

# The Department of Orthopaedic Surgery of Nemours/Alfred I. duPont Hospital for Children

1600 Rockland Road | Wilmington, DE 19803 | Tel: 302-651-4000 | [Nemours.org](http://Nemours.org)

**Caring for each child as if they were our own.** The Department of Orthopaedic Surgery at the Nemours/Alfred I. duPont Hospital for Children has provided regional, national and international leadership in pediatric orthopaedics for more than 65 years. Providing comprehensive care for children and adolescents with bone, joint, muscular and nerve conditions, we treat a broad range of orthopaedic conditions including club foot, scoliosis and spinal disorders, gait and leg length discrepancies, cerebral palsy, bone tumors, skeletal dysplasia, arthrogyrosis, upper extremity problems, fractures and sports injuries. Outpatient orthopaedic services are available in clinics throughout the region Monday through Friday, and full orthopaedic coverage is available 24 hours a day for emergency cases. With capabilities for daily evaluations, patients are admitted to the Hospital when surgical correction is required.

The duPont Hospital for Children offers inpatient and outpatient services to support the orthopaedics program. These include:

- Center for Sports Medicine
- Gait and Motion Analysis Lab
- Cast Room
- Brace, orthotic and prosthetic services
- Medical imaging
- Pharmacy
- Rehabilitation services
- Physical and occupational therapy



**Dr. Mackenzie**

**William G. Mackenzie, MD**, Chairman, Department of Orthopaedic Surgery, is a pediatric orthopaedic surgeon at the Nemours/Alfred I. duPont Hospital for Children and the Nemours Children's Clinic Newtown Square. Dr. Mackenzie serves as Assistant Professor of Orthopaedic Surgery at Jefferson Medical College of Thomas Jefferson University, Chairman of the Medical Advisory Board for Little People of America, Inc., and Medical Director of the Dwarf Athletic Association of America. He is a graduate of the University of British Columbia in Vancouver, Canada, where he also completed his residency. He completed a fellowship in pediatric orthopaedic surgery at the duPont Hospital for Children. Dr. Mackenzie is certified by the American Board of Orthopaedic Surgery and his clinical interests include skeletal dysplasia, limb length discrepancy, limb alignment and muscle diseases. **Provides care in Wilmington, DE and Newtown Square, PA**



**Dr. Bowen**

**James Richard Bowen, MD**, is a Nemours Professor of Orthopaedic Education and Research and a pediatric orthopaedic surgeon at the Nemours/Alfred I. duPont Hospital for Children. Dr. Bowen also serves as Professor of Orthopaedic Surgery at both Jefferson Medical College of Thomas Jefferson University and at Georgetown University Medical Center, Washington, DC. Dr. Bowen served as the Surgeon in Chief and Chairman of the Department of Orthopaedic Surgery from 1984-2005. He is a graduate of the Medical University of South Carolina, where he also completed his training in general surgery. He completed a residency program in orthopaedics at Albany Medical Center Hospital in New York and in pediatric orthopaedics at the duPont Hospital for Children. Dr. Bowen also served in the military as Major, U.S.A., MEDDAC, Fort Bragg Womack Army Hospital for two years. He is certified by the National Board of Medical Examiners and the American Board of Orthopaedic Surgery. His clinical interests include scoliosis, hip disorders and growth discrepancies. **Provides care in Wilmington, DE**



**Dr. Dabney**

**Kirk W. Dabney, MD**, is a pediatric orthopaedic surgeon at the Nemours/Alfred I. duPont Hospital for Children and a provisional staff member in orthopaedic surgery at the Medical Center of Delaware. Dr. Dabney also serves as Assistant Professor of Orthopaedic Surgery at Thomas Jefferson University and Clinical Assistant Professor of Orthopaedic Surgery at Georgetown University Medical Center in Washington, DC. He is a graduate of Thomas Jefferson University and completed his residency in orthopaedics at Howard University in Washington, DC. He completed pediatric orthopaedic research and clinical fellowships at the duPont Hospital for Children. Dr. Dabney is certified by the National Board of Medical Examiners and the American Board of Orthopaedic Surgery. His clinical interests include cerebral palsy, scoliosis, neuromuscular scoliosis and orthopaedic problems related to hematologic disorders. **Provides care in Wilmington, DE**

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**Dr. Gabos**

**Peter G. Gabos, MD**, is a pediatric orthopaedic surgeon at the Nemours/Alfred I. duPont Hospital for Children and Assistant Professor of Orthopaedic Surgery at Jefferson Medical College of Thomas Jefferson University. He graduated from the New York University School of Medicine and completed his training in general surgery and residency in pediatric orthopaedics at St. Luke's Roosevelt Hospital Center in New York. He completed a clinical fellowship in pediatric orthopaedic surgery at the duPont Hospital for Children. Dr. Gabos is certified by the National Board of Medical Examiners and the American Board of Orthopaedic Surgery. His clinical interests include scoliosis and spinal deformity correction, cerebral palsy, sports injuries, minimally invasive techniques (video-assisted thoracoscopic spinal surgery) and neonatal orthopaedic surgery. **Provides care in Wilmington, DE**



**Dr. Holden**

**Candice P. Holden, MD**, is a pediatric orthopaedic surgeon at Virtua/Nemours Children's Health Program and AtlantiCare/duPont Children's Health Program. Dr. Holden is a graduate of the University of Southern California School of Medicine in Los Angeles. She completed training in general surgery and a residency in orthopaedic surgery at the Los Angeles County University of Southern California Medical Center. Dr. Holden completed a fellowship in pediatric orthopaedic surgery at the duPont Hospital for Children. Her clinical interests include pediatric musculoskeletal problems, cerebral palsy, fractures and adolescent sports medicine. **Provides care in Voorhees, NJ and Egg Harbor Township, NJ**



**Dr. Jayakumar**

**Shanmuga S. Jayakumar, MD**, is a pediatric orthopaedic surgeon at the Nemours/Alfred I. duPont Hospital for Children and a consulting staff member in the Orthopaedic Department of the Medical Center of Delaware. Dr. Jayakumar also serves as Clinical Professor of Orthopaedic Surgery at Jefferson Medical College of Thomas Jefferson University, is an affiliate physician at the Cleveland Clinic in Ohio, an honorary visiting professor at the Tamil Nadu Dr. M.G.R. Medical University, and a member of the Board of Directors at Christiana Care in Delaware. He is a graduate of the Madras Medical College at the University of Madras in India, where he also completed his training. He completed orthopaedic surgical residencies at Howard University Hospital in Washington, DC and Thomas Jefferson University Hospital in Pennsylvania. Dr. Jayakumar completed a fellowship in pediatric orthopaedic surgery at the duPont Hospital for Children and is certified by the American Board of Orthopaedic Surgery. His clinical interests include arthrogyrosis, club feet, myelomeningocele, congenital lower limb deficiencies, prosthetics and Charcot-Marie Tooth disease. **Provides care in Wilmington, DE**



**Dr. Kruse**

**Richard W. Kruse, DO, MBA**, is a pediatric orthopaedic surgeon at the Nemours/Alfred I. duPont Hospital for Children and a consulting staff member in the Orthopaedic Department of the Medical Center of Delaware. Dr. Kruse also serves as Associate Professor of Orthopaedic Surgery at Jefferson Medical College of Thomas Jefferson University. He is a graduate of the Philadelphia College of Osteopathic Medicine in Pennsylvania and completed his training at the Tripler Army Medical Center in Honolulu, Hawaii. He completed surgical residencies in pediatric orthopaedics, orthopaedic trauma and microvascular surgery at Walter Reed Army Medical Center in Washington, DC. He also completed a fellowship in pediatric orthopaedics at the duPont Hospital for Children. Dr. Kruse is certