

PETER G. GABOS, M.D.

Office Address: Department of Orthopaedic Surgery, Alfred I. duPont Hospital for Children, 1600 Rockland Road, P.O. Box 269 Wilmington, DE 19899 (302) 651-5740

EDUCATION:

Fairfield University, Fairfield, CT

Degree: Bachelor of Science, May 1987

Major/Minor: Biology/Chemistry

New York University School of Medicine, New York, NY

Degree: Doctor of Medicine, May 1991

POSTGRADUATE TRAINING and FELLOWSHIP APPOINTMENTS:

St. Luke's/Roosevelt Hospital Center, New York, NY

Internship: General Surgery, July 1991 - June 1992

Residency: Orthopaedic Surgery, July 1992 - June 1996

Alfred I. duPont Institute, Wilmington, DE

Clinical Fellowship in Pediatric Orthopaedic Surgery, July 1996 - July 1997

FACULTY APPOINTMENTS:

Jefferson Medical College, Philadelphia, PA

Assistant Clinical Professor of Orthopaedic Surgery (July, 1997-present)

Thomas Jefferson University Hospital, Philadelphia, PA

Attending Pediatric Orthopaedic Surgeon (July, 1997-present)

Alfred I. duPont Institute, Wilmington, DE

Attending Pediatric Orthopaedic Surgeon (July, 1997-present)

HOSPITAL and ADMINISTRATIVE APPOINTMENTS:

Director, Pediatric Orthopaedic Surgery, *duPont at Jefferson* (July, 1997-July, 2002)

Orthopaedic Residency Director, Alfred I. duPont Hospital for Children (2007-present)

Co-Director, Division of Pediatric Spinal Surgery, Alfred I. duPont Hospital for Children

Member, Medical Executive Committee, Alfred I. duPont Hospital for Children, July 2001-July 2002

Member, Credentialing Committee, Alfred I. duPont Hospital for Children, July 2007-2010

SPECIALTY CERTIFICATION:

National Board of Medical Examiners (NBME) (July, 1992)

American Board of Orthopaedic Surgery (ABOS) (July, 1999)

American Board of Orthopaedic Surgery (ABOS) Recertification (July, 2009)

LICENSURE:

Delaware #C10004974, issued February 4, 1997-current

Pennsylvania #MD-060858-L, issued January 28, 1997-current

New York #195141, issued March 15, 1994-inactive

AWARDS, HONORS and MEMBERSHIP in HONORARY SOCIETIES:

Alpha Sigma Nu, the National Honor Society of Jesuit Colleges and Universities

Alpha Epsilon Delta, the National Premedical Honor Society

MEMBERSHIP IN PROFESSIONAL and SCIENTIFIC SOCIETIES:

Member, **American Academy of Orthopaedic Surgeons (AAOS)**

Member, **Pediatric Orthopaedic Society of North America (POSNA)**

Core Member, **Chest Wall Spine Deformity Study Group (CWSD)**
Associate Member, **Harms Study Group (HSG)**
Fellow, **American Academy for Cerebral Palsy and Developmental Medicine (AAPDM)**
Member, **American Medical Association (AMA)**
Member, **Scoliosis Research Society (SRS)**

PROFESSIONAL and SCIENTIFIC COMMITTEES:

POSNA Public Education and Media Relations Committee (2009-2010)

EDITORIAL POSITIONS:

Reviewer, *Clinical Orthopedics and Related Research (CORR)*, 2001-present

PUBLICATIONS (peer-reviewed):

1. Gabos PG, Tuten HR, Leet A, Stanton R: Fracture-dislocation of the lumbar spine in an abused child. *Pediatrics*, 101 (3): 473-77, 1998.
2. Gabos PG, Bowen JR: Epiphyseal-metaphyseal enchondromatosis. A new clinical entity. *Journal of Bone and Joint Surgery*, 80-A: 782-792, 1998.
3. Tuten HR, Gabos PG, Kumar SJ, Harter GD: The limping child. A manifestation of acute leukemia. *Journal of Pediatric Orthopaedics*, 18(5): 625-629, 1998.
4. Cavalier R, Gabos PG, Bowen JR: Isolated rupture of the soleus muscle. A case report. *American Journal of Orthopedics*, 27 (11): 755-757, 1998.
5. Tuten HR, Keeler KA, Gabos PG, Mackenzie WG, Zionts LE: Post-traumatic tibia valga in children. A long-term follow-up note. *Journal of Bone and Joint Surgery* 81-A: 799-810, 1999.
6. Gabos PG, Miller F, Galban MA, Gupta GG, Dabney K: Palliative interposition arthroplasty for the treatment of end stage spastic hip disease in nonambulatory children with cerebral palsy. *Journal of Pediatric Orthopaedics*, 19 (6): 796-804, 1999.
7. Sneineh AKA, Gabos PG, Keller MS, Bowen JR: Ultrasonography of the spine in infants with a sacral skin dimple. *Journal of Pediatric Orthopaedics*, 22 (6):761-762, 2002.
8. Sneineh AKA, Gabos PG, Miller F: Radial head dislocation in children with cerebral palsy. *Journal of Pediatric Orthopaedics*, 23:155-158, 2003.
9. Sneineh AKA, Lipton GE, Gabos PG, Miller F: Dysfunction of a ventriculoperitoneal shunt after posterior spine fusion in children with cerebral palsy. A report of two cases. *Journal of Bone and Joint Surgery*, 85-A: 1119-1124, 2003.
10. Gabos PG, Bowen JR, Bojescul J, Keeler K, Rich L: Long-term follow-up of adolescent idiopathic scoliosis in females treated with the Wilmington brace. *Journal of Bone and Joint Surgery* 86-A: 1891-1899, 2004.

11. Gabos PG, El Rassi GE, Pahys J: Knee reconstruction in syndromes with congenital absence of the anterior cruciate ligament. *Journal of Pediatric Orthopaedics*, 25(2):210-214, 2005.
12. Gabos PG: Modified technique for the surgical treatment of congenital constriction bands of the arms and legs of infants and children. *Orthopedics*, 29(5):401-404, 2006.
13. Jeong C, Inan M, Riddle EC, Gabos PG, Bowen JR: Knee arthritis in congenital short femur after Wagner lengthening. *Clin Orthop Rel Res*, 451:177-181, 2006.
14. Riad J, Gabos PG: Bilateral slipped capital femoral epiphysis: risk factors for contralateral slip. *Journal of Pediatric Orthopaedics*, 27:411-414, 2007.
15. Nagai M, Littleton A, Gabos PG: Intrauterine gangrene of the lower extremity in the newborn. *Journal of Pediatric Orthopaedics*, 27:499-503, 2007.
16. Inan M, Domzalski M, Gabos PG: Incomplete transiliac osteotomy after closure of the triradiate cartilage in children with cerebral palsy. *Clin Orthop Rel Res*, 462:169-174, 2007.
17. Senaran H, Shah SA, Gabos PG, Littleton AG, Neiss G, Guille JT: Difficult thoracic pedicle screw placement in adolescent idiopathic scoliosis. *J Spinal Disord Tech*, 21:187-191, 2008.
18. Domzalski M, Grzelak P, Gabos P: Risk factors for anterior cruciate ligament injury in skeletally immature patients: analysis of intercondylar notch width using magnetic resonance imaging. *Int Orthop*, 34(5):703-7, 2010.
19. Mohamed Ali MH, Koutharawu DN, Miller F, Dabney K, Gabos P, Shah S, Holmes L Jr. Operative and clinical markers of deep wound infection affecting spine fusion in children with cerebral palsy. *J Pediatric Orthopaedics*, 30(8):851-857, 2011.
20. Thawrani D, Kuester V, Gabos PG, Kruse RW, Littleton AG, Rogers KJ, Holmes L, Thacker MM. Reliability and necessity of computerized tomography in distal tibial physeal injuries. *J. Pediatric Orthopaedics*, 31(7):745-50, 2011
21. Dhawalee AA, Shah SA, Sponseller PD, Bastrom T, Neiss G, Yorgova P, Newton PO, Yaszay B, Abel MF, Shufflebarger H, Gabos PG, Dabney KW, Miller F. Are antifibrinolytics helpful in decreasing blood loss and transfusions during spinal fusion surgery in children with cerebral palsy scoliosis? *Spine* Oct 27, 2011.
22. Gabos PG, Inan M, Thacker M, Borkhu B. Spinal fusion for scoliosis in Rett syndrome with an emphasis on early postoperative complications. *Spine*, 37 (2), 1-5, 2012.
23. Yilmaz G, Borkhu B, Dhawale AA, Oto M, Littleton AG, Mason DE, Gabos PG, Shah SA. Comparative analysis of hook, hybrid and pedicle screw instrumentation in the posterior treatment of adolescent idiopathic scoliosis. *J Pediatr Orthop*. 2012 Jul;32(5):490-9
24. Karatas AF, Dede O, Atanda AA, Holmes L Jr., Rogers K, Gabos P, Shah SA. Comparison of direct pars repair techniques of spondylolysis in pediatric and adolescent patients: pars compression screw versus pedicle screw-rod-hook. *J Spinal Disord Tech*, 2012 Oct (16)

