (eds): The Cervical Spine, 4th Edition. Lippincott Williams & Wilkins, Philadelphia, Pennsylvania; 2005; pp. 741-745.
14. Zigler JE, Bennett MT: *ProDisc Lumbar Artificial Disk*. In: Kim DH, Cammisa FP Jr., Fessler RG (eds): Dynamic Reconstruction of the Spine. Thieme Medical Publishers, New York, New York; 2006; pp. 179-185.
15. Dickerman RD, Zigler JE: *Discogenic Low Back Pain*. In Spivak JM, Connelly PJ (eds): Orthopaedic Knowledge Update: Spine 3. American Academy of Orthopaedic Surgeons; Rosemont, Illinois; 2006, pp. 319-29.
16. Dickerman RD, O'Malley M, Zigler JE: *Socioeconomics of Spinal Injuries*. In: Jallo J, Vaccaro AR (eds): Neurotrauma and Critical Care of the Spine. Thieme Medical Publishers, Inc. New York, New York; 2009; pp 210-219.
17. Baron EM, Vaccaro AR, Zigler JE: *Epidemiology of Spinal Cord Injury*. In: Zigler JE, Eismont FJ, Garfin SR, Vaccaro AR (eds): Spine Trauma, 2nd Edition. American Academy of Orthopaedic Surgeons, Rosemont, Illinois; 2011.

18. Rimoldi R, Zigler JE: *Immediate Postoperative Care*. In: Zigler JE, Eismont FJ, Garfin SR, Vaccarro AR (eds): Spine Trauma, 2nd Edition. American Academy of Orthopaedic Surgeons, Rosemont, Illinois; 2011.
19. Zigler JE, Resnik C, Carroll L, Ramirez AN, Atkins M, Thompson L: *Rehabilitation*. In: Zigler JE, Eismont FJ, Garfin SR, Vaccarro AR (eds): Spine Trauma, 2nd Edition. American Academy of Orthopaedic Surgeons, Rosemont, Illinois; 2011.
20. Rothman SLG, Zigler JE: *An Imaging Atlas of Spinal Injury*. In: Zigler JE, Eismont FJ, Garfin SR, Vaccarro AR (eds): Spine Trauma, 2nd Edition. American Academy of Orthopaedic Surgeons, Rosemont, Illinois; 2011.
21. Duffy MF, Zigler JE: *Degenerative Disc Disease: Fusion versus Artificial Disc*. In: Jandial R, Garfin SR (eds): Best Evidence for Spine Surgery: 20 Cardinal Cases. Elsevier; Philadelphia, Pennsylvania; 2012; pp. 70-92.
22. Duffy MF, Zigler JE: *Lumbar Total Disc Arthroplasty*. In: Vaccaro AR, Baron EM (eds): Operative Techniques: Spine Surgery, 2nd Edition. Elsevier, Philadelphia, Pennsylvania; 2012; pp. 327-335.
23. Zigler JE, Dickerman RD: *ProDisc-L Artificial Disc*. In: Kim D, Sengupta DK, Cammisa FP, Yoon KJ, Fessler RG (eds): Dynamic Reconstruction of the Spine 2nd Edition. Thieme Medical Publishers, New York, New York, 2015; pp. 334-338.
24. Ilalov K, Guyer RD, Zigler JE, Ohnmeiss DD: *Clinical Results of Total Lumbar Disc Replacement, Including Update of IDE Trials*. In: Kim D, Sengupta DK, Cammisa FP, Yoon KJ, Fessler RG (eds): Dynamic Reconstruction of the Spine 2nd Edition. Thieme Medical Publishers, New York, New York, 2015; pp. 367-373.
25. Ahn J, Zigler JE: *Lumbar Disc Replacement*. In: Singh K, Quereshi S (eds): Decision Making in Degenerative Spinal Surgery: A Case Based Approach. Nova Science Publishers, 2015; pp. 243-254.
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27. Duffy MF, Zigler JE: *Lumbar Total Disc Arthroplasty*. In: Vaccaro AR, Baron EM (eds): Operative Techniques: Spine Surgery, 3rd Edition. Elsevier, Philadelphia, Pennsylvania, 2018; pp. 371-377.
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BOOK REVIEW

Zigler JE: The Cervical Spine. Ed. 2 J Bone Joint Surg 72-A:31B, 1990.

PRESENTATIONS

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80. Zigler JE: Lumbar Disc Arthroplasty. Current Concepts in Spinal Disorders. February, 2005; Las Vegas Lakes, Nevada.
81. Zigler JE: Department of Orthopaedics and Traumatology. Visiting Professor; University of Sao Paulo. March, 2005; Sao Paulo, Brazil.
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