Karl E. Rathjen, M.D.

Editorial Positions

Associate Editor, *Clinical Orthopaedics and Related Research*, 2008 – Present
Consultant Reviewer, *Journal of Pediatric Orthopaedics*, 2009-Present
Consultant Reviewer, *Spine*, 2010-Present
Member Orthopaedic Working Group:
U.S. News and World Report 2010 America's Best Children's Hospitals
U.S. News and World Report 2011 America's Best Children's Hospitals
U.S. News and World Report 2012 America's Best Children's Hospitals
U.S. News and World Report 2013 America's Best Children's Hospitals

Books

Rathjen, KE, McIntosh, AL "Pediatric Trauma: Pelvis and Hip": In: Flynn, John (ed); *Orthopaedic Knowledge Update 10, AAOS, 2011, pp 727-737.*

Rathjen, KE, Saran, N "Treatment of Limb-Length Discrepancy with Epiphysiodesis": In: Hamdy, R. (ed); *Management of Limb-Length Discrepancies*, Monograph Series 45. AAOS, *2011, pp 27-31.*

Rathjen, KE "Torsional and angular deformities", In: Sydor, Anne (ed.); Rudolph's Pediatrics, 22nd Edition, McGraw-Hill, New York, NY, The Musculoskeletal System, pp 842-845.

K.E. Rathjen, J.G. Birch: "Physeal Injuries and Growth Disturbances", Rockwood and Wilkins' Fractures in Children, 7th edition, J.JH. Beaty and J.R. Kasser (eds.), J.M. Flynn, D.L. Skaggs, P.M. Waters (assoc. eds.), Wolters Kluwer, Lippincott Williams and Williams, Philadelphia, PA, 2010, PP 91-119.

Saran, N.; Rathjen, KE "Treatment Options for LLD:Epiphysiodesis": In: Hamdy,R(ed); *Management of Limb-Length Discrepancy*, AAOS Monograph. *(In press).*

Rathjen, KE "Torsional and angular deformities", In: Sydor, Anne (ed.); Rudolph's Pediatrics, 22nd Edition, McGraw-Hill, New York, NY, *(In press).*

Rathjen, KE "Fractures of the Distal Humerus": In: Scherl, SA (ed); *Operative Management of Pediatric Long-Bone Fractures*, Monograph Series 40. AAOS, 2009, pp 15-32.

Rathjen, KE (contributing author): In: Herring JA (ed); *Tachdjian's Pediatric Orthopedics, 4th edition*. Philadelphia, WB Saunders, 2007.

Rathjen, KE, Birch JB. "Physeal Injuries and Growth Disturbances." In: Beaty, JH and Kasser, JR (ed); *Fractures in Children, 6th edition*. Philadelphia, Lippincott Williams & Wilkins, 2006, pp 99-131.

Rathjen, KE (contributing author): In: Herring JA (ed); *Tachdjian's Pediatric Orthopedics, 3rd edition*. Philadelphia, WB Saunders, 2001.

Journal Articles

Zhang W, Richards BS, Faulks ST, Karol LA, Rathjen KE, Browne RH. Initial Severity Rating of Idiopathic Clubfeet is an Outcome Predictor at Age Two Years. *J Ped Ortho Part B* 2012, 21(1):16-9. **PMID: 21934632**

Fletcher ND, McClung A, Rathjen KE, Denning, JR, Johnston CE. Serial Casting as a Delay tactic in the Treatment of Moderate-to-Severe Early Onset Scoliosis. *J Pediatr Ortho* 2012, 32(7):664-71. **PMID: 22955528**

Martus, JE, Griffith TE, Dear JC, Rathjen KE. Pediatric Cervical Kyphosis: A Comparison of Arthrodesis Techniques. *Spine* 2011, 36(17): E1145-E53. PMID: 21343865

Garg, S. Oetgen M. Rathjen K. Richards BS. Kyphectomy Improves Sitting and Skin Problems in Patients with Myelomeningocele. *Clinical Orthopaedics and Related Research* 2011 May; 469(5):1279-85. **PMID: 21042894**

Fletcher, ND, Rathjen KE, Bush P, Ezaki, M. Asymmetrical Arthrogryposis of the Upper Extremity Associated With Congenital Spine Anomalies, *J Ped Ortho*. 2010 December 30(8):936-941. **PMID: 21102225**