25. Dhawale AA, Shah SA, Yorgova P, Neiss G, Layer DJ Jr., Rogers KJ, Gabos PG, Holmes L Jr. Effectiveness of cross-linking posterior segmental instrumentation in adolescent idiopathic scoliosis: a 2-year follow-up comparative study. *Spine J.*, 2013 Nov 13 (11):1485-92

PUBLICATIONS (non peer-reviewed):

1. Dokla CPJ, Fitzgerald L, Gabos PG: Somatostatin depletion impairs spatial search strategies in the Morris water task. *Proceedings of the Eastern Psychological Association*, 58: 39, 1987.
2. Gabos PG, Bowen JR: Hinge subluxation in Perthes disease. In: Albinana, J, ed. *Legg-Calve-Perthes Disease. Mapre Medica*, 6 (III): 237-242, 1995.
3. Gabos PG, Bowen JR: Epiphyseal-meytaphyseal enchondromatosis. Pictures of Standard Syndromes and Undiagnosed Malformations, Case 5910 (POSSUM 5.5, <http://www.possu.net.au>), 2001.
4. Gabos PG: Treatment strategies in congenital scoliosis. *Contemp Spine Surg*, 6(7):1-6, 2005.
5. Gabos PG: Common sports injuries. (Auto-Digest) *Pediatrics*, 57(22), 2011.

EDITORIALS, REVIEWS, CHAPTERS:

1. Mackenzie WG, Gabos PG.: Localized disorders of bone and soft tissue. In: Morrisey RT, Wienstein S, eds: *Lovell and Winter's Pediatric Orthopaedics*, Fifth Edition, 339-377, Philadelphia, PA: Lippincott-Raven, 2000.
2. Gabos PG: Adolescent idiopathic scoliosis. In: Vaccaro AR, Albert TJ, eds. *Master Cases: Spine Surgery*, 391-400, New York, NY: Thieme, 2001.
3. Savas PE, Gabos PG: Congenital scoliosis. In: Vaccaro AR, Albert TJ, eds. *Master Cases: Spine Surgery*, 401-410, New York, NY: Thieme, 2001.
4. Gabos PG: Skeletal Dysplasia. In: Vaccaro AR, Betz RR, Ziedman SM, eds.: *Principles and Practice of Spine Surgery*, 649-666, St. Louis, MO: Mosby Inc., 2002.
5. Gabos PG: Complications related to the surgical management of spinal deformity in patients with cerebral palsy. In: Vaccaro AR et al: *Complications of Pediatric and Adult Spinal Surgery*, 655-675, New York, NY: Marcel Dekker, Inc., 2004.
6. Mackenzie WG, Gabos PG: Localized disorders of bone and soft tissue. In: Morrisey RT, Wienstein S, eds: *Lovell and Winter's Pediatric Orthopaedics*, Sixth Edition, 315-356, Philadelphia, PA: Lippincott-Raven, 2005.
7. Gabos PG: Juvenile scoliosis. In: Anderson DG, Vaccaro AR, eds: *Decision Making in Spinal Care*, 256-261, New York, NY: Thieme, 2007.

8. Gabos PG: Anterior thoracolumbar spinal fusion with single or dual rod instrumentation via open approach for idiopathic scoliosis. In: Vaccaro AR, Baron EM eds: *Spine Surgery*, 197-207, Philadelphia, PA: Elsevier Inc, 2008.
9. Quinnan SM, Gabos PG: Anatomy and development of the immature cervical spine. In: Anderson DG, Vaccaro AR, eds: *Cervical Spine Trauma*, Philadelphia, PA: Lippincott-Raven, 2008.
10. Quinnan SM, Gabos PG: Imaging modalities for the traumatically injured pediatric spine. In: Kim DH, Ludwig SC, Vaccaro AR, eds: *Pediatric and Adult Spine Trauma*, Philadelphia, PA: Elsevier Inc, 2010 (in press).
11. Gabos PG: Anterior thoracolumbar spinal fusion with single or dual rod instrumentation via open approach for idiopathic scoliosis. In: Vaccaro AR, Baron EM eds (Second Edition): *Spine Surgery*, 158-165, Philadelphia, PA: Elsevier Inc, 2012.
12. Gabos PG: Juvenile scoliosis. In: Anderson DG, Vaccaro AR, eds: *Decision Making in Spinal Care*, 2nd ed., 282-288, New York, NY: Thieme, 2012.
13. Spinal deformity in myelomeningocele. *Neuromuscular Spine Monograph*. DePuy Spine. 2012

