

## CURRICULUM VITAE

### Lee S. Segal, M.D.

Chief, Division of Pediatric Orthopaedic Surgery  
 Clinical Professor of Orthopaedic Surgery and Pediatrics,  
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### PERSONAL DATA:

Date and Place of Birth: October 27, 1957  
 Pittsburgh, Pennsylvania

Family:	Wife:	Susan S. Segal	
	Children:	Benjamin	February 1, 1985
		Emily	April 22, 1988
		Jessica	January 27, 1994

### EDUCATION:

1976-1980	Kenyon College Gambier, Ohio B.A., Biology
1980-1984	Temple University School of Medicine Philadelphia, Pa., M.D.

### POSTGRADUATE TRAINING:

1984-1985	Internship: General Surgery Southern Illinois University School of Medicine and Affiliated Hospitals Springfield, Illinois
1985-1988	Residency: Orthopaedic Surgery Southern Illinois University School of Medicine and Affiliated Hospitals Springfield, Illinois
July - December 1987	Rancho Los Amigos Medical Center Downey, California
1988-1989	Chief Resident: Southern Illinois University School of Medicine and Affiliated Hospitals

Springfield, Illinois

- 1989-1990 Fellowship:  
Pediatric Orthopaedic Surgery  
Children's Hospital of Philadelphia  
Philadelphia, Pa.
- 1990-1996 Assistant Professor  
Departments of Orthopaedics and Rehabilitation and Pediatrics  
The Pennsylvania State University College of Medicine  
The Milton S. Hershey Medical Center  
Hershey, Pa.
- 1996-2004 Associate Professor  
Departments of Orthopaedics and Rehabilitation and Pediatrics  
The Pennsylvania State University College of Medicine  
The Milton S. Hershey Medical Center  
Hershey, Pa.
- 2002-2007 Chief, Division of Pediatric Orthopaedic Surgery  
Department of Orthopaedics and Rehabilitation  
The Pennsylvania State University College of Medicine  
The Milton S. Hershey Medical Center  
Hershey, Pa.
- 2002-2007 Vice-Chairman and Residency Program Director  
Department of Orthopaedics and Rehabilitation  
The Pennsylvania State University College of Medicine  
The Milton S. Hershey Medical Center  
Hershey, Pa
- 2005-2007 Professor  
Departments of Orthopaedics and Rehabilitation and Pediatrics  
The Pennsylvania State University College of Medicine  
The Milton S. Hershey Medical Center  
Hershey, Pa.
- 2006-2007 Edwards P. Schwentker Professor of Orthopaedics  
Department of Orthopaedics and Rehabilitation  
The Pennsylvania State University College of Medicine  
The Penn State. Hershey Medical Center  
Hershey, Pa
- 2007-present Herbert J. Louis MD Endowed Chair of Pediatric Orthopaedic Surgery  
Phoenix Children's Hospital  
Phoenix, Arizona
- 2007-present Clinical Professor of Orthopaedic Surgery and Pediatrics  
Department of Orthopaedic Surgery  
The University of Arizona College of Medicine – Phoenix  
Phoenix, Arizona

**AWARDS, HONORS:**

- 1980 Phi Beta Kappa  
Kenyon College

- Summa Cum Laude  
Kenyon College
- 1984 Alpha Omega Alpha  
Temple University
- 1995 Outstanding Clinical Scientific Paper, "Avascular Necrosis Following Treatment of DDH: The Protective Influence of the Ossific Nucleus." (Presented at the Pediatric Orthopaedic Society of North America 1995 Annual Meeting, Miami, FL., May 2, 1995).
- 1997 Founder's EOA Award, Awarded to David J. Schneider, MD, Berlin, J.M., Bruno, A., Jacobs, C., and Segal, L.S.: "The Contribution of the Ossific Nucleus to the Mechanical Stiffness of the Capital Femoral Epiphysis. A Porcine Model for DDH. (Presented at the Eastern Orthopaedic Association 1997 Annual Meeting, Scottsdale, AR Oct 15-19, 1997).
- 1999 The Humanitarian Orthopaedist Award. The Department of Orthopaedics and Rehabilitation. The Pennsylvania State University College of Medicine.
- 2000 Vincent D. Pellegrini, Jr., M.D. Teaching Award, The Department of Orthopaedics and Rehabilitation. The Pennsylvania State University College of Medicine
- 2002 The Humanitarian Orthopaedist Award. The Department of Orthopaedics and Rehabilitation. The Pennsylvania State University College of Medicine.
- 2002-2012 Selected for inclusion in "*The Best Doctors in America*®" database listing
- 2004 *Leonard Tow Humanism in Medicine Award* presented by *The Arnold P. Gold Foundation*, 7<sup>th</sup> Annual Humanism in Medicine Award, selected as the faculty member at the Pennsylvania State University College of Medicine.
- 2004 Selected for membership in the Kienle Chapter of the Gold Humanism Honor Society (GHHS)
- 2006 Selected 2006 Austrian, Swiss, and German (ASG) Exchange Fellow of the American Orthopaedic Association (AOA); April 25-May 25, 2006.

**SPECIALTY CERTIFICATION:**

- 1985 Diplomat of the National Board of Medical Examiners  
1989 American Board of Orthopaedic Surgery, Part I (written)  
1993 American Board of Orthopaedic Surgery, Part II (oral), July 9, 1993  
2003 American Board of Orthopaedic Surgery, Recertification, July 7, 2003

**LICENSURE:**

- 1989 Pennsylvania, MD# 043237-E  
2007 Arizona, MD# 37451

**ORGANIZATIONS (MEMBERSHIPS IN PROFESSIONAL AND HONORARY SOCIETIES):**

**National:**

1986 to 1994	American Academy of Orthopaedic Surgeons (candidate fellow)
1994 to present	American Academy of Orthopaedic Surgeons (fellow)
1990 to Present	American Academy of Cerebral Palsy and Developmental Medicine
1995 to Present	Pediatric Orthopaedic Society of North America
1994 to 1998	Scoliosis Research Society (candidate fellow)
1995 to Present	American Academy of Pediatrics, Section of Orthopaedic Surgery
1999 to Present	Scoliosis Research Society (Active fellow)
2000	American Orthopaedic Association (Active member)
2005	Spina Bifida Association (PAC)

**Regional:**

1991 to 2007	Pennsylvania Orthopaedic Society, Associate Member
1990 to 2007	Pennsylvania Medical Society
2007 to Present	Arizona Orthopaedic Society
2007 to Present	Western Orthopaedic Society
2007 to Present	Arizona Chapter of the American Academy of Pediatrics

**Other Activities:**

1992 - 2007	Consultant, Children's Developmental Center Pediatric Orthopaedic clinic, Williamsport, Pa.
1990 - 2007	Consultant, pediatric Orthopaedics, Milton S. Hershey School, Hershey, Pa.
1992	Course Instructor, "Current Methodology of Spinal Instrumentation Degenerative and Deformity Applications," Spinal Science Advancement Foundation, Boston, Mass. July 8, 1992
1994 - 2007	Children's Surgery Service Board, The Milton S. Hershey Medical Center, Hershey, Pa.
1996	Operation Smile. Orthopaedic mission to Duitama, Colombia Sept.3 -15, 1996.
1996	Field Tester, 1998 Pediatric Orthopaedic Self-Assessment Examination, American Academy Orthopaedic Surgeons.
1997	Course instructor, "AO/Synthes Spinal Instrumentation Course for OR Personnel," Hershey, Pa. May 4-5, 1997.
1998	Operation Smile. Orthopaedic mission to Duitama, Colombia Sept.2 -14, 1998.
1998	Operation Smile, Orthopaedic mission to Duitama, Colombia Sept. 8-19, 1999.
1999	MMI, Orthopaedic mission to San Pedro Sula, Honduras, Sept 16-30, 2000.
2000 - 2007	Director, Myelomeningocele Clinic, Hershey Medical Center, Hershey, Pa.
2000	Course chairperson, "Hershey Scoliosis Symposium", June 2, 2001

- Hershey Lodge and Convention Center, Hershey, Pa.
- 2000 Volunteer, Camp S.T.A.R., Messiah College, Grantham, Pa. 6/23/2001
- 2003 MMI, Orthopaedic mission to San Pedro Sula, Honduras, Feb 21-March 1, 2003.  
Volunteer, Camp S.T.A.R., Messiah College, Grantham, Pa. 6/23/2003
- 2003 - 2007 Practice Site Director, University Hospital Rehabilitation Clinic
- 2003 Internal Reviewer, Department of Anesthesiology
- 2004 Cure International 3<sup>rd</sup> World Pediatric Orthopaedic Mission to San Pedro Sula, Honduras, Feb 21-28, 2004
- Volunteer, Camp S.T.A.R., Messiah College, Grantham, Pa. 6/24/2004 – 6/25/2004
- 2005 Cure International 3<sup>rd</sup> World Pediatric Orthopaedic Mission to San Pedro Sula, Honduras, Jan 8-15, 2005.
- Volunteer, Camp S.T.A.R., Messiah College, Grantham, Pa. 6/24/2005 – 6/26/2005.
- Cure International 3<sup>rd</sup> World Pediatric Orthopaedic Mission to San Pedro Sula, Honduras, September 23-30, 2005.
- 2006-2010 Appointed member, Professional Advisory Council (PAC) Spina Bifida Association (SBA); 5 year term (2006-2010).
- 2006 POSNA Abstract Reviewer, 2007 Annual meeting.
- 2007 Invited Lecturer, POSNA and Sociedad Hondurena de Ortopedia y Traumatologia. San Pedro Sula, Honduras. April 25-27, 2007.
- 2008 Cure International 3<sup>rd</sup> World Pediatric Orthopaedic Mission to San Pedro Sula, Honduras, April 5-12, 2008.
- 2008 Bioskills Workshop, Phoenix Children's Hospital OR staff, Phoenix, AZ, Sept. 13, 2008
- 2009 Cure International 3<sup>rd</sup> World Pediatric Orthopaedic Mission to San Pedro Sula, Honduras; November 1-7, 2009.
- Orthopaedic Committee Chair, 1<sup>st</sup> World Congress Spina Bifida Care and Research, Orlando, FL, March 9 -11, 2009.
- Course Chairman, Pediatric Orthopaedic Update for Primary Care Physicians, Phoenix Children's Hospital, May 15, 2009.
- 2010 Course Chairman, Orthopaedic Workshop, Pediatric Update 2010 Scottsdale, AZ March 3, 2010.  
Cure International 3<sup>rd</sup> World Pediatric Orthopaedic Mission to San Pedro Sula, Honduras, March 13-20, 2010
- 2011 Instructor, American Academy of Orthopaedic Surgeons Annual Meeting. Instructional /Surgical Skills Course 3SK. Techniques in Intramedullary

Fixation of Pediatric Lower Extremity Fractures. February, 16, 2011. San Diego, Calif.

Cure International 3<sup>rd</sup> World Pediatric Orthopaedic Mission to San Pedro Sula, Honduras, March 27- April 2, 2011.

Invited International Lecturer, Honduran Orthopaedic Society, San Pedro Sula, HN, Sept. 22-24, 2011.