Saran, N.; Rathjen, KE. Guided Growth for the Correction of Pediatric Lower Limb Angular Deformity. *J Am Acad Orthop Surg.* 2010 Sep;18:528-536. **PMID: 20810934**

McIntosh, Amy L., Hanson, Chad M., Rathjen, Karl E. Treatment of Adolescent Tibia Vara with Hemiepiphysiodesis: Risk Factors for Failure. *J Bone Joint Surg Am*. 2009 December; 91:2873-2879 **PMID: 19952250**

Sucato DJ, Erken YH, Davis S, Gist T, McClung A, Rathjen KE Prone thoracosopic release does not adversely affect pulmonary function when added to a posterior spinal fusion for severe spine deformity, Spine (Phila Pa 1976). 2009 Apr 15;34(8):771-8. **PMID: 19365244**

Walick KS, King JT, Johnston CE, Rathjen KE. Neuropathic lower extremity pain following Dunn-McCarthy instrumentation. Spine. 2008 Nov 1; 33(23):E877-80. **PMID: 18978581**

Richards, Stephens B., S Faulks, KE Rathjen, L Karol, C Johnston, S Jones.A Comparison of Two Nonoperative Methods of Idiopathic Clubfoot Correction: The Ponseti Method and the French Functional (Physiotherapy) Method. *J Bone Joint* Surg *Am. 2008* November; 90:2313-2321. **PMID: 18978399**

Scherl, Susan A., KE Rathjen, J Gerardi, G Kiefer, G Georgopoulos, MS Murphy-Zane, RD Blasier, PL Schoenecker; H. Epps. Opinion Survey Regarding Pediatric Orthopaedic Trauma Call and Emergency Trauma Management. *J Ped Ortho.* 2008 June 28 (4):393-3. **PMID: 18520272**

Rathjen, KE, M Wood, A McClung, Z Vest. Clinical and Radiographic Results After Implant Removal in Idiopathic Scoliosis. *Spine*. 2007 Sep. 15;32(20):2184-2188. **PMID : 17873809**

Rathjen KE, A Riccio, D De La Garza. Stainless Steel Flexible Intramedullary Fixation of Unstable Femoral Shaft Fractures in Children. *J Ped Orthop*. 2007 Jun.27(4):432-441. **PMID: 17513966**

Zhang D. JA Herring, SS Swaney, TB McClendon, X Gao, RH Browne, KE Rathjen, et al. Mutations responsible for Larsen syndrome cluster in the FLNB protein. *J Med Genet*. 2006 May.43(5): e24. **PMID: 16648377**

Mubarak SJ, S Frick, E Sink, KE Rathjen, KJ Noonan. Volkmann contracture and compartment syndromes after femur fractures in children treated with 90/90 spica casts. *J Ped Orthop*. 2006 Sep-Oct; 26(5):567-72. **PMID: 16932092**

Sanger TD, M R Delgado, D Gaebler-Spira, et al. Classification and Definition of Disorders Causing Hypertonia in Childhood and the Task Force on Childhood Motor Disorders. *Pediatrics*, 2003.111(1):e89-e97.

S G Krishnan and KE Rathjen. Open Iliac Wing Fracture Caused by Penetrating Injury from a Bicycle Handlebar. *J Orthop Trauma.* 2002.16(4):277-279. PMID 11927811

Mubarak S, A Sanchez, KE Rathjen. Subtalar Staple Arthrodesis for Planovalgus Foot Deformity in Children with Neuromuscular Disease. *J Ped Orthop.*1999(1):34-38. PMID: 9890283

Rathjen, KE; and S. Mubarak. Calcaneal-Cuboid-Cuneiform Osteotomies for the Correction of Valgus Foot Deformities in Children. *J Ped Orthop.*1998.18(6):775-782. PMID: 9821135

Presentations

Rathjen, Karl, Jaime Rice, Rebecca Clinton: POSNA, May 1-4, 2013. E-Poster.

- Review of Triple Arthrodesis for the Treatment of Foot Deformity in Patients with Myelomeningocele.

Rathjen, Karl: Jeddah Spine Summit, Jeddah, Saudi Arabia, Feb. 21-22, 2013.

- Neuromuscular Scoliosis: Indications, Technique, Principles;
- Case Presentations-Scoliosis;
- Practical Use of the Lenke Classification for Surgical Planning;
- Sacral Fractures after Fusion to the Pelvis;
- Pediatric High Grade Spondylolisthesis;
- Vertebral Derotation in Scoliosis Correction: Medtronic VMC System.

Fletcher Nicholas, Anna McClung, Karl E. Rathjen, Richard H. Browne, Charles Johnston.: SRS 46th Annual Meeting, Louisville, KY 2012.

- Serial Casting as a Delay Tactic in the Treatment of Moderate to Severe Early Onset Scoliosis

Dennis, Knap, Karl Rathjen, Raymund Woo, Mark Rahm, Terry Trammell, Robert Gaines, W Hess, Hani Mhaidli, Francisco Javier, Sanches Perez-Grueso, Thomas Ross, Mitsuru Yagi, Oheneba Boachie-Adjei, Complex Spine Study Group:, Istanbul, Turkey, IMAST, E-Poster Presentation, July 18-21, 2012.

- A Comparative Analysis of Perioperative Complications in Patients undergoing Spinal fusion for Adolescent Idiopathic Scoliosis and Adolescent Scheuermann's Kyphosis.

Rathjen, Karl; Trauma Grand Rounds, Children's Medical Center Dallas, Dallas, Texas, June 28, 2012

- Severe Lower Extremity Trauma,

Rathjen, Karl; Jennifer Laine, Alexander Cherkashin, Mikhail Samchukov, John Birch, Benjamin Martin, Jaime Rice-Denning: 2012 The Association of Bone and Joint Surgeons Annual Meeting. Charleston, South Carolina, May 2-6, 2012.

- Circular External Fixation in the Management of Pediatric Type IIIB & IIIC Open Tibial Fractures

Fletcher, Nicholas, Anna McClung, Karl Rathjen, Richard Browne, Charles Johnston. Scoliosis Research Society Annual Meeting, Louisville, Kentucky, September 14-17, 2011.

- Serial casting as a delay tactic in the treatment of moderate to severe early onset scoliosis

Rathjen, Karl E.: LLRS Limb Lengthening and Reconstruction Society Annual Meeting, Chicago, IL. July 22-23, 2011

- Circular External Fixation in the Management of Pediatric Grade IIIB & IIIC Open Tibial Fractures

Podeszwa, D.A.: Adriana DeLaRocha, Jonathon Boyle, Sara Strebe, Karl E. Rathjen; Twenty Year Radiographic and Functional Outcomes of Pavlik Harness Use for Developmental Dysplasia of the Hip, 2011 POSNA Annual Meeting, Montreal, Quebec, Canada, May 11-14, 2011.

Karol, L.A.: Kristen Tulchin, Kelly Jeans, Karl E. Rathjen; Gait Analysis in Children with Idiopathic Clubfoot Treated with Anterior Tibialis Tendon Transfer, 2011 AAOS Annual Meeting, San Diego, California, February 15-19, 2011.

Rathjen,K.E.; Hanson, C. M.; Barkoh,K.; Bush,P.; Functional Outcome of Adolescent Tibia Vara, LLRS 2010 Annual Meeting, New York, N.Y., July 16-17, 2010

Rathjen, K.E.; Adolescent Tibial Vara - Results of Hemi-Epiphysiodesis and Long-Term Functional Outcome. Israel Pediatric Orthopedic Society Annual Meeting; Maalot, Israel; June 19, 2010.

Rathjen, K.E.; The 5th Nahariya Instructional Course in Pediatric Orthopaedics, Western Gailee Hospital, Nahariya, Israel. June 17, 2010.

1. Pearls and Pitfalls in Pediatric Upper Extremity Fractures
2. Managing Complex Complications of Lower Extremity Trauma in Children

Garg, S.: Matthew Oetgen, B. Stephens Richards, Karl E. Rathjen, Kyphectomy in children with Myelodysplasia (E-Poster), 2010 POSNA/APOA Annual Meeting, Waikaloa, Hawaii, May 3-7, 2010

Rathjen, K.E.: Instructional Course Lecture on Management of Pediatric Spine Trauma, AAOS 2010 Annual Meeting, New Orleans, LA, March 11, 2010

Hanson, C.M.; Barkoh, K.; Rathjen, K.E; Functional Outcome of Adolescent Tibia Vara, AAOS 2010 Annual Meeting, New Orleans, LA, March 9-13, 2010

Rathjen, K.E.: Moderator, Instructional Course Lecture on Pediatric Spine Trauma, AAOS 2009 Annual Meeting, Las Vegas, Nevada, February 25-28, 2009

Rathjen, K.E.: Pearls and Pitfalls of Guided Growth for Deformity Correction, AAOS 2009 Annual Meeting, Las Vegas, Nevada, February 25-28, 2009

Scherl, S.A.: Karl E. Rathjen; Joseph A. Gerardi; Gerhard N. Kiefer; Gaia Georopoulos; Margaret Siobhan Murphy-Zane; R. Dale Blasier; Howard R. Epps; Perry L. Schoenecker; Pediatric Orthopaedic Trauma Call and Emergency Fracture Management, AAOS 2009 Annual Meeting, Las Vegas, Nevada, February 25-28, 2009.

Martus, J.E.: Karl E. Rathjen; Pediatric Cervical Kyphosis: A Comparison Of Arthrodesis Techniques, 15th IMAST, Hong Kong, July 8-11, 2008

Rathjen, K.E.: Pediatric Cervical Kyphosis: A Comparison of Arthrodesis Techniques, ABJS, Jacksonhole, Wyoming, June 15-17, 2008

Rathjen, K.E.: McIntosh, Amy; "The Treatment of Adolescent Blount's Disease with Hemiepiphysieodesis: Risk Factors for Failure" POSNA Annual Meeting, Albuquerque, New Mexico, May 1-2, 2008

Rathjen, K.E.: POSNA Chairman for the Egyptian Orthopaedic Association/EPOS / POSNA Instructional Course at the 59th International Congress of the Egyptian Orthopaedic Association, Cairo, Egypt, November 26-27, 2007.
1. Proximal Femoral Focal Deficiency
2. Clubfoot

Rathjen, K.E.: Results of Smith Peterson Spinal Osteotomies in Children, ABJS, Buenos Ares, Argentina, April 3-7, 2007

Rathjen, K.E.: Megan Wood; Anna McClung;Zachary Vest: Spinal Implant Removal. S.R.S. Annual Meeting, Monterrey, CA, September 12-13, 2006.

Rathjen, K.E.: Clinical and Radiographic Results Following Implant Removal in Idiopathic Scoliosis. 41st Annual Scoli Res Soc Mtg, Monterey, California, September 2006

Rathjen, K.E.: Cervical Spine Trauma: Orthopaedic Management for Children. AAOS Pediatric Trauma Course, Rosemont, Illinois, July 14-16, 2006.

Rathjen, K.E.: SBAA Conference, Atlanta, GA, June 26-29, 2006.
1. Lower Extremity Issues in Children with Spina Bifida
2. Ask the Doctor-Orthopaedic

Rathjen, K.E: anticipant, Task force on Childhood Motor Disorders, Clinical Measurement of Negative Motor Signs in Childhood" Bethesda, M.D., March 4-5, 2006.

Rathjen, K.E.: "Epiphyseolysis for the Treatment of Partial Physeal Arrest," ALRSASAMI NA Annual Meeting, New York, NY, July 18-31, 2005.

Rathjen, K.E.: Participant, Taskforce on Childhood Motor Disorders, "Negative Motor Symptoms in Childhood," Bethesda, MD, March 12-14, 2005.

Rathjen, K.E.: "Physeal Bar Resection", POSNA Specialty Day, Washington, D.C., February 26, 2005.

Rathjen, K.E: Pediatric Orthopaedic Emergencies," Symposium, AAOS Annual Meeting, Washington, D.C., February 23-27, 2005.

Rathjen, K.E.: Faculty, "Case Presentations, Complications, and Panel Discussions." AAOS Trauma Course, Rosemont, IL, October 22-24, 2004.

Rathjen, K.E.: Sucato, D.J., Harris, K. "The Effect of Surgical Approach on Early Postoperative Pulmonary Function in the Treatment of Adolescent Idiopathic Scoliosis," 11th IMAST International Conference, Southampton, Bermuda, July 1-3, 2004.

Rathjen, K.E.: SBAA Conference, Arlington, VA, June 21-22, 2004.
1. Spinal Deformity in Myelomeningocele
2. Orthopaedic Issues in Adults with Spina Bifida

Rathjen, K.E.: Co-Chairman: Southwestern Orthopaedic Surgery Review, Dallas, TX; April 16-18, 2004.
1. "Trauma-Pediatric"
2. "Mineral Metabolism"
3. "The Art of Preparing for & Taking Written and Oral Examinations"

Rathjen, K.E.: Skaggs, D.L., Blakemore, L.C. Flynn, J.M., Scherl, S.A., Weismann,D.S.: "Current Trends in Orthopaedic Trauma in Children", *Scientific Exhibit* AAOS Annual Meeting, San Francisco, CA, March 10-14, 2004.

Rathjen, K.E.: Participant: Task Force on Childhood Motor Disorders Meeting, "Quantification of Hypertonia: State of the Art and Future Directions." Dallas,TX, February 28-March 1, 2004.

Rathjen, K.E.: "Orthopaedic Considerations in the Child with Spina Bifida." Spina Bifida Association of America Conference, San Antonio, TX, June 22-25, 2003.

Rathjen, K.E.: Hurt, J.H., Birch, J.G., Wilkes, D., Bruce, R., Mason, R.: "Epiphysiolysis for the

Treatment of Partial Physeal Arrest". Pediatric Pediatric Orthopaedic Society of North America Annual Meeting, Amelia Island, Florida, May 2-4, 2003.

Rathjen, K.E.: Tassone, J.C.: "Open Reduction of Developmentally Dislocated Hips In Older Children". Pediatric Orthopaedic Society of North America Annual Meeting, Amelia Island, Florida, May 2-4, 2003.

Rathjen, K.E.: Co-Chairman: Southwestern Orthopaedic Surgery Review, Dallas, TX: April 25-27, 2003.

1. "Pediatric Fractures and Infections"
2. "The Art & Practice of Preparing for and Taking Written and Oral Exams"

Rathjen, K.E.: Participant: Task Force on Childhood Motor Disorders Meeting, "Quantitative Assessment of Childhood Hypertonia." Palo Alto, California: January 26-27, 2003.

Rathjen, K.E.: Tassone, J.C., Karol, L.A., Gangwal, K., Mirabella, K.: "Results of Posterior Medial Release for Treatment of Clubfoot Deformity in Patients with Arthrogryposis". Pediatric Orthopaedic Society of North America Annual Meeting, Salt Lake City, Utah, May 4, 2002.

Rathjen, K.E.: Kassab, F: "Recurrence Rate Following Curettage of Aneurysmal Bone Cysts of the Extremities in Children". *Poster presentation*, Pediatric Orthopaedic Society of North America Annual Meeting, Salt Lake City, Utah, May 3-5, 2002.

Rathjen, K.E.: Co-Chairman: Southwestern Orthopaedic Surgery Review, Dallas, TX, March 15-17, 2002.

1. "Pediatric Fractures and Infections"
2. "The Art & Practice of Preparing for and Taking Written and Oral Exams."

Rathjen, K.E.: "Development Hip Dysplasia." Pediatric and Adolescent Provider Forum Series, Dallas, TX; May 3, 2001.

Rathjen, K.E.: Participant: Task Force on Childhood Motor Disorders Consensus Report of a Meeting at the National Institutes of Health, Bethesda, MD, April 23, 2001.

Rathjen, K.E.: Co-Chairman: Southwestern Orthopaedic Surgery Review, Dallas, TX, April 20, 2001.

1. "Pediatric Fractures and Infections"
2. "The Art & Practice of Preparing for and Taking Written and Oral Exams"

Rathjen, K.E.: "Scoliosis: Diagnosis and Current Management." Society of Pediatric Nurses, Dallas, TX, April 4, 2001.

Rathjen, K.E.: McDaniel, M.M., Halliday, S.E., Bering, E.E., Casey, M.T. "Efficacy Of Cervical Orthroses in Restricting Motion in Normal Children." *Poster Presentation*, Pediatric Orthopaedic Society of North America Annual Meeting, Vancouver, British Columbia, Canada; May 1-4, 2000.