LECTURES BY INVITATION (Course-Related):

1. Palliative treatment of painful dislocated hips in cerebral palsy. Spastic Hip Tutorial. *Pediatric Orthopaedic Society of North America (POSNA)*, Wilmington, DE, November 1996.
2. Athletic injuries of the adolescent knee. *National Athletic Trainers Association (NATA) Conference*, Wilmington, DE, January 1997.
3. Pediatric knee injuries. *Pediatric Kaleidoscope*, Philadelphia, PA, March, 2000.
4. Pediatric sports injuries. *Warren Memorial Lecture*, Wilmington, DE, November, 2000.
5. Complications related to the surgical management of spinal deformity in patients with cerebral palsy. Neuromuscular Scoliosis Tutorial, *Scoliosis Research Society (SRS)*, Wilmington, DE, 2003.
6. Thoracoscopy in spinal deformity surgery. *Spine Surgery: Advanced Applications and Techniques*, Course #3626, *American Academy of Orthopaedic Surgeons (AAOS)*, Orthopaedic Learning Center, Rosemont, Illinois, November 14-16, 2003.
7. Management of iatrogenic neurologic loss with the use of spinal instrumentation. *Spine Surgery: Advanced Applications and Techniques*, Course #3519, *American Academy of Orthopaedic Surgeons (AAOS)*, Orthopaedic Learning Center, Rosemont, Illinois, November 19-21, 2004.
8. Idiopathic Scoliosis: Applications of the Synthes USS dual-opening system. Spinal Deformity Think Tank (Synthes), Charleston, SC, March, 2005.

9. Management of iatrogenic neurologic loss with the use of spinal instrumentation. Spine Surgery: Advanced Applications and Techniques, Course #3719, *American Academy of Orthopaedic Surgeons (AAOS)*, Orthopaedic Learning Center, Rosemont, Illinois, November 10-12, 2005.
10. Complications related to the surgical management of spinal deformity in patients with cerebral palsy. Cerebral Palsy Tutorial, *Pediatric Orthopaedic Society of North America (POSNA)*, Wilmington, DE, November 9, 2005.
11. Knee problems in children with cerebral palsy. Cerebral Palsy Tutorial, *Pediatric Orthopaedic Society of North America (POSNA)*, Wilmington, DE, November 9, 2005.
12. Use of thoracic pedicle screws in pediatric spinal deformity surgery. The Complex Pediatric Spine (Synthes), Salt Lake City, Utah, March 2006.
13. Pedicle screw biomechanics and anatomic considerations for safe placement. *Scoliosis Research Society (SRS) Tutorial*, Wilmington, DE, April 2006.
14. Intraoperative neurophysiologic monitoring: state-of-the-art. *Scoliosis Research Society (SRS) Traveling Fellow's Conference*, Wilmington, DE, September 2006.
15. Complications related to the surgical management of spinal deformity in patients with cerebral palsy. Cerebral Palsy Tutorial, *Pediatric Orthopaedic Society of North America (POSNA)*, Wilmington, DE, November 1-3, 2006.
16. Knee problems in children with cerebral palsy. Cerebral Palsy Tutorial, *Pediatric Orthopaedic Society of North America (POSNA)*, Wilmington, DE, November 1-3, 2006.
17. Intraoperative neurophysiologic monitoring: state-of-the-art. Spinal Deformity Tutorial (DePuy/Acromed), Wilmington, DE, March 14, 2007.
18. Derotation techniques in spinal deformity surgery. Spinal Deformity Tutorial (DePuy/Acromed), Wilmington, DE, March 14, 2007.
19. Out-of-the-box treatments for early-onset idiopathic scoliosis. Spinal Deformity Think Tank (Synthes), Tucson, AZ, March 15-17, 2007.
20. Thoracic pedicle screws in spinal deformity: tips and techniques. Advanced Techniques in Complex Pediatric Spine Surgery (Synthes), Salt Lake City, Utah, February 22-23, 2008.
21. Advanced Treatments for Severe Spinal Deformity: Myelomeningocele (DePuy/Acromed), Coral Gables, FL, February 29-30, 2008.
22. The Knee or Not the Knee? That is the Question. Pediatric Spine Trauma Symposium: Protecting Our Future. Wilmington, DE, September 26, 2008.
23. Complications related to the surgical management of spinal deformity in patients with cerebral palsy. Cerebral Palsy Tutorial, *Pediatric Orthopaedic Society of North America (POSNA)*, Wilmington, DE, November 5-7, 2008.
24. Spinal Osteotomies. Spine Surgery: Advanced Applications and Techniques, Course #3327, *American Academy of Orthopaedic Surgeons (AAOS)*, Orthopaedic Learning Center, Rosemont, Illinois, November 5-7, 2009.