#### **COMMITTEES:**

1. AOA Nominating Committee, The Pennsylvania State University College of Medicine, 1992-1996
2. Clinical Investigation Committee, The Pennsylvania State University College of Medicine, 1994 – 1995
3. Pediatric Orthopaedic Committee of the AAOS, 1997-1998
4. Medical Student Admission Committee, The Pennsylvania State University College of Medicine, 1999-2003.
5. Promotions and Tenure Committee, Department of Orthopaedics and Rehabilitation, The Pennsylvania State University College of Medicine 2000-2003.
6. POSNA Specialty Day/One Day course Committee, 2000-2003
7. Search Committee, Director of Anesthesia and Pain Clinic, The Pennsylvania State University College of Medicine, 2002
8. Peri-operative Capital Equipment Committee, The Pennsylvania State University College of Medicine, 2002
9. Children's Hospital Executive Committee, The Pennsylvania State University College of Medicine, 2002-2007
10. Etiology Committee, Scoliosis Research Society, 2002-2004
11. Chair, Academic Committee, Department of Orthopaedics and Rehabilitation, The Pennsylvania State University College of Medicine, 2004-2007.
12. Trauma Steering Committee, Phoenix Children's Hospital, 2007-present
13. Surgical Committee, Phoenix Children's Hospital, 2007-present
14. Peer Review Committee, Phoenix Children's Hospital, 2008-present
15. ASG Exchange Fellowship Committee, American Orthopaedic Association, 2008-2011.
16. Board of Directors, Spina Bifida Association of Arizona, 2008-present
17. Quality Council at Phoenix Children's Hospital, 2009
18. Vice-Chairman, Surgical Committee, Phoenix Children's Hospital, 2009-2010
19. POSNA Internet Committee, 2009-2012.
20. ASG Exchange Fellowship Committee, American Orthopaedic Association, 2011-2014.

#### **VISITING PROFESSORSHIPS:**

1. Mimi Covert Visiting Professor, Division of Orthopaedics and Rehabilitation, Southern Illinois University School of Medicine, Springfield, Illinois, October 9-10, 1998.
2. Robert Abrams Memorial Lecture, University of Maryland and the Maryland Orthopaedic Association, Kernan Hospital, Baltimore MD, October 9, 2006.
3. The 2<sup>nd</sup> Annual Millar Symposium, Chicago Shriners Hospital for Children – Chicago, Chicago, Ill., May 11, 2007.
4. Albert Einstein Medical Center, Philadelphia, PA. June 13, 2008.
5. Children's Hospital Medical Center of Akron, Akron, Ohio. July 24-25, 2008.

6. Carrie Tingley Children's Hospital , Albuquerque, NM. January 29-30, 2010

#### **EDITORIAL BOARD:**

1. Advisory Editor: Clinical Orthopaedics and Related Research (2006-present)
2. Orthopedics Reviews

#### **CONTINUING MEDICAL EDUCATION**

1. Center for Leadership Development 11/2002-10/2003
2. AAOS Orthopaedic Educators Course, Lisle, Ill. November 13-19, 2004
3. AOA Leadership Course, Module I, Evanston, Ill, March, 2006.
4. AOA Leadership Course, Module II, Evanston, Ill. January, 2007
5. AOA Leadership Course, Module IV, Evanston, Ill. November, 2009

#### **BIBLIOGRAPHY**

##### **JOURNAL ARTICLES PUBLISHED:**

###### Refereed Journals:

1. Segal, L.S., Grimm, J.O., and Stauffer, E.S.: Non-Unions of Fractures of the Atlas. *J Bone Joint Surg* 69A: 1423-1435, 1987.
2. Segal, L.S., Mann, D.C., Feiwell, E., and Hoffer, M.M.: Equinovarus Deformity in Arthrogryposis and Myelomeningocele. Role of Primary Talectomy. *Foot Ankle* 10(1):12-16,1989.
3. Segal, L.S., Sienko, S.E., Mazur, J.M., and Mauterer, M.: Calcaneal Gait in Spastic Diplegia After Heel Cord Lengthening: A Preliminary Study with Gait Analysis. *J Pediatr Orthop* 9(6): 697-701, 1989.
4. Segal, L.S., and Adair, D.M.: Compartment Syndrome of the Triceps as a Complication of Thrombolytic Therapy: A Case Report. *Orthopedics* 13(1): 90-92, 1990.
5. Segal, L.S., Drummond, D.S., Davidson, R.S., Robertson, W.W., Jr., and Gregg, J.R.: In Situ Pin Fixation of Slipped Capital Femoral Epiphysis. *Contemp Orthop* 22(6): 647-653, 1991.
6. Segal, L.S., Davidson, R.S., Robertson, W.W., Jr., and Drummond, D.S.: Growth Disturbances of the Proximal Femur After Pinning of Juvenile Slipped Capital Femoral Epiphysis. *J Pediatr Orthop* 11:631-637, 1991.
7. Millea, T.P. Romanelli, R.R., Segal, L.S., and Lynch, C.J.: Ipsilateral Fracture-Dislocation of the Hip, Knee, and Ankle: Case Report. *J Trauma* 31(3): 416-419, 1991.
8. Segal, L.S., Drummond, D.S., Zanotti, R., Ecker, M.L., and Mubarak, S.J.: Complications of Posterior Arthrodesis of the Cervical Spine in Down Syndrome. *J Bone J Surg* 73A: 1547-1554, 1991.
9. Segal, L.S., Lynch, C.J., and Stauffer, E.S.: Anterior Ankle Dislocation with Associated Trigonal Process Fracture. A Case Report and Literature Review. *Clin Orthop* 278:171-176, 1992.
10. Millea, T.P., Segal, L.S., Liss, R.G., and Stauffer, E.S.: Spine Fracture in Ochronosis. Report of a Case. *Clin Orthop* 281: 208-211,1992.
11. Naide, S., Segal, L.S.: Answer Please. Eosinophilic Granuloma. *Orthopedics* 15(5): 661-665, 1992.

12. Segal, L.S., and Schwentker, E.P.: Wire Holding Frame for Segmental Spinal Instrumentation. *Spine* 19(10): 1190-92, 1994.
13. Wilson, S.C., Paul, E.M., Channick, D.S., and Segal, L.S.: Localization of an Embolized Catheter Tip by Digital Image Enhancement. *Am. J. Roentgen* 163: 1230-1232, 1994.
14. Segal, L.S., Palumbo, R.C. and Robertson, W.W., Jr.: The Development of Rickets as a Complication of Chemotherapy for Treatment of Wilms' Tumor. *Orthopedics* 18(3): 261-264, 1995.
15. Segal, L.S., Schwentker, E.P., Russell, G.B.: Combining Somatosensory and Motor Evoked Potentials for Posterior Spine Fusion. *Educational Synopses in Anesthesiology and Critical Care Medicine. The Online Journal of Anesthesiology* 2 (11), November, 1995.
16. Schwentker, M.C, Russell, G.B., Rodichok, L.D., Segal, L.S., Schwentker, E.P., Blackburn, T.W.: Myogenic Response Distortion of Neurogenic Motor Evoked Potential Morphology. *Anesthesiology* 83(3): 616-619, 1995.
17. Segal, L.S., Weitzel, P., and Davidson, R.S.: Valgus Slipped Capital Femoral Epiphysis. Fact or Fiction? *Clin. Orthop* 322: 91-98, 1996.
18. Segal, L.S., Vrahas, M.S., and Schwentker, E.P.: Dysplasia Epiphysealis Hemimelica of the Sacro-Iliac Joint. A Case Report and Operative Technique. *Clin Orthop* 333: 202-207, 1996.
19. Segal, L.S., Boal, D.K., Borthwick, L., Localio, A.R., Clark, M.W., and Schwentker, E.P.: Avascular Necrosis Following Treatment of DDH: The Protective Influence of the Ossific Nucleus. *J Pediatr Orthop*. 19(2): 177-184, 1999.
20. Segal, L.S., Schneider, D.J., Berlin, J.M., Bruno, A., Davis, B.R., and Jacobs, C.: The Contribution of the Ossific Nucleus to the Structural Stiffness of the Capital Femoral Epiphysis. A Porcine Model for DDH. *J Ped Orthop*, 19: 433-437, 1999.
21. Park EH, Mackay, DR, Manders EK, Segal, LS: Replantation of the Midfoot in a Child. A Six-Year Follow-up with Pedobarographic Analysis. *J Reconstr Microsurg*, 15(5): 337-341, 1999.
22. Segal, L.S.: Custom 95° Condylar Blade Plate for Pediatric Subtrochanteric Femur Fractures. *Orthopedics* 23(2): 103-107, 2000.
23. Segal, L.S., Berlin, J.M., Schneider, D.J., Moulton, M., Fraunhoffer, E: Chondronecrosis of the Hip. The Protective Role of the Ossific Nucleus in an Animal Model. *Clin Orthop* 377: 265-271, 2000.
24. Grayev A.M, Boal, DKB, Wallach,DM, Segal, LS: Metaphyseal Fractures Mimicking Abuse During Treatment for Clubfoot Deformities. *Pediatr Radiol*. 31:559-563, 2001.
25. Segal, L.S.: Advances in Myelomeningocele, *Current Opinion in Orthopaedics*, Vol 12(6): 449-455, 2001.
26. Segal, L.S.: Identical Pediatric Chance Fractures in Identical Twins. A Case Report. *Orthopedics* 25(2): 181-182, 2002.
27. Wallach, D.M., Segal, L.S.: Nontraumatic atlantoaxial and occipitoatlantal instability in children, *Current Opinion in Orthopaedics*, Vol 13(2): 238-243, 2002.
28. Segal, L.S., Wallach, D.M.: Slipped Capital Femoral Epiphysis in a Child with Sickle Cell Disease. (*Clin Orthop* 419: 198-201, 2004.

29. Fayazi, A., Segal, L.S.: Surgical excision of symptomatic lumbar spinous process pseudoarthrosis. *J. Spinal Disorders and Techniques* 17(5): 439-441, 2004.
30. Segal, L.S.: Current concepts in neuromuscular scoliosis, *Current Opinion in Orthopaedics*, Vol 15(6): 439-446, 2004.
31. Segal, L.S., Wallach, D.M., Kanev, P.M.: Potential Complications of Posterior Spine Fusion and Instrumentation in Cerebral Palsy Patients treated with Intrathecal Baclofen Infusion. *Spine* 30(8): E219-224, 2005.
32. Segal LS, Black KP, Schwentker EP, Pellegrini VD: An elective research year in orthopaedic residency: How Does One Measure its Outcome and Define its Success?" *Clin Orthop* 449: 89-94, 2006.)
33. Segal LS, Jacobson J, Saunders MM. Biomechanical analysis of one vs two screw fixation in non-reduced slipped capital femoral epiphysis. *J Pediatr Orthop* 26:479-485, 2006.
34. Magee TH, Segal LS, Ostrov B, Groh B, Vanderhave KL: Lyme disease presenting as popliteal cyst in children. *J Pediatr Orthop* 26: 725-727, 2006.
35. Segal LS, Crawley C, Vanderhave KL: Treatment of ipsilateral clavicle and sternoclavicular physeal fractures with locked plating. *Injury Extra* 37: 447-450, 2006.
36. Segal, L.S., Vanderhave KL: Adolescent Idiopathic Scoliosis: Current concepts of surgical management, *Current Opinion in Orthopaedics*, Vol 17(6): 493-498, 2006.
37. Herrera-Soto JA, Santiago-Cornier A, Segal L.S., Ramirez N, Tamai J: The musculoskeletal manifestations of the Coffin-Lowry syndrome. *J Pediatr Orthop* 27: 85-89, 2007.
38. Segal, LS, Saunders MM: Single versus double screw fixation for slipped capital femoral epiphysis. A review of biomechanical studies. *Orthopaedische Praxis* 43: 54-58, 2007.
39. Magee TH, Vanderhave KL Mackay DR, Segal LS: Congenital constriction band with Pseudoarthrosis of the Tibia: A Case Report and Review of the Literature. *Acta Orthop Belgica* 73(2): 275-278, 2007.
40. Fernandez ML, Segal LS: Entrapment of flexor digitorum profundus following pediatric both bone forearm fractures. *Acta Orthop Belgica* 73(6): 780-784, 2007.
41. Segal LS, Crandall RC: Tibia vara deformity after below-knee amputation and tibiofibular synostosis formation in children. *J Pediatr Orthop* 29; 120-123, 2009.
42. Quintero AJ, Segal LS, King TS, Black KP: The Personality Interview: Assessing the Potential for Personality Similarity to Bias the Selection of Orthopaedic Residents. *Acad Med* 2009; 84: 1364-1372.
43. Vanderhave KL, Caird, MS, Gross S, Farley FA, Graziano GA, Stauff, M, Segal LS: Burst fractures of the thoracic and lumbar spine in children and adolescents. *J Pediatr Orthop* 29: 713-719, 2009.
44. Thomson JD, and Segal LS: Orthopaedic Management of Spina Bifida. *Dev Disabil Res Rev* 16(1): 96-103, 2010.
45. Zibis A, Shrader MW, Segal LS: "Mesenchymal Chondrosarcoma of the Lumbar Spine in a Child: A Case Report" *Clin Orthop* 468: 2288-2294, 2010.
46. Segal LS: "Editorial: Myelomeningocele". *Clin Orthop* 469(5): 1223, 2011.

47. Shrader MW, Bernat NM, Segal LS. Suspected Non-accidental Trauma and Femoral Shaft Fractures in Children." *Orthopedics* 34(5):e70-74, 2011.
48. Chien MT, Bulloch BR, Youssfi M, Shrader MW, Garcia-Filion P, Segal LS: Bedside Ultrasound in the Diagnosis of Pediatric Clavicle Fractures, (accepted for publication, *Pediatric Emergency Care*, October 2010).
49. Segal LS, Shrader MW, Schwentker EP. Reliability of spine radiographs for neuromuscular scoliosis: The role of a seating device for dependent sitters. (Accepted for publication, *OrthopedicTechnology*, February, 2011).
50. Segal LS, Shrader MW. Periosteal entrapment in distal femoral physeal fractures. A harbinger for physeal arrest? (Accepted for publication *Acta Orthop Belgica*, April 2011)

#### Non-Refereed Journals:

1. Segal, L.S., Drummond, D.S., and Betz, R.R.: Sprengel's Deformity: Presence of a Growth Plate in the Omovertebral Bone. *University of Pennsylvania Orthopaedic Journal* 6:40-44, 1990.
2. Segal, L.S., Clark, M.W.: Prevention of Lawn-Mower Injuries in Children. *Capital Kids* (April, 1995).
3. Segal, L.S.: Spinal Fusion in Patients with Cerebral Palsy. *The Function Junction* 5 (2), January, 1998.
4. Segal, L.S., Boal, D.K., Borthwick, L., Localio, A.R., Clark, M.W., and Schwentker, E.P.: Letters to the Editor. *J Pediatr Orthop* 20(2): 275, 2000.
5. Segal, L.S.: Editorial overview. "Third World Orthopaedics." *Pediatric Orthopedics / Prosthetics and Orthotics, Current Opinion in Orthopaedics*, Vol 11(6): 429-430, 2000.
6. Segal, L.S., Clark, M.W. Letters to the Editor. *J Pediatr Orthop* 21:135-136, 2001.
7. Segal, L.S.: Editorial overview. "Mentoring." *Pediatric Orthopedics / Prosthetics and Orthotics, Current Opinion in Orthopaedics*, Vol 12(6): 435-436, 2001.
8. Segal, L.S.: Editorial overview. "Challenging dogma in orthopaedics." *Pediatric Orthopedics / Prosthetics and Orthotics, Current Opinion in Orthopaedics*, Vol 15(6): 397-398, 2004.
9. Segal, LS: "3<sup>rd</sup> world waiting room," Photograph, *Wild Onions Vol XVIII*, 2005.
10. Segal, LS: Bone mineral density in myelomeningocele. *SpineLine* 29, 2007.
11. Segal, LS: Orthopaedics: 1<sup>st</sup> World Congress of Spina Bifida Care and Research 2009. Center for Disease Control (CDC) publication. 2009.

#### **JOURNAL ARTICLES SUBMITTED FOR PUBLICATION:**

1. Segal LS, Magee TH: Missed fractures in pediatric trauma patients. (*J Am Acad Orthop Surg* (Accepted for publication, 2006).
2. Bryce CD, Cameron M, Segal LS, Chinchilli, VM, Black KP: Evaluation of core competencies in applicants to orthopaedic residency programs (Submitted *Medical Education*, May, 2008).

3. Shrader MW, Bernat N, Segal LS. Disseminated Methicillin-Resistant Staphylococcus Aureus Musculoskeletal Infections in Children
4. Segal LS, Torretti J, Vanderhave KL, Zibis A: Evaluation of transverse plane pelvic obliquity using radiographs in patients with cerebral palsy and neuromuscular scoliosis.

#### **RESEARCH IN PROGRESS:**

1. Segal, L.S., Zibis A, Knaub M, Pinkus D, Gidvani S.: Inter and Intra-observer Reliability of Pelvic Obliquity Measurements in Neuromuscular Scoliosis.

#### **BOOKS AND CHAPTERS:**

1. Segal, L.S., and Robertson, W.W., Jr.: The Complications of Treatment of Slipped Capital Femoral Epiphysis. In C.H.Epps, (Ed.) *Complications in Orthopaedic Surgery*, Volume 3, pp. 363-383, J.B. Lippincott, Philadelphia, 1995.
2. Segal, L.S.: Somatosensory and Motor Evoked Potentials for Posterior Spine Fusion. In Russell, G.B. and Rodicek, L.D. (Eds.) *Primer of Intraoperative Neurophysiologic Monitoring*, pp. 205-226, Butterworth and Heinemann, Boston, 1995.
3. Segal, L.S.: Hybrid Posterior Spinal Segmental Instrumentation for Adolescent Idiopathic Scoliosis. In Drummond, D.S. (Ed.) *Spine: State of the Art Reviews*, Strategies in the Pediatric Spine, pp. 77-88, Hanley & Belfus, Philadelphia, Vol. 14(1), 2000.
4. Segal, L.S.: Galveston Rod Contouring / Placement. In Vaccaro A.R. and Albert T.J. (Eds.) *Tricks of the Trade in Spine Surgery*, pp. 166-168. Thieme Publishers, New York, 2003.
5. Segal, L.S.: Spine and Pelvic Trauma. In Dormans J.P. (Ed.) *Pediatric Orthopaedics and Sports Medicine: The Requisites in Pediatrics*, pp. 1-20, Mosby, Inc, St. Louis, Missouri, 2004.
6. Segal, L.S.: Pediatric Spine and Pelvic Trauma. In Dormans J.P. (Ed.) *Pediatric Orthopaedics: Core Knowledge in Orthopaedics*, pp. 116-137, Elsevier, New York, 2005.
7. Akbarnia BA, and Segal, L.S.: Infantile, Juvenile, and Adolescent idiopathic scoliosis. In Drummond, D.S. (Ed.). *Orthopaedic Knowledge Update – Spine (3)*, pp. 443-458. American Academy of Orthopaedic Surgeons, Rosemont, Ill, 2006.
8. Vanderhave KL, and Segal LS: Evaluation and Surgical Management of Thoracic / Thoracolumbar Junction Injuries in Children. In Kim DH, Ludwig SC, Vaccaro, AH, Chang JC (Eds) *Atlas of Spine Trauma: Adult and Pediatrics*, pp. 546- 554, Saunders Elsevier, Philadelphia, Pa., 2008.

#### **INVITED JOURNAL EDITOR:**

1. Robertson, W.W., Jr., Segal, L.S. (eds.): "Symposium: Slipped Capital Femoral Epiphysis." *Clin Orthop and Related Research* 322, Jan.1996.
2. Segal, L.S.: Section editor, Pediatric Orthopedics / Prosthetics and Orthotics, *Current Opinion in Orthopaedics*, Vol. 11(6), Dec. 2000.
3. Segal, L.S.: Section editor, Pediatric Orthopedics / Prosthetics and Orthotics, *Current Opinion in Orthopaedics*, Vol. 12(6), Dec. 2001.

4. Segal, L.S.: Section editor, Pediatric Orthopedics / Prosthetics and Orthotics, *Current Opinion in Orthopaedics*, Vol. 13(6), Dec. 2002.
5. Segal, L.S.: Section editor, Pediatric Orthopedics / Prosthetics and Orthotics, *Current Opinion in Orthopaedics*, Vol. 14(6), Dec. 2003.
6. Segal, L.S.: Section editor, Pediatric Orthopedics / Prosthetics and Orthotics, *Current Opinion in Orthopaedics*, Vol 15(6), Dec. 2004
7. Segal, L.S. (ed.): "Symposium: Myelomeningocele." *Clin Orthop and Related Research* xxx, Jan. 2011.

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2. Segal, L.S., Sienko, S.E., Mazur, J.M., and Mauterer, M.: Calcaneal Gait in Spastic Diplegia After Heel Cord Lengthening. A Preliminary Study with Gait Analysis. AACPD 41st Annual Mtg, Boston, MA. *Orthopaedic Transactions* 13(3): 721, 1989.
3. Sienko, S.E., Mazur, J.M., Jones, J., and Segal, L.S., : "Assessment of the Driving Ability with Cerebral Palsy Using Electromyography and Joint Motion Evaluation." AACPD 41st Annual Meeting, Boston, Mass. October, 1987., *Orthopaedic Transactions* 13(3):736-37, 1989.
4. Stauffer, E.S., and Segal, L.S.: Total Hip Arthroplasty in the Renal Transplant Patient: A Long-Term Follow-up Study. Assoc. of Bone and Joint Surgeons, 41st Annual Meeting, May, 1989. Memphis, TN *Orthopaedic Transactions* 13(3): 686, 1989.
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8. Wilson, S.C., Segal, L.S., and Schwentker, E.P.: Posterior Spine Fusion to L5 in Patients with Duchenne Muscular Dystrophy. AACPD, Louisville, Ky. 1991 *J. Pediatr. Orthop.* 12:413, 1992.
9. Bronson, W., Drummond, D.S., Segal, L.S. and Schwentker, E.P.: Treatment of Scoliosis in Patients with Duchenne Muscular Dystrophy. Scoliosis Research Society, Dublin, Ire. 1993 *Orthopaedic Transactions* 18(1):115, 1994.
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11. Magnes, S.A., Segal, L.S., and Greer, R.B. III : Complications Associated with a Modified Technique of Hip Arthrodesis with Cobra Plate Fixation. Orthopaedic Residents Conference. Pittsburgh, Pa. May, 1995. *Orthopaedic Transactions* 19(3): 698, 1995.

12. Segal, L.S., Desciak, E., Schwentker, E.P.: Posterior Spine Fusion to L5 and Pelvic Obliquity in Patients with Cerebral Palsy. AACPDM 1995 Annual Meeting, Philadelphia, Pa. Sept 28-Oct 1, 1995. *Develop Med Child Neurol* (Supplement 73) 37(8): 2-3, 1995.
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14. Freudigman, P.T., Segal, L.S., and Arangio, G.: Enders Nailing for Pediatric Femoral Shaft Fractures. AOA 30th Annual Residents' Conference, New York, N.Y., March 14-16, 1997. *Orthopaedic Transactions* xx: xx, 1997.
15. Segal, L.S., Berlin, J.M., Schneider, D.J., Bruno, A., and Jacobs, C.: The Contribution of the Ossific Nucleus to the Mechanical Stiffness of the Capital Femoral Epiphysis. A Porcine Model for DDH. Pediatric Orthopaedic Society of North America, , May 15, 1997. *Orthopaedic Transactions* 21:644, 1997.

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1. Ostrov, B.E., Segal, L.S., Egli, K.: Lumbar Scheuermann's Disease: a cause of recurrent back pain and degenerative disc disease in adolescents. American Academy of Pediatrics, Chicago, Ill., March, 1993.
2. Boal, D., Segal, L.S., and Borthwick, L.: The Role of Established Femoral Head Vascularity in the Management of Developmental Dysplasia of the Hip. Society for Pediatric Radiology 37th Annual Meeting, Colorado Springs, CO. April, 1994.
3. D'Arco, D., Segal, L.S., Decter, R., and Schwentker, E.P.: Anterior Innominate Osteotomies in the Treatment of Bladder Exstrophy. American College of Surgeons, Central Pennsylvania Chapter, Hershey, Pa. April 21, 1995.
4. Segal, L.S., Boal, D.K., Borthwick, L., Clark, M.W., and Schwentker, E.P.: Avascular Necrosis Following Treatment of DDH. The Protective Influence of the Ossific Nucleus. AAOS 62nd Annual Meeting, Orlando, Fla. Feb, 1995.
5. Magnes, S.A., Segal, L.S., and Greer, R.B. III : Complications Associated with a Modified Technique of Hip Arthrodesis with Cobra Plate Fixation. Orthopaedic Residents Conference. Pittsburgh, Pa. May, 1995.
6. Segal, L.S., Boal, D.K., Borthwick, L., Schwentker, E.P., Clark, M.W.: Avascular Necrosis Following Treatment for DDH: The Protective Influence of the Ossific Nucleus. Pediatric Orthopaedic Society of North America Annual Meeting, May, 1995. (presentation).
7. Segal, L.S., Desciak, E., Schwentker, E.P.: Posterior Spine Fusion to L5 and Assessment of Pelvic Obliquity in Patients with Cerebral Palsy. (AAOS 63<sup>rd</sup> Annual Meeting, Atlanta, Ga.. Feb. 1996).
7. Russell, G.B., Blackburn, T.W., Marshall, W.K., Schwentker, M.C., Graybeal, J.M., Rodichok, L.M., Segal, L.S., Schwentker, E.P.: Monitoring Intraoperative Spinal Cord Function of Cerebral Palsy Patients. (Society of Neurosurgical Anesthesia and Critical Care. Atlanta, GA, October 20, 1995.)
8. Luchetti W.T., Drummond, D.S., Theiss, S.M., Segal, L.S., Schwentker, E.P., Bronson, W.: Extension of Spinal Fusion to the Sacrum in Patient's with Duchenne's Muscular Dystrophy: Is it Indicated? 1997 (AAOS Annual Meeting, San Francisco, Ca., Feb 16, 1997.)

9. Segal, L.S., Berlin, J.M., Schneider, D.J., Bruno, A., and Jacobs, C.: The Contribution of the Ossific Nucleus to the Mechanical Stiffness of the Capital Femoral Epiphysis. A Porcine Model for DDH. (Pediatric Orthopaedic Society of North America, Banff, Canada., May 15-17, 1997.)
10. Segal, L.S., Blackburn, T.W., Oliveri, D., Graybeal, J.M., Schwentker, M.C., Russell, G.B.: Intraoperative Assessment of Vertebral Screw Placement with Evoked Electromyography in a Porcine Model. (SRS, St. Louis, Mo., Sept. 24-27, 1997.)
11. Segal, L.S., Berlin, J.M., Schneider, D.J., Moulton, M., Boal, D.K.: Injury to the Capital Femoral Epiphysis in Growing Rabbits. An Animal Model for the Protective Role of the Ossific Nucleus in DDH. (1998 AAOS Annual Meeting, New Orleans, La., March 19-23, 1998.)
12. Blackburn, T.W., Segal, L.S., Schwentker, M.C., Oliveri, D., Russell, G.B.: Intraoperative Assessment of Vertebral Screw Placement with Electromyography in a Porcine Model. (ASA, San Diego, CA, Sept 19-23, 1997).
13. Schneider, D.J., Berlin, J.M., Bruno, A., Jacobs, C., and Segal, L.S.: The Contribution of the Ossific Nucleus to the Mechanical Stiffness of the Capital Femoral Epiphysis. A Porcine Model for DDH. (Eastern Orthopaedic Association, Phoenix, AR, Oct, 1997).
14. Freudigman, P.T., Segal, L.S., and Arangio, G.: Enders Nailing for Pediatric Femoral Shaft Fractures. AOA 30th Annual Residents' Conference, New York, N.Y., March 14-16, 1997.
15. Segal, L.S., Berlin, J.M., Schneider, D.J., Moulton, M., Frauenhoffer, E: Injury to the Capital Femoral Epiphysis in Growing Rabbits. An Animal Model for the Protective Role of the Ossific Nucleus in DDH. (1998 Pediatric Orthopaedic Society North America Annual Meeting, Cleveland, Ohio, May 5-7, 1998).
16. Segal, L.S., Berlin, J.M., Schneider, D.J., Moulton, M., Frauenhoffer, E: Injury to the Capital Femoral Epiphysis in Growing Rabbits. An Animal Model for the Protective Role of the Ossific Nucleus in DDH. (1999 AAOS Annual Meeting, Anaheim, CA, Feb. 4-8, 1999).
17. Segal, L.S.: Custom 95° Condylar Blade Plate for Pediatric Subtrochanteric Femur Fractures. (Pediatric Orthopaedic Society of North America, Annual Meeting, Lake Buena Vista, FL, May 17-19, 1999.)
16. Segal, L.S., Reighard, C.T.: Subtrochanteric Valgus Osteotomy and Femoral Head Resection for Chronic Painful Dislocated Hips in Patients with Cerebral Palsy. (Pediatric Orthopaedic Society of North America, Annual Meeting, Lake Buena Vista, FL, May 17-19, 1999.)
17. Segal, L.S., Reighard, C.T.: Bertolotti's Syndrome in Adolescents. (Pediatric Orthopaedic Society of North America, Annual Meeting, Vancouver, BC, May 1-4, 2000.)
18. Segal, L.S., Wallach, D.M., Kanev, P.M.: Complications with Intrathecal Baclofen Infusion and Posterior Spine Fusion in Patients with Cerebral Palsy. (Pediatric Orthopaedic Society of North America, Annual Meeting, Vancouver, BC, May 1-4, 2000.)
19. Grayev A.M, Wallach, DM, Boal, DK, Segal, LS: Metaphyseal Fractures Mimicking Abuse During Treatment for Clubfoot Deformities. (Pediatric Orthopaedic Society of North America, Annual Meeting, Cancun, Mexico, May 2-5, 2001.)
20. Reighard, CR, Polomano RC, Haack M, Wallach DM, Segal, LS: Analysis of pain and satisfaction with pain care in postoperative pediatric orthopaedic patients. A Preliminary Report. (Pediatric Orthopaedic Society of North America, Annual Meeting, Cancun, Mexico, May 2-5, 2001.)

21. Segal LS, Jacobson J, Saunders MM, Wallach DM: Biomechanical analysis of in situ single screw versus double screw fixation in a non-reduced slipped capital femoral epiphysis model. (Pediatric Orthopaedic Society of North America, Annual Meeting, Amelia Island, Florida, May 1-4, 2003.)
22. Cheung EV, Guille JT, Betz RR, Mulcahey MJ, D'Andrea LP, Cerrone J, Robert M. Campbell, Jr RM, Johnston C, Lubicky JP, Segal LS, Moreland MS: The Natural History and Results of Surgical Treatment of Patients with Fused Ribs and Congenital Scoliosis. (Scoliosis Research Society, Annual Meeting, Buenos Aires, Argentina, Sept, 2004).
23. Segal LS, Jacobson J, Saunders MM. Biomechanical analysis of one vs two screw fixation in non-reduced slipped capital femoral epiphysis. Annals of Biomedical Engineering, Biomedical Engineering Society 2004 Annual Fall Meeting, Philadelphia, PA, Oct 13-16, 2004.
24. Segal LS, Jacobson J, Saunders MM, Wallach DM: Biomechanical Analysis of In-situ Single vs. Two Screw Stabilization in a Non-Reduced Slipped Capital Femoral Epiphysis Model. (2005 AAOS Annual Meeting, Washington, D.C., March 23-27, 2005.)
25. Herrera-Soto JA, Segal LS, Norman Ramirez-Lluch N, Tamai J: The musculoskeletal manifestations of the Coffin-Lowry syndrome: A multicenter study. (2005 EPOS, Palma de Mallorca, Spain, April 4-6, 2005).
26. Herrera-Soto JA, Ostrov B, Groh B, Segal LS: Bunion deformity in juvenile rheumatoid arthritis: radiographic characteristics. (2005 EPOS, Palma de Mallorca, Spain, April 4-6, 2005).
27. Herrera-Soto JA, Segal LS, Norman Ramirez-Lluch N, Tamai J: The musculoskeletal manifestations of the Coffin-Lowry syndrome: A multicenter study. (2005 POSNA, Ottawa, Canada, May 13-15, 2005).
28. Vanderhave KL, Segal LS, Ostrov B, Groh B, Magee T: Lyme disease presenting as popliteal cyst in children. (2005 POSNA, Ottawa, Canada, May 13-15, 2005).
29. Rinkus KM, Wallach DM, Segal LS: Pedicle screw only constructs for correction of pediatric neuromuscular scoliosis. (SRS Annual Meeting, Miami, Florida, Oct 25-27, 2005).
30. Segal LS, Black KP Pellegrini VD: "An elective research year in orthopaedic residency: what is the impact?" (AOA, San Antonio, TX, June 2006).
31. Cameron ML, Segal LS, Black KP: "An International Comparison of Orthopaedic Residency Training" (119<sup>th</sup> AOA Annual Meeting, San Antonio, TX, June 2006).
32. Fernandez ML, Vanderhave KL, Segal LS: "Entrapment of flexor digitorum profundus following pediatric both bone forearm fractures" (2006 POSNA, San Diego, CA, May 3-6, 2006).
33. Crawley CE, Vanderhave KL, Segal LS: "Treatment of ipsilateral clavicle and sternoclavicular physal fractures with locked plating: a report of two cases and review of the literature" (2006 POSNA, San Diego, CA, May 3-6, 2006).
34. Rinkus KM, Wallach DM, Segal LS: Pedicle Screw-Only Constructs for Correction of Pediatric Neuromuscular Kyphosis. (IMAST, Athens, Greece, July 7-10, 2006).
35. Bryce C, Black KP, Chinchilli VM, Segal LS: Evaluation of core competencies in applicants to orthopaedic residency programs. ACGME Annual Educational Meeting, Kissimmee, Fl. March 1-4, 2007.