Rathjen, K.E.: De la Garza, D.J.: "Flexible Intramedullary Fixation for Difficult Femoral Fractures." Pediatric Orthopaedic Society of North America Annual Meeting, Vancouver,

British Columbia, Canada, May 2, 2000.

Rathjen, K.E.: "Common Injuries in the Pediatric Athlete." 33rd Annual Kenneth C. Haltalin , Seminar, Dallas, TX, March 23, 2001.

Rathjen, K.E.: Pediatric Fractures and Infections." Southwestern Orthopaedic Surgery Review, Dallas, TX, March, 2000.

Rathjen, K.E.:"Pediatric Fractures and Infections." Southwestern Orthopaedic Surgery Review, Dallas, TX, May 14, 1999.

Rathjen, K.E.: "Scoliosis." Texas Academy of Physician Assistants, Dallas, TX, March 14, 1999.

Rathjen, K.E.: "Foot Deficiencies." PALS Seminar, Dallas, TX, March 6, 1999.

Medlock, V.: Rathjen, K.E.; Montgomery, J.B.: "Hip Arthroscopy for the Late Sequelae of Perthes Disease." 18th Annual Meeting of the Arthroscopy Association of North America, Vancouver, BC, Canada, April 1999.

Rathjen, K.E.: "Principles of Pediatric Orthopaedic Trauma." Children's Medical Center Pediatric Trauma Seminar, Dallas, TX, October 17, 1998.

Rathjen, K.E.: "Pediatric Fractures and Infections." Southwestern Orthopaedic Surgery Board Review Course, Dallas, TX, May 1998.

Mubarak, S.: Rathjen, K.E.: "Calcaneal-Cuboid-Cuneiform Osteotomies for the Correction of Valgus Foot Deformities in Children." Annual Meeting of The Association of Bone and Joint Surgeons, Phoenix, AZ, May 1, 1997.

Rathjen, K.E.: "Common Injuries in the Pediatric Athlete." 29th Annual Kenneth C. Haltalin Seminar, Dallas, TX, April 18, 1997.

Rathjen, K.E.: Mubarak, S: "Calcaneal-Cuboid-Cuneiform Osteotomies for the Correction of Valgus Foot Deformities in Children." AAOS Annual Meeting, San Francisco, CA, February 1997.

Sanchez, A.: Rathjen, K.E.: Mubarak, S.: "Subtalar Staple Arthrodesis in Children with Neuromuscular Diseases." AAOS Annual Meeting, San Francisco, CA., February 1997.

Rathjen, K.E.: "Congenital Scoliosis and Kyphosis." University of California - San Diego Department of Orthopaedics Grand Rounds, San Diego, CA, May 22, 1996.

Mubarak, S.: Rathjen, K.E.; "Calcaneal, Cuboid and Cuneiform Osteotomies for the Treatment of Varus and Valgus Foot Deformities in Children." Pediatric Orthopaedic Society of North America Annual Meeting, Phoenix, AZ, May 14, 1996

Rathjen, K.E.: "Pathologic Fractures in Children and Adolescents." University of California - San Diego Department of Orthopaedics Grand Rounds, San Diego, CA, November 23,

1995.

Rathjen, K.E.: “Extremity Trauma.” Pediatric Trauma Nurse Course, San Diego, CA., September 13, 1995.

Rathjen, K.E.: “The Accuracy of Routine Vascular Examination in the Detection of Significant Vascular Injuries Associated with Knee Dislocations.” American Orthopaedic Association Residents Conference, Atlanta, GA, March 23, 1994.

Rathjen, K.E.: “Early Results of a Prospective Randomized Study of the Use of Continuous Passive Motion in Primary Total Knee Arthroplasty for Osteoarthritis.” American Orthopaedic Association Residents Conference, Atlanta, GA, March 24, 1994.

Rathjen, K.E.: “Principles of Intramedullary Fixation.” AO/ASIF Operating Room Personnel Course, Dallas, TX, September 18, 1993.

Rathjen, K.E.: “Knee Dislocations.” Charles Gregory Lectureship, Dallas, TX, June 4, 1993.