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## BIOGRAPHICAL SKETCH

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NAME: Michael J. Conklin MD

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POSITION TITLE: Professor Orthopedic Surgery

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EDUCATION/TRAINING *(Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.)*

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INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date MM/YYYY	FIELD OF STUDY
Xavier University (Cincinnati)	BS	06/1983	Natural Sciences
University of Cincinnati College of Medicine	MD	06/1987	MD
Carolinas Medical Center	Residency Orthopedic Surgery	06/1992	Orthopedic Surgery
Shriners Hospital for Crippled Children (Greenville, SC)	Fellowship Pediatric Orthopedic Surgery	07/1993	Pediatric Orthopedic Surgery

### A. Personal Statement

I am a Professor of Orthopedic Surgery, specializing in Pediatric Orthopedics. I have broad interests within Pediatric Orthopedics including neuromuscular, spinal deformity, foot and ankle and fracture care.

### B. Positions, Scientific Appointments, and Honors

Positions and Scientific Appointments:

10/1/21- Present Professor Orthopedic Surgery

10/1/06 – 10/1/21 Associate Professor Orthopedic Surgery

09/1/93 – 10/1/06 Assistant Professor Orthopedic Surgery

2017 – Present Committee for Science and Publication. National Spina Bifida Patient Registry. Center for Disease Control

2016 – Present Spina Bifida Healthcare Guidelines – Orthopedics, Committee Chairman

2017-Present Infrastructure for Musculoskeletal Pediatric Acute Care Clinical Trials, Member

Scoliosis Research Society

Pediatric Orthopedic Society of North America

Southern Orthopedic Association

Alabama Orthopedic Society

Ad hoc reviewer – Journal of Pediatric Rehabilitation Medicine  
Ad hoc reviewer – Clinical Anatomy

Honors:

Department of Orthopedic Surgery Resident Teaching Award - 2019

### C. Contributions to Science

The vast majority of my publications are in the realm of Pediatric Orthopedic Surgery. Within this area, my research and publications have been heavily weighted towards Pediatric fracture care, neurological conditions such as Cerebral Palsy and Spina Bifida, and Scoliosis. In the area of Pediatric fracture treatment, we have increased awareness regarding the subtle radiologic findings in distal humeral physeal separation (1). Also, my team has assessed the radiographic finding of glenohumeral subluxation after proximal humerus fracture and shown that this finding eventually resolves without the need for alteration of treatment (2). Additionally, we have evaluated adolescent tibial tubercle fractures and described percutaneous techniques for fixation (3).

Presentation of Distal Humerus Physeal Separation: Gilbert SR, **Conklin, MJ**,  
Ped Emerg Care, 23(11):816, 2007. PMID: 18007213

Radiographic pseudosubluxation of the shoulder in pediatric proximal humeral fractures. Torrez TW, Seidenstein A, Debell HA, **Conklin M**, McGwin G Jr, Gilbert SR. J Pediatr Orthop B. 2021 Aug 9. Online ahead of print. PMID: 34380986

Closed Reduction in the treatment of tibial tubercle fractures. Jardaly A, Ashley P, **Conklin M**, Gilbert S. Injury. 52(6):1336-1340. PMID: 34057069. 2021

Other publications related to pediatric fractures include:

1. Pediatric fractures following implant removal: a systematic review. Padgett AM, Howie CM, Sanchez TC, Cimino A, Williams KA, Gilbert SR, **Conklin MJ**. J Child Orthop. 2022 Dec;16(6):488-497. PMID: 36483642
2. Radiographic pseudosubluxation of the shoulder in pediatric proximal humeral fractures. Torrez TW, Seidenstein A, Debell HA, **Conklin M**, McGwin G Jr, Gilbert SR. J Pediatr Orthop B. 2021 Aug 9. Online ahead of print. PMID: 34380986
3. Webril-only Soft Spica Cast for Pediatric Femoral Fractures: A Preliminary Study. Jardaly A, Hess M, **Conklin M**, Gilbert S. J Surg Orthop Adv. Spring;30(1):40-43. PMID: 33851913. 2021.
4. Closed Reduction in the treatment of tibial tubercle fractures. Jardaly A, Ashley P, **Conklin M**, Gilbert S. Injury. 52(6):1336-1340. PMID: 34057069. 2021
5. Pitfalls in the treatment of Femur Fractures in Children and Adolescents. **Conklin MJ**, Gilbert SR. *Orthopaedic Knowledge Online Journal*. OKOJ\_PED055R1.