36. Segal LS, Quintero AJ, Black KP: The Myers-Briggs Inventory (MBTI) in the selection of orthopaedic residents. (120<sup>th</sup> AOA Annual Meeting, Asheville, NC. June 13-16, 2007)
37. Bryce C, Black KP, Chinchilli VM, Segal LS: Evaluation of core competencies in applicants to orthopaedic residency programs. (120<sup>th</sup> AOA Annual Meeting, Asheville, NC. June 13-16, 2007).
38. Segal LS, Torretti J, Vanderhave KL, Zibis A: Evaluation of transverse plane pelvic obliquity using radiographs in patients with cerebral palsy and neuromuscular scoliosis. (SRS Annual Meeting, Edinburgh, Scotland. Sept 4-8, 2007).
39. Segal LS, Stauff M: Burst fractures of the spine in children and adolescents. (AAOS 2008 Annual Meeting, March 5-9 in San Francisco, CA).
40. Segal LS: Tibia vara deformity after below-knee amputation and tibiofibular synostosis formation in children. (AAOS 2008 Annual Meeting, March 5-9 in San Francisco, CA).
41. Segal LS, Crandall RC: Tibia vara deformity after below-knee amputation and tibiofibular synostosis formation in children. (POSNA 2008 Annual Meeting, April 30-March 3, Albuquerque, NM).
42. Vanderhave KL, Stauff, M, Segal, LS: Burst fractures of the spine in children and adolescents. (POSNA 2008 Annual Meeting, April 30-March 3, Albuquerque, NM).
43. Martell JM, Mangla J, Ellis R, Atada A, Sullivan CM, Bielski RJ, Segal LS: A Novel Biomechanical Method to assess the risk for slipped capital femoral epiphysis in children. (Orthopaedic Research Society (ORS) 2009 Annual Meeting, Feb 23-25, Las Vegas, NV).
44. Segal LS, Mangla J, Ellis R, Atada A, Sullivan CM, Bielski RJ, Martell JM: A Novel Biomechanical Method to assess the risk for slipped capital femoral epiphysis in children. (POSNA 2009 Annual Meeting, April 30-March 3, Boston, MA).
45. Shrader MW, Segal LS: Physician Evaluation of the PODCI Quality of Life Questionnaire. Zagreb, Croatia, April 7–10, 2010.
46. Shrader MW, Bernat N, Segal LS: Non-accidental trauma and pediatric femoral shaft fractures. Zagreb, Croatia, April 7–10, 2010.
47. Shrader MW, White GR, Segal LS: Re-operations after Posterior Spinal Fusion for Adolescent Idiopathic Scoliosis. EPOS 2010 Annual Meeting, Zagreb, Croatia, April 7–10, 2010.
48. Segal LS, Shrader MW, Karlen JW, White GR: Periosteal entrapment in distal femoral physeal fractures: Harbinger for premature physeal arrest? POSNA 2010 Annual Meeting, Honolulu, HI, May 3-6, 2010.
49. Shrader MW, White GR, Segal LS: Re-operation Rate after Posterior Spinal Fusion for Adolescent Idiopathic Scoliosis. POSNA 2010 Annual Meeting, Honolulu, HI, May 3-6, 2010.

#### **PRESENTATIONS TO NATIONAL AND INTERNATIONAL MEETINGS:**

1. Segal, L.S., Sienko, S.E., Mazur, J.M., and Mauterer, M.: "Calcaneal Gait in Spastic Diplegia after Heel Cord Lengthening: A Preliminary Study with Gait Analysis." AACPDM 41st Annual Meeting, Boston, Mass., October 1987.

2. Sienko, S.E., Mazur, J.M., Jones, J., and Segal, L.S.: "Assessment of the Driving Ability with Cerebral Palsy Using Electromyography and Joint Motion Evaluation." AACPD 41st Annual Meeting, Boston, Mass. October, 1987.
3. Segal, L.S., Sienko, S.E., Mazur, J.M., and Mauterer, M.; "Calcaneal Gait in Spastic Diplegia after Heel Cord Lengthening. A Study with Gait Analysis." Poster Exhibit. American Orthopaedic Foot and Ankle Society, Inc., Preliminary Program 18th Annual Meeting, Atlanta, Ga., February, 1988.
4. Robertson, W.W., Jr., Palumbo, R., Segal, L.S., Burk, C., and Meadows, A.: "The Development of Rickets as a Complication of Chemotherapy for the Treatment of Wilms' Tumor." POSNA, San Francisco, Cal. 1990.
5. Drummond, D.S., Segal, L.S., Davidson, R.S., and Robertson, W.W., Jr.: "Growth Disturbances of the Proximal Femur After Pinning of Juvenile Slipped Capital Femoral Epiphysis." Pediatric Orthopaedic Society of North America. Annual Meeting, San Francisco, Cal. May, 1990.
6. Segal, L.S., Drummond, D.S., Zanotti, R., Ecker, M.L., and Mubarak, S.J.: "Complications of Posterior Arthrodesis of the Cervical Spine in Down Syndrome." AAOS 59th Annual Meeting, Anaheim, Cal. 1991.
7. Segal, L.S., Wilson, S.C., Schwentker, E.P.: "Posterior Spine Fusion to L5 in Patients with Duchenne Muscular Dystrophy." Poster Exhibit. AAOS 60<sup>th</sup> Annual Meeting, Washington, D.C., February, 1992.
8. Boal, D.K., Segal, L.S., and Borthwick, L.: "The Role of Established Femoral Head Vascular in Developmental Dysplasia of the Hip." Society for Pediatric Radiology. 37th Annual Meeting. Colorado Springs, Col., April, 1994 (Awarded Silver Medal).
9. Segal, L.S., Boal, D.K., Borthwick, L., Schwentker, E.P., and Clark, M.W.: "Avascular Necrosis Following Treatment of DDH: The Protective Influence of the Ossific Nucleus." AAOS 62nd Annual Meeting, Orlando, Fla., Feb. 1995.
10. Segal, L.S., Boal, D.K., Borthwick, L., Schwentker, E.P., and Clark, M.W.: "Avascular Necrosis Following Treatment of DDH: The Protective Influence of the Ossific Nucleus." Pediatric Orthopaedic Society of North America, Miami, Fl. May, 1995 (**Awarded Outstanding Clinical Scientific Paper**)
11. Segal, L.S., Desciak, E., Schwentker, E.P.: "Posterior Spine Fusion to L5 and Pelvic Obliquity in Patients with Cerebral Palsy." AACPD 1995 Annual Meeting, Philadelphia, Pa. Sept 28-Oct 1, 1995.
12. Segal, L.S., Berlin, J.M., Schneider, D.J., Bruno, A., and Jacobs, C.: "The Contribution of the Ossific Nucleus to the Mechanical Stiffness of the Capital Femoral Epiphysis. A Porcine Model for DDH." Pediatric Orthopaedic Society of North America, Banff, Canada., May 15-17, 1997.
13. Blackburn, T.W., Segal, L.S., Schwentker, M.C., Oliveri, D., Russell, G.B.: Intraoperative Assessment of Vertebral Screw Placement with Electromyography in a Porcine Model. Poster Exhibit. Society of Neurosurgical Anesthesia and Critical Care, San Diego, CA., Sept 19, 1997.
14. David J. Schneider, MD, Berlin, J.M., Bruno, A., Jacobs, C., and Segal, L.S.: "The Contribution of the Ossific Nucleus to the Mechanical Stiffness of the Capital Femoral Epiphysis. A Porcine Model for DDH. Eastern Orthopaedic Association 1997 Annual Meeting, Scottsdale, AR Oct 15-19, 1997, (**Awarded Founder's EOA Award**).

15. Segal, L.S., Berlin, J.M., Schneider, D.J., Bruno, A., and Jacobs, C.: The Contribution of the Ossific Nucleus to the Mechanical Stiffness of the Capital Femoral Epiphysis. A Porcine Model for DDH. Poster Exhibit. 1998 AAOS Annual Meeting, New Orleans, La., March 21, 1998.
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17. Segal, L.S., Berlin, J.M., Schneider, D.J., Moulton, M., Frauenhoffer, E: Injury to the Capital Femoral Epiphysis in Growing Rabbits. An Animal Model for the Protective Role of the Ossific Nucleus in DDH. Poster Exhibit. 1999 AAOS Annual Meeting, Anaheim, CA, Feb.5, 1999.
18. Segal, L.S., Reighard, C.T.: Subtrochanteric Valgus Osteotomy and Femoral Head Resection for Chronic Painful Dislocated Hips in Patients with Cerebral Palsy. Pediatric Orthopaedic Society of North America, Annual Meeting, Lake Buena Vista, FL, May 19, 1999.
19. Segal, L.S.: Custom 95° Condylar Blade Plate for Pediatric Subtrochanteric Femur Fractures. Poster Exhibit. Pediatric Orthopaedic Society of North America Meeting, Lake Buena Vista, FL, May 17-19, 1999.
20. Segal, L.S., Wallach, D.M., Kanev, P.M.: Complications with Intrathecal Baclofen Infusion and Posterior Spine Fusion in Patients with Cerebral Palsy. Poster Exhibit. Pediatric Orthopaedic Society of North America, Annual Meeting, Vancouver, BC, May 1-4, 2000.
21. Reighard, CR, Polomano RC, Haack M, Wallach DM, Segal, L.S.: Analysis of pain and satisfaction with pain care in postoperative pediatric orthopaedic patients. A Preliminary Report. Poster Exhibit. Pediatric Orthopaedic Society of North America, Annual Meeting, Cancun, Mexico, May 2-5, 2001.
22. Sponseller PD, Herring JA, Segal L.S., Alman BA, Mardjetko SM (SRS Etiology Committee): Etiology of spine deformity: Progress update. Poster Exhibit. Scoliosis Research Society, 37<sup>th</sup> Annual Meeting, Seattle, WA, September 18-21, 2002.
23. Segal L.S., Jacobson J, Saunders MM, Wallach DM: Biomechanical analysis of in situ single screw versus double screw fixation in a non-reduced slipped capital femoral epiphysis model. Poster Exhibit. Pediatric Orthopaedic Society of North America, Annual Meeting, Amelia Island, Florida, May 1-4, 2003.
24. Segal, L.S.: Debate: 7 month-old DDH and no ossific nucleus – Immediate Closed Reduction. Pediatric Specialty Day, American Academy of Orthopaedic Surgery Annual Meeting, March 13, 2004.
25. Cheung EV, Guille JT, Betz RR, Mulcahey MJ, D’Andrea LP, Cerrone J, Robert M. Campbell, Jr RM, Johnston C, Lubicky JP, Segal L.S., Moreland MS: The Natural History and Results of Surgical Treatment of Patients with Fused Ribs and Congenital Scoliosis. Scoliosis Research Society, Annual Meeting, Buenos Aires, Argentina, Sept, 2004.
26. Segal L.S., Jacobson J, Saunders MM. Biomechanical analysis of one vs two screw fixation in non-reduced slipped capital femoral epiphysis. Poster Exhibit. Annals of Biomedical Engineering, Biomedical Engineering Society 2004 Annual Fall Meeting, Philadelphia, PA, Oct 16, 2004.
27. Herrera-Soto JA, Segal L.S., Norman Ramirez-Lluch N, Tamai J: The musculoskeletal manifestations of the Coffin-Lowry syndrome: A multicenter study. E-poster presentation. (2005 POSNA, Ottawa, Canada, May 13-15, 2005.
28. Rinkus KM, Wallach DM, Segal L.S.: Isola-Galveston vs. pedicle screw only constructs for correction of pediatric neuromuscular scoliosis., IMAST, Banff, BC, July 7-10, 2005.

29. Rinkus KM, Wallach DM, Segal LS: Pedicle screw only constructs for correction of pediatric neuromuscular scoliosis. E-Poster, Scoliosis Research Society, Miami, Florida, Oct 25-27, 2005.
30. Segal LS: An elective research year in orthopaedic residency: what is the impact?" ABJS Carl T. Brighton Workshop on Orthopaedic Education. Tampa, Fla, Nov 11, 2005.
31. Saunders MM, Segal LS: Development of an Orthopaedic-based post-baccalaureate credit certificate program in academic medicine. Poster: Lilly-East Conference on College and University Teaching. Newark, Delaware. April 7, 2006
32. Segal LS, Jacobson J, Saunders, MM. Biomechanical analysis of one vs. two screw fixation in non-reduced slipped capital femoral epiphysis. 54<sup>th</sup> Annual Meeting of the Association of Southern German Orthopaedic Surgeons, Baden-Baden, Germany. April 28, 2006.
33. Segal LS, Black KP Pellegrini VD: "An elective research year in orthopaedic residency: what is the impact?" **Special Emphasis Poster**. 119<sup>th</sup> Annual American Orthopaedic Association (AOA), San Antonio, TX, June 21, 2006.
34. Segal, LS: "The Management of Spinal Deformity in Patients with Spina Bifida," National Spina Bifida Association Conference, Atlanta, GA., June 23, 2006.
35. Rinkus KM, Wallach DM, Segal LS: Pedicle Screw-Only Constructs for Correction of Pediatric Neuromuscular Kyphosis. IMAST, Athens, Greece, July 7-10, 2006.
36. Segal LS: Management of chronic bone & joint infections. Sociedad Hondurena de Ortopedia y Traumatologia. San Pedro Sula, Honduras. April 25-27, 2007.
37. Segal LS: Slipped capital femoral epiphysis. Sociedad Hondurena de Ortopedia y Traumatologia. San Pedro Sula, Honduras. April 25-27, 2007.
38. Segal LS: VEPTR. Sociedad Hondurena de Ortopedia y Traumatologia. San Pedro Sula, Honduras. April 25-27, 2007.
39. Segal LS: The management of chronic osteomyelitis. Sociedad Hondurena de Ortopedia y Traumatologia. San Pedro Sula, Honduras. April 25-27, 2007
40. Segal LS, Quintero AJ, Black KP: The Myers-Briggs Inventory (MBTI) in the selection of orthopaedic residents. **Special Emphasis Poster**. 120<sup>th</sup> AOA Annual Meeting, Asheville, NC. June 15, 2007.
41. Bryce C, Black KP, Chinchilli VM, Segal LS: Evaluation of core competencies in applicants to orthopaedic residency programs. **Special Emphasis Poster**. 120<sup>th</sup> AOA Annual Meeting, Asheville, NC. June 15, 2007.
42. Segal, LS: The Management of Spinal Deformity in Patients with Spina Bifida, National Spina Bifida Association Conference, Louisville, KY., June 23, 2007.
43. Herrera-Soto J, Segal LS, Cummings J: The spinal deformity in patients with the Coffin-Lowry Syndrome. E-Poster. 14th IMAST Meeting, Paradise Island, Bahamas, July 11-14, 2007.
44. Segal LS, Stauff M: Burst fractures of the spine in children and adolescents. AAOS 2008 Annual Meeting, March 6, 2008 in San Francisco, CA.
45. Segal LS, Crandall RC: Tibia vara deformity after below-knee amputation and tibiofibular synostosis formation in children. POSNA 2008 Annual Meeting,, Albuquerque, NM. March 1, 2008

46. Vanderhave KL, Stauff, M, Segal, LS: Burst fractures of the spine in children and adolescents. POSNA 2008 Annual Meeting, Albuquerque, NM, March 1, 2008
47. Segal, LS: "The Management of Spinal Deformity in Patients with Spina Bifida," National Spina Bifida Association Conference, Tucson, AZ, June 22, 2008.
48. Bryce C, Black KP, Chinchilli VM, Segal LS: Attrition rate among orthopaedic residents. Poster presentation. 121<sup>st</sup> AOA Annual Meeting, Quebec City, Canada. June 24, 2008.
49. Martell JM, Mangla J, Ellis R, Atada A, Sullivan CM, Bielski RJ, Segal LS: A Novel Biomechanical Method to assess the risk for slipped capital femoral epiphysis in children. (Orthopaedic Research Society (ORS) 2009 Annual Meeting, Feb 23-25, Las Vegas, NV).
50. Segal LS, Mangla J, Ellis R, Atada A, Sullivan CM, Bielski RJ, Martell JM: A Novel Biomechanical Method to assess the risk for slipped capital femoral epiphysis in children. E-Poster, POSNA 2009 Annual Meeting, April 30-March 3, Boston, MA).
51. Segal, LS: The Management of Spinal Deformity in Patients with Spina Bifida, National Spina Bifida Association Conference, Orlando, FL., July 1, 2009.
52. Segal LS: Intoeing and Bowlegs, and most other deformities not to worry about! Pediatric Update 2010 Scottsdale, AZ. March 3, 2010.
53. Shrader MW, Segal LS: Physician Evaluation of the PODCI Quality of Life Questionnaire. E-Poster, EPOS Annual Meeting. Zagreb, Croatia, April 7-10, 2010.
54. Chien MT, Bulloch BR, Garcia-Fillon P, Shrader MW, Youssfi M, Segal LS: Ultrasound Diagnosis of Pediatric Clavicle Fractures. Poster presentation, 2010 Pediatric Academic Societies' Annual Meeting, May 1-4, 2010, in Vancouver, BC, Canada, May 1-4, 2010.
55. Segal LS, Martell JM, Mangla J, Ellis R, Atada A, Sullivan CM, Bielski RJ: A Novel Biomechanical Method to assess the risk for slipped capital femoral epiphysis in children. **Special Emphasis Poster**. 123<sup>rd</sup> AOA Annual Meeting, San Diego, CA. June 6, 2010.
56. Segal, LS: The Management of Spinal Deformity in Patients with Spina Bifida, National Spina Bifida Association Conference, Cincinnati, OH, June 30, 2010.
57. Shrader MW, Bernat N, Segal LS: Insurance Status: Significant Risk Factors for Non-Accidental Trauma & Pediatric Femur Fractures. AAOS 2011 Annual Meeting, San Diego, CA., March 17, 2011.
58. Shrader MW, Ho, A, Segal LS: Diagnosis and Initial Management of Musculoskeletal Coccidiomycosis in Children, **Award Poster Presentation**. POSNA 2011 Annual Meeting, May 11-14, 2011, Montreal, Canada.
59. Segal, LS: The lower extremity in spina bifida: current treatment recommendations, National Spina Bifida Association Conference, Anaheim, CA, June 27, 2011.
60. Shrader MW, Segal LS: Diagnosis and Initial Management of Musculoskeletal Coccidiomycosis in Children, Western Orthopaedic Association 2011 Annual Meeting, July 27-30, 2011, Honolulu, Hawaii.
61. Shrader MW, Jones JS, Cotugno R, Nowlin M, Burk DR, Segal LS: Concerns about assessment of postoperative pain in children with cerebral palsy? Are we under-treating pain in these children? Western Orthopaedic Association. 2011 Annual Meeting, July 27-30, 2011, Honolulu, Hawaii.

62. Segal LS: Pediatric hip disorders. Sociedad Hondurena de Ortopedia y Traumatologia. San Pedro Sula, Honduras. September 22-24, 2011.
63. Segal LS: Management of pediatric femur fractures. Sociedad Hondurena de Ortopedia y Traumatologia. San Pedro Sula, Honduras. September 22-24, 2011
64. Segal LS: Management of pediatric limb deformities. Sociedad Hondurena de Ortopedia y Traumatologia. San Pedro Sula, Honduras. September 22-24, 2011
65. Shrader MW, Segal LS: Spine Radiographs for Neuromuscular Scoliosis: A Role for a Seating Device for Dependent Sitters. Poster presentation. AACPDM 65th Annual Meeting, October 12-15, 2011, Las Vegas, NV.

**PRESENTATIONS TO LOCAL AND REGIONAL MEETINGS:**

1. "Carpal Instability," General Surgery Grand Rounds, Southern Illinois University School of Medicine, Springfield, Ill., October, 1985.
2. "Surgical Management of Soft-Tissue Sarcomas," General Surgery Grand Rounds, Southern Illinois University School of Medicine, Springfield, Ill., March, 1986.
3. "Non-Unions of the Atlas," Illinois Orthopaedic Society, Springfield, Ill., September, 1986.
4. "Equinovarus Deformity in Arthrogyposis and Myelomeningocele. Evaluation of Primary Talectomy," Resident's Day, Rancho Los Amigos Medical Center, Downey, Cal., Dec., 1987.
5. "Functional Subtypes in Spastic Diplegia. A Preliminary Report," 5th Annual Visiting Professor Lectureship, Division of Orthopaedic Surgery and Rehabilitation, Southern Illinois University School of Medicine, Springfield, Ill., May, 1988.
6. "Emergency Treatment of Pelvic Fractures," General Surgery Grand Rounds, Southern Illinois University School of Medicine, Springfield, Ill., May, 1988.
7. "Total Hip Arthroplasty in the Renal Transplant Patient. A Long Term Follow Up Study," General Surgery Grand Rounds, Southern Illinois University School of Medicine, Springfield, Ill., Oct. 1988.
8. "The Child with a Limp," Central Illinois Chapter of the American Association for Medical Transcriptionists, Springfield, Ill., Nov. 1988.
9. "Slipped Capital Femoral Epiphysis," Intensive Clinical Orthopaedic Review Course, Atlantic City, N.J., June 21, 1990.
10. "Pediatric Bone and Joint Infection," Intensive Clinical Orthopaedic Review Course, Atlantic City, N.J., June 21, 1990.
11. "Complications of Cervical Spine Fusion in Down Syndrome," Pennsylvania Orthopaedic Society, Pittsburgh, Pa. Nov. 1990.
12. "The Evolution of Scoliosis Management," General Surgery Grand Rounds, The Milton S. Hershey Medical Center, Hershey, Pa., December 3, 1990.
13. "The Orthopaedic Management of the Child with Down Syndrome," Down Syndrome Association of Central Pennsylvania. Down in Chocolatetown., Hershey, Pa., October 3, 1991.

14. "The Ilizarov Technique," General Surgery Grand Rounds, The Milton S. Hershey Medical Center, Hershey, Pa. October 11, 1991.
15. "Limb Length Discrepancy and the Ilizarov Technique," Pediatric Grand Rounds, The Milton S. Hershey Medical Center, Hershey, Pa., March 8, 1992.
16. "Orthopaedic Injuries in Children," Pediatric Trauma Update, The Milton S. Hershey Medical Center, Hershey, Pa., Oct. 2, 1993.
17. "The Anatomy and Clinical Correlation of the Vertebral Column," Gross Anatomy Course, The Pennsylvania State University College of Medicine, Hershey, Pa., October 19, 1993.
18. "Slipped Capital Femoral Epiphysis," Orthopaedic Surgery Grand Rounds, Hahnemann University School of Medicine, Philadelphia, Pa. March 14, 1994.
19. "The Present Management of Scoliosis," Neurosurgery Grand Rounds, The Milton S. Hershey Medical Center, Hershey, Pa., April 2, 1994.
20. "Complications in the Treatment of Slipped Capital Femoral Epiphysis," Department of Orthopaedics and Rehabilitation Grand Rounds, The Milton S. Hershey Medical Center, Hershey, Pa., April 7, 1994.
21. "Angular and Torsional Deformities in Childhood," 3rd Annual Pediatric Referral Dinner, The Pennsylvania State University College of Medicine, Hilton Harrisburg and Towers, Harrisburg, Pa., April 3, 1994.
22. "Avascular Necrosis Following the Treatment of DDH: The Protective Influence of the Ossific Nucleus," 5th Annual James L. Buchanan Visiting Professor Day, Department of Orthopaedics and Rehabilitation, The Pennsylvania State University College of Medicine, Hershey, Pa., May, 1994.
23. "Osteotomies in Children," Post-Anesthesia Care Nursing In-Service, The Milton S. Hershey Medical Center, Hershey, Pa., Dec. 14, 1994.
24. "Spinal Instrumentation," Anesthesia Grand Rounds, Milton S. Hershey Medical Center, March 1, 1995.
25. "Pediatric Sports Related Injuries." Orthopaedic Surgery Grand Rounds, Centre Community Hospital, State College, Pa., April 26, 1995.
26. "Posterior Spine Fusion to L5 and Assessment of Pelvic Obliquity in Patients with Cerebral Palsy," 6th Annual James L. Buchanan Visiting Professor Day, Department of Orthopaedics and Rehabilitation, The Pennsylvania State University College of Medicine, Hershey, Pa., June 7, 1995.
27. "Pediatric Orthopaedics," Pediatric Review Course, Hershey Medical Center, Milton S. Hershey, Pa. September 9, 1995.
28. "Neonatal Orthopaedics," Neonatal Nursing Grand Rounds, November 2, 1995.
29. "Pelvic Obliquity in Neuromuscular Scoliosis," Orthopaedic Surgery Grand Rounds, Hershey Medical Center, Hershey, Pa., Dec. 20, 1995.
30. "Rotational and Angular Deformities in Children," CME Grand Rounds, Soldiers and Sailors Memorial Hospital, Wellsboro, Pa., June 19, 1996.
31. "Scoliosis Update - 1996," Pennsylvania Chiropractic Society 1996 Annual Convention. Hershey Lodge and Convention Center, Hershey, Pa. Sept. 29, 1996.

32. "Common Orthopaedic Problems in the Newborn," Neonatal Nurse Practitioner Program, Milton S. Hershey Medical Center, Hershey, Pa. Oct. 31, 1996.
33. "Leg Pain in Children," Current Concepts in Family Medicine, Milton S. Hershey Medical Center, Hershey, Pa., Nov. 19, 1996.
34. "Angular and Rotational Deformities in Childhood," 5th Annual Pediatric Update, Centre Community Hospital, State College, Pa., Dec. 4, 1996.
35. "Controversies in Developmental Dysplasia of the Hip," Orthopaedic Grand Rounds, Department of Orthopaedics and Rehabilitation, Milton S. Hershey Medical Center, Dec. 5, 1996.
36. "Fractures and Dislocations of the Elbow in Children: Classification and Treatment," Lehigh Valley Hospital Regional Symposium: Orthopaedic Update: Elbow and the Wrist: A Primary Care Approach. Allentown, Pa., Dec. 7, 1996.
37. "Pediatric Osteotomies" Orthopaedic Grand Rounds, Department of Orthopaedics and Rehabilitation, Milton S. Hershey Medical Center, January 13, 1997.
38. "Hip Pain in the Pediatric Patient," 1st Annual Orthopaedic Program for Primary Care Physicians" Hershey Lodge and Convention Center, Hershey, Pa., May 9, 1997.
39. "Operative Management of the Spinal Deformity Patient," AO/ASIF Spine Course for Operating Room Personnel, Hershey Lodge and Convention Center, Hershey, Pa., May 31, 1997.
40. "Complications of Pediatric Extremity Fractures," Trauma Grand Rounds, Milton S. Hershey Medical Center, June 26, 1997.
41. "Evaluation of the Child with a Limp," Family Practice Grand Rounds, York Hospital, York, Pa., Oct. 23, 1997.
42. "Common Orthopaedic Problems in the Newborn," Neonatal Nurse Practitioner Program, Milton S. Hershey Medical Center, Hershey, Pa. Oct. 23, 1997.
43. "Management of Idiopathic Scoliosis," Department of Anesthesia Resident's Conference, Milton S. Hershey Medical Center, Nov. 5, 1997.
44. "Complications of Orthopaedic Injuries in Children," General Surgery Grand Rounds, York Hospital, York, Pa., Nov 20, 1997.
45. "Intra-operative Assessment of Vertebral Screw Placement with Electromyography in a Porcine Model," Isola Study Group, New York, NY, Nov. 21, 1997.
46. "Pathogenesis of Chondronecrosis: Role of the Hypertrophic Chondrocyte," "Research Proposal, Musculoskeletal Research Lab, Dept. of Orthopaedics and Rehabilitation, Milton S. Hershey Medical Center, April 17, 1998.
47. "Pediatric Femur Fractures," Dept. of Orthopaedics and Rehabilitation Grand Rounds, Milton S. Hershey Medical Center, June 4, 1998.
48. "Chondronecrosis. An Animal Model for the Protective Role of the Ossific Nucleus in DDH," 9th Annual James L. Buchanan Visiting Professor Day, Department of Orthopaedics and Rehabilitation, The Milton S. Hershey Medical Center, Pennsylvania State University College of Medicine, Hershey, Pa., June 26, 1998.

49. "Slipped Capital Femoral Epiphysis. Management Update in 1998," 12<sup>th</sup> Annual Mimi Covert Visiting Professor Lecture, Division of Orthopaedics and Rehabilitation, Southern Illinois University School of Medicine, Springfield, Ill., Oct. 9, 1998.
50. "Pelvic Obliquity in Neuromuscular Scoliosis," 12<sup>th</sup> Annual Mimi Covert Visiting Professor Lecture, Division of Orthopaedics and Rehabilitation, Southern Illinois University School of Medicine, Springfield, Ill., Oct. 9, 1998.
51. "Controversies in Developmental Dysplasia of the Hip," Division of Orthopaedics and Rehabilitation Grand Rounds, Southern Illinois University School of Medicine, Springfield, Ill., Oct. 10, 1998.
52. "Common Orthopaedic Problems in the Newborn," Neonatal Nurse Practitioner Program, Milton S. Hershey Medical Center, Hershey, Pa., Oct. 22, 1998.
53. "Slipped Capital Femoral Epiphysis. Newer concepts in classification and treatment," Orthopaedic Grand Rounds, Bethlehem, Pa. March 19, 1999.
54. "Outcomes Research in Scoliosis," 1999 Scoliosis Symposium, The Scoliosis Association. Falls Church, Va., March 27, 1999.
55. "The Evaluation and Treatment of Idiopathic Scoliosis" South Central Pennsylvania Physical Therapy Association Meeting, Milton S. Hershey Medical Center, Hershey, Pa. April 14, 1999.
56. "Missed Fractures in the Pediatric Polytrauma Patient," Combined Department of Orthopaedics and Rehabilitation and of Surgery Grand Rounds, Milton S. Hershey Medical Center, May 27, 1999.
57. "The Management of Spinal Deformity in Patients with Spina Bifida," National Spina Bifida Association Conference, Hershey Lodge and Convention Center, Hershey, Pa., June 28, 1999.
58. "Common Orthopaedic Problems in the Newborn," Neonatal Nurse Practitioner Program, Milton S. Hershey Medical Center, Hershey, Pa. Oct. 28, 1999.
59. "New Approaches to Spasticity in Children. Orthopaedic Management of Cerebral Palsy," Department of Pediatrics Grand Rounds, Milton S. Hershey Medical Center, Hershey, Pa., Nov. 16, 1999.
60. "Mesenchymal Chondrosarcoma of the Spine – Case Presentation" Isola Advanced Pediatric Spine Seminar, Atlanta, Ga., April 2, 2000.
61. "Isola-Galveston Technique in Myelomeningocele," Isola Advanced Pediatric Spine Seminar, Atlanta, Ga., April 2, 2000.
62. "The Surgical Management of Adolescent Idiopathic Scoliosis," 2000 Scoliosis Symposium, The Scoliosis Association. Falls Church, Va., May 6, 2000.
63. "Spine Trauma in the Pediatric Patient" Combined Department of Orthopaedics and Rehabilitation and of Surgery Grand Rounds, Milton S. Hershey Medical Center, June 8, 2000.
64. "The Natural History of Pediatric Hip Disorders," Department of Orthopaedics and Rehabilitation Grand Rounds, Milton S. Hershey Medical Center, Dec. 21, 2000.
65. "Controversies in Developmental Dysplasia of the Hip," 34<sup>th</sup> Annual AOA Residents Conference, Hotel Hershey, Hershey, Pa., March 30, 2001.
66. "Orthopaedic Management of Children with Down Syndrome," Eastern Pennsylvania Down Syndrome Conference 2001, Lehigh Valley Hospital, Allentown, Pa., March 31, 2001.

67. "Clinical Decision Making for Lower Extremity Problems in Cerebral Palsy and Myelomeningocele," Pediatric Physical Therapy Special Interest Group, Milton S. Hershey Medical Center, May 22, 2001.
68. "Etiology of Adolescent Idiopathic Scoliosis," Hershey Scoliosis Symposium, The Scoliosis Association. Hershey Lodge and Convention Center, Hershey, Pa., June 2, 2001.
69. "The Evaluation and Management of Neuromuscular Scoliosis," Hershey Scoliosis Symposium, The Scoliosis Association. Hershey Lodge and Convention Center, Hershey, Pa., June 2, 2001.
70. "Common Orthopaedic Problems in the Newborn," Neonatal Nurse Practitioner Program, Milton S. Hershey Medical Center, Hershey, Pa. Nov. 8, 2001.
71. "Cerebral Palsy," Intermediate Unit Educational Program, Lancaster, Pa. February 15, 2002.
72. "Burst Fractures in Adolescents," 1<sup>st</sup> Annual CHOP Fellows Meeting, Philadelphia, Pa. April 5, 2002.
73. "Pediatric Pelvic Trauma," Pediatric Trauma Seminar, Inova Fairfax Hospital, Falls Church, Va. April 10, 2002.
74. "Pediatric Pelvic Fractures," Department of Orthopaedics and Rehabilitation Grand Rounds, Milton S. Hershey Medical Center, April 21, 2002.
75. "Pediatric Burst Fractures" Poster Exhibit, Inaugural Children's Hospital Research Day, Penn State Children's Hospital, Milton S. Hershey Medical Center, Hershey, Pa., May 30, 2002.
76. "Thoracic Insufficiency Syndrome," Department of Orthopaedics and Rehabilitation Grand Rounds, Hershey Medical Center, January 30, 2003.
77. "What's new in the orthopaedic care of spina bifida," Pennsylvania Spina Bifida Conference, Harrisburg-Hershey Marriot, April 13, 2003.
78. "Thoracic Insufficiency Syndrome," Department of Pediatrics Grand Rounds, Milton S. Hershey Medical Center, October 14, 2003.
79. "Sleep deprivation in medical training: Physician, heal thyself" Department of Orthopaedics and Rehabilitation Grand Rounds, Milton S. Hershey Medical Center, January 28, 2004.
80. "Caring for children overseas: 3<sup>rd</sup> world pediatric orthopaedics," Annual Meeting, L.C.C.C.S. Children's Developmental Center, Williamsport, Pa., March 23, 2004.
81. "Current Concepts in the Management of Pediatric Femur Fractures," Department of Orthopaedics Grand Rounds, Harrisburg Hospital, Harrisburg, PA., March 25, 2004.
82. "Sleep deprivation in medical training: Physician, heal thyself" ACGME Core Competency Series for Faculty and Residents, Milton S. Hershey Medical Center, April 1, 2004.
83. "Orthopaedic Management of Children with Down Syndrome," Eastern Pennsylvania Down Syndrome Conference 2004, Lehigh Valley Hospital, Allentown, Pa., April 3, 2004.
84. "Biomechanical analysis of in-situ single versus double screw fixation in a non-reduced slipped capital femoral epiphysis model," Poster Exhibit, Children's Hospital Pediatric Research Day, Penn State Children's Hospital, Milton S. Hershey Medical Center, Hershey, Pa., June 3, 2004.
85. "Burst fractures in children and adolescents". Poster Exhibit. Stauff, M, Segal LS 9<sup>th</sup> Annual Penn State Trauma Symposium. Grantville, Pa. September 17, 2004.

86. "Sleep deprivation in medical training: Physician, heal thyself" Department of Orthopaedics Grand Rounds, University of Chicago, Chicago, Illinois, November 17, 2004.
87. "Sleep deprivation in medical training" Department of Orthopaedics Grand Rounds, Harrisburg Hospital, Harrisburg, PA, January 27, 2005.
88. "Chronic osteomyelitis. A 3<sup>rd</sup> world perspective," Department of Orthopaedics and Rehabilitation Grand Rounds, Milton S. Hershey Medical Center, March 17, 2005.
89. "Sleep deprivation in medical training: Physician, heal thyself" Department of Pediatrics Grand Rounds, York Hospital, York, PA, April 20, 2005.
90. "VEPTR instrumentation for thoracic insufficiency syndrome." Touching the future lives of children Conference, Harrisburg-Hershey Wyndham Hotel, Harrisburg, Pa., November 8, 2005.
91. "Pediatric Orthopaedic update 2005: Current controversies, evaluation, and treatment for the primary care physician." State College, Pa. November 30, 2005.
92. "Analysis and prevention of missed musculoskeletal injuries in pediatric polytrauma patients," Department of Orthopaedics and Rehabilitation Grand Rounds, Milton S. Hershey Medical Center, March 29, 2006.
93. "The Impact of an Elective Research year in Orthopaedic Residency" Poster Exhibit, Children's Hospital Pediatric Research Day, Penn State Children's Hospital, Milton S. Hershey Medical Center, Hershey, Pa., June 1, 2006.
94. "An elective research year in orthopaedic residency: How Does One Measure its Outcome and Define its Success?" ASEAN fellows conference. Department of Orthopaedics and Rehabilitation Penn State Hershey Medical Center, June 8, 2006.
95. "Complex pediatric fractures" 11<sup>th</sup> Annual Penn State Trauma Symposium, Grantville, Pa., September 15, 2006.
96. "Spine anatomy; clinical correlation" Structural basis of medical practice course (SBMP 715), Medical student lecture, The Pennsylvania State University College of Medicine, October 5, 2006.
97. "Thoracic insufficiency syndrome and VEPTR," Abrams Memorial Lecture, University of Maryland, Kernan Hospital, Baltimore MD, October 9, 2006.
98. "Scoliosis Screening Program – Status 2006/2007," Schuylkill County School Nurse Association, Pottsville, Pa., December 4, 2006.
99. "Thoracic insufficiency syndrome and VEPTR," Operating Room In-Service. Penn State Hershey Medical Center, December 7, 2006.
100. "Thoracic insufficiency syndrome and VEPTR," Department of Pediatrics Grand Rounds. Penn State Hershey Medical Center, January 28, 2007
101. "Complex fractures in children," Department of Orthopaedics and Rehabilitation Grand Rounds, Penn State Hershey Medical Center, February 8, 2007.
102. "DDH and the role of the secondary center of ossification," Millar Presentation, Chicago Shriner's Unit, Chicago, Ill., May 11, 2007.
103. "Missed fractures in pediatric trauma patients" East Valley Pediatric Society, Mesa, AZ, October 9, 2007.

104. "Missed fractures in pediatric trauma patients," Banner Good Samaritan Orthopaedic Grand Rounds, Phoenix, AZ, Oct. 24, 2007.
105. "Radiographic interpretation of pediatric musculoskeletal injuries," Family Nurse Practitioner Program, Arizona State University, Tempe, AZ., Dec. 4, 2007.
106. "Thoracic insufficiency syndrome and VEPTR," Pediatric Grand Rounds, Phoenix Children's Hospital, Phoenix, AZ, January 22, 2008.
107. "Motion preservation in scoliosis surgery," Banner Good Samaritan Orthopaedic Grand Rounds, Phoenix, AZ, Feb. 13, 2008.
108. "Management of physeal fractures" Arizona State University Primary Care Sports Medicine, Tempe, AZ, February 27, 2008.
109. "Motion preservation in spinal deformity," American College of Genetics Scoliosis Symposium, The University of Arizona College of Medicine, Phoenix AZ, March 15, 2008.
110. "The five patients you meet in your waiting room," PCH Outreach CME Dinner Series, Phoenix, AZ, April 17, 2008; April 24, 2008; May 5, 2008.
111. "Clinical Relevance of MSK basic science: Transitioning from the classroom to the clinic" The University of Arizona College of Medicine, Phoenix, AZ, MS I MSK block, May 5, 2008.
112. "Early onset scoliosis" The University of Arizona College of Medicine, Phoenix, AZ, MS I MSK block, May 8, 2008.
113. "Living with a chronic disease: Osteogenesis imperfecta," The University of Arizona College of Medicine, Phoenix, AZ, MS I MSK block, May 9, 2008.
114. "Child with a limp, hip injury" The University of Arizona College of Medicine, Phoenix, AZ, MS I MSK block, May 20, 2008.
115. "Orthopaedic Management of Children with Down Syndrome," The Down Syndrome Network, Mesa, AZ., June 4, 2008.
116. "Pediatric orthopaedic trauma update 2008," Phoenix Children's Hospital, Phoenix, AZ, June 9, 2008.
117. "Controversies in the management of SCFE," Visiting Professor Lecture, Department of Orthopaedics, Albert Einstein Medical Center, Philadelphia, Pa. June 13, 2008.
118. "Thoracic insufficiency syndrome and VEPTR," Pediatric Grand Rounds, Akron Children's Hospital, Akron, OH, July 25, 2008.
119. "Controversies in the management of SCFE," Visiting Professor, Department of Pediatric Orthopaedic Surgery, Akron Children's Hospital, Akron, OH, July 25, 2008.
120. "DDH and the role of the secondary center of ossification," Grand Rounds, Visiting Professor, Department of Pediatric Orthopaedic Surgery, Akron Children's Hospital, Akron, OH, July 26, 2008.
121. "External Fixation of Pediatric Femur Fractures," Southwest Orthopaedic Trauma Association (SWOTA), Banner Good Samaritan Hospital, Phoenix, Arizona, Sept 12, 2008.
122. "Orthopaedic Management of Cerebral Palsy." Barrows Pediatric Neurosciences Symposium, St. Joseph's Medical Center, Phoenix, AZ., Nov 14, 2008.

123. "Management of Clubfoot deformities- 2009," Scottsdale Shea Pediatrics Grand Rounds, Scottsdale, AZ, March 3, 2009.
124. "Clinical Relevance of MSK basic science: Transitioning from the classroom to the 3<sup>rd</sup> world" The University of Arizona College of Medicine, Phoenix, AZ, MS I MSK block, April 27, 2009.
125. "Clubfeet – The Ponseti "Revolution," Pediatric Orthopaedic Update for Primary Care Physicians, Phoenix Children's Hospital, Phoenix, AZ, May 15, 2009.
126. "Down Syndrome and Special Olympics" Down syndrome: Recent Advances in Medical Treatment Seminar, Phoenix Children's Hospital, Phoenix, AZ, May 30, 2009.
127. "Trauma to the pediatric axial skeleton," Pediatric Trauma Grand Rounds, Phoenix Children's Hospital, Phoenix, AZ, August 11, 2009.
128. "Pediatric Fractures," PGY-II course, Southwest Orthopaedic Trauma Association (SWOTA), Phoenix, AZ, Sept 20, 2009.
129. "Pediatric Femur Fractures," Southwest Orthopaedic Trauma Association (SWOTA), Phoenix, AZ, Sept 20, 2009.
130. "Neonatal Orthopaedics," Neonatal Grand Rounds, St Joseph Hospital, Phoenix, AZ, September 21, 2009.
131. "The Limping Child," Physician Assistant Orthopaedic Conference, Phoenix, AZ, October 23, 2009.
132. "Traumatic Orthopaedic Emergencies" APLS conference, Phoenix Children's Hospital, Phoenix, AZ Nov. 15, 2009.
133. "Spondylolysis and Spondylolisthesis," Winter Conference, Carrie Tingley Hospital, Albuquerque, NM. January 29, 2010.
134. "DDH and the role of the secondary center of ossification," Winter Conference, Carrie Tingley Hospital, Albuquerque, NM. January 29, 2010.
135. "Management of Neuromuscular Scoliosis," Winter Conference, Carrie Tingley Hospital, Albuquerque, NM. January 29, 2010.
136. "Myelomeningocele and Physical Therapy": Physical Therapy Conference, Franklin Pierce University Physical Therapy School, Goodyear, AZ, February 16, 2010.
137. "Clinical Relevance of MSK basic science: Transitioning from the classroom to the 3<sup>rd</sup> world" The University of Arizona College of Medicine, Phoenix, AZ, MS I MSK block, April 26, 2010.
138. "Scoliosis" The University of Arizona College of Medicine, Phoenix, AZ, MS I MSK block, April 28, 2010.
139. "Living with a chronic disease: Osteogenesis imperfecta" The University of Arizona College of Medicine, Phoenix, AZ, MS I MSK block, April 29, 2010.
140. "Sleep deprivation and resident fatigue," Banner Good Samaritan Orthopaedic Grand Rounds, Phoenix, AZ, June. 13, 2010.
141. "Duty hours, fatigue and sleep deprivation," Phoenix Children's Hospital Fellow Orientation, Phoenix Children's Hospital, Phoenix, AZ, July 6, 2010.

142. "Pediatric Fractures," PGY-II course, Southwest Orthopaedic Trauma Association (SWOTA), Phoenix, AZ, September 20, 2010.
143. "Decision making in cerebral palsy," Arizona APTA Fall Meeting. Phoenix, AZ, Oct. 2, 2010.
144. "Complications in cerebral palsy," Arizona APTA Fall Meeting. Phoenix, AZ, Oct. 2, 2010
145. "The top 5 orthopaedic procedures in cerebral palsy," Arizona APTA Fall Meeting. Phoenix, AZ, Oct. 2, 2010.
146. "Will my child walk?" Arizona APTA Fall Meeting. Phoenix, AZ, Oct. 2, 2010.
147. "Decision making in myelomeningocele. An orthopaedic perspective" Arizona APTA Fall Meeting. Phoenix, AZ, Oct. 2, 2010.
148. "Management of neuromuscular scoliosis," Arizona APTA Fall Meeting. Phoenix, AZ, Oct. 2, 2010.
149. "Osteogenesis Imperfecta," Endocrinology Grand Rounds, Phoenix Children's Hospital, Phoenix, AZ., Jan. 5, 2011.
150. "Screening in Pediatric Orthopaedics," Indian Health Service, Tuba City, AZ, April 15, 2011.
151. "Clinical Relevance of MSK basic science: Transitioning from the classroom to the 3<sup>rd</sup> world" The University of Arizona College of Medicine, Phoenix, AZ, MS I MSK block, April 26, 2011.
152. "Scoliosis" The University of Arizona College of Medicine, Phoenix, AZ, MS I MSK block, April 28, 2011.
153. "Living with a chronic disease: Osteogenesis imperfecta" The University of Arizona College of Medicine, Phoenix, AZ, MS I MSK block, April 29, 2011.
154. "Screening in Pediatric Orthopaedics," Pediatric Grand Rounds, Phoenix Children's Hospital, Phoenix, AZ., May 5, 2011.

#### **WEBINAIRES**

1. Intoeing and Bowlegs, and most other deformities not to worry about! Phoenix Children's Hospital CME Office, Phoenix, AZ. February 19, 2010.

#### **RESEARCH SUPPORT / GRANTS:**

1. Acromed Corporation. "Isola-Galveston Technique for the Treatment of Neuromuscular Scoliosis. Evaluation of Pelvic Obliquity in the Transverse Plane." Principal Investigator: Segal, LS.; Co-Investigators: Egli, K., and Schwentker, EP. \$4999, 1995.
2. Children's Miracle Network Research Grant. "The Protective Influence of the Ossific Nucleus. An Animal and Biomechanical Model." Principal Investigator: Segal, LS.; Co-Investigators: Moulton, M., Bruno, A., Jacobs, C. \$9736, 1995.
3. Children's Miracle Network Grant. "Scoliosis brochures and videotape for patient education" Co-sponsors: Reighard, CT, and Segal LS. \$2800.

4. Orthopaedic Research Initiation Grant, Department of Orthopaedics and Rehabilitation , Pennsylvania State University College of Medicine, “Evaluation of Hypertrophic Chondrocyte Injury in Chondronecrosis”. Principal Investigator: Segal, LS; Co-investigators: Rumi M, Chen C. (Submitted 2/99, \$15,000)

Updated: May 16, 2011