25. Advances in the treatment of severe spinal deformity in myelomeningocele. Peer-to-Peer (DePuy/Acromed), Coral Gables, FL June 3-4, 2011.
26. Complications related to the surgical management of spinal deformity in patients with cerebral palsy. Cerebral Palsy Tutorial, *Pediatric Orthopaedic Society of North America (POSNA)*, Wilmington, DE, November 5-7, 2011.
27. Surgical correction of scoliosis in myelomeningocele. Half Day Course (Chairman), *Scoliosis Research Society (SRS)*, Lyon, France, September 19, 2013
28. Neuromuscular scoliosis: Advanced correction techniques. Peer-to-Peer. (DePuySynthes Spine), Raynham, Massachusetts, November 9, 2013.

EXHIBITS at NATIONAL MEETINGS:

1. The limping child. A manifestation of acute leukemia. Poster presentation, *Pediatric Society of North America (POSNA)*, Cleveland, Ohio, May, 1998.
2. Long-term follow-up of adolescent idiopathic scoliosis in females treated with the Wilmington brace. Poster presentation, *American Academy of Orthopaedic Surgeons (AAOS)*, San Francisco, CA, March 2001.
3. Factors affecting shoulder balance after selective thoracic posterior spine fusion in adolescent idiopathic scoliosis. E-poster, *Pediatric Orthopaedic Society of North America (POSNA)*, Hollywood, Florida, May 2007.
4. Factors affecting shoulder balance after selective thoracic posterior spine fusion in adolescent idiopathic scoliosis. E-poster, *International Meeting of Advanced Spinal Techniques (IMAST)*, Nassau, Bahamas, July 2007.
5. The role of neuromonitoring in growing rod and VEPTR surgery. *Scoliosis Research Society (SRS)*, San Antonio, TX September 23-26, 2009.
6. Is the intraoperative H-Reflex a viable substitute for transcranial electric motor evoked potential (TcMEP) Monitoring in detecting emerging spinal cord injury during scoliosis surgery. *Scoliosis Research Society (SRS)*, San Antonio, TX September 23-26, 2009.
7. Multimodality spinal cord monitoring during scoliosis surgery in children with spastic quadriplegic cerebral palsy: is it feasible and safe even with an active seizure disorder? *Pediatric Society of North America (POSNA)*, Montreal, Quebec, Canada May 12-14, 2011.
8. Does the type of distraction-based growing system for early onset scoliosis affect postoperative sagittal alignment? *International Meeting of Advanced Spinal Techniques (IMAST) Copenhagen*, Denmark, July 13-16, 2011.
9. Preliminary experience with clinical use of a DNA prognostic test for adolescent idiopathic scoliosis in 196 patients. *International Meeting of Advanced Spinal Techniques (IMAST) Copenhagen*, Denmark, July 13-16, 2011.

10. Sagittal spinopelvic parameters help predict the risk of proximal junctional kyphosis for children treated with posterior distraction based implants. E-poster, *International Meeting of Advanced Spinal Techniques (IMAST) Copenhagen*, Denmark, July 13-16, 2011.
11. Spinal cord monitoring during scoliosis surgery in children with spastic cerebral palsy: Is it feasible and safe even with an active seizure disorder? *Scoliosis Research Society (SRS)*, Louisville, KY, September 14-17, 2011.
12. The use of antifibrinolytics substantially reduces blood loss during surgery for cerebral palsy scoliosis. *Scoliosis Research Society (SRS)*, Louisville, KY, September 14-17, 2011.
13. Preliminary experience with clinical use of a DNA prognostic test for adolescent idiopathic scoliosis in 196 patients. Poster presentation, *Scoliosis Research Society (SRS)*, Louisville, KY, September 14-17, 2011.
14. Perioperative use of gabapentin in AIS patients improves outcomes in pain management after spinal posterior fusion. *Pediatric Orthopaedic Society of North America (POSNA)*, Denver, CO, May 16-19, 2012.
15. Does the type of distraction-based growing system for early onset scoliosis affect post-operative sagittal alignment? El-Hawary R, Sturm PF, Cahill PJ, Samdani A, Vitale MG, Gabos PG, Bodin ND, d,Amato CR, Harris C, Smith JT. *Pediatric Orthopaedic Society of North America (POSNA)*, Denver, CO, May 16-19, 2012.