I am also very involved in improving the clinical care of individuals with Spina Bifida. I sit on the National Spina Bifida Patient Registry Committee for Science and Publication at the Center for Disease Control. I have served as Chairman for the Orthopedic Guidelines for the Treatment of People with Spina Bifida for the Spina Bifida Association. This resulted in the publication:

Orthopedic Guidelines for the Care of People with Spina Bifida. **Conklin M**, Kishan S, Nanayakara C, Rosenfeld S. *J Pediatr Rehab Med*. 13(4):629-635. PMID 33252095. 2020.

Other publications related to improving the care of children and young adults with Spina Bifida include:

The Patient with Symptoms Following Resection of a Lipomyelomeningocele: Do Increases in The Lumbosacral Angle Indicate a Tethered Spinal Cord? Tubbs, S., Naftel, R., Rice, W., Liechty, P., **Conklin M**, Oakes, J.; *Journal of Neurosurgery*, July 2006; 105 (1 suppl): 62-4. PMID: 16871872

Predicting Orthopedic Involvement in Patients with Lipomyelomeningoceles: Tubbs, R.S., Winters, R.G., Naftel, R.P. Acharya, V.K. **Conklin M.**, Shoja, M.M. Loukas, M., Oakes, W.J., *Child's Nervous System*; August. 2007. PMID: 17387484

Intradural spine surgery may not carry an increased risk of shunt revision compared with extradural spine surgery in pediatric patients with myelomeningocele. Kuhn, EN., Hopson, B., **Conklin, MJ.**, Blount, JP. *Journal Neurosurg Pediatr*, Jan; (1): 11-15. 2018

The development of a lifetime care model in comprehensive spina bifida care. Hopson B, Rocque BG, Joseph DB, Powell D, McLain ABJ, Davis RD, Wilson TS, **Conklin MJ**, Blount JP. *J Pediatr Rehabil Med*.11(4):323-334. PMID: 30507593 2018.

Skin breakdown of the feet in patients with spina bifida: Analysis of risk factors. **Conklin MJ**, Hopson B, Arynchyna A, Atchley T, Trapp C, Rocque BG. *J Pediatr Rehabil Med*. 2018;11(4):237-241. PMID: 30507590. 2018.

Surgeries and health outcomes among patients with spina bifida. Alabi NB, Thibadeau J, Wiener JS, **Conklin MJ**, Dias MS, Sawin KJ, Valdez R. *Pediatrics*. Sep;142(3):e20173730. PMID: 30158199. 2018.

Increased complications without neurological benefit are associated with prophylactic spinal cord untethering prior to scoliosis surgery in children with myelomeningocele. Goldstein HE, Shao B, Madsen PJ, Hartnett SM, Blount JP, Brockmeyer DL, Campbell RM, **Conklin M**, Hankinson TC, Heuer GG, Jea AH, Kennedy BC, Tuite GF, Rodriguez L, Feldstein NA, Vitale MG, Anderson RCE. *Childs Nerv Syst*. Nov;35(11) Nov;35(11):2187-2194. PMID: 31267182. 2019.

What Is the Role of Scoliosis Surgery in Adolescents and Adults with Myelomeningocele? A Systematic Review Viachaslau Bradko MD, Heidi Castillo MD, Ellen Fremion MD, **Michael Conklin MD**, Benny Dahl MD, PhD, Jonathan Castillo MD, MPH Clin Orthop Relat Res e-pub ahead of print Dec 2021.

Team Approach: The Management of Adolescents and Adults with Scoliosis and Spina Bifida. Bradko V, Castillo H, **Conklin M**, Fremion E, Rocque B, Hanson D, Sanz-Cortes M, Whitehead W, Castillo J. *JBS Rev*. 10(3). PMID: 35230996. Mar 1, 2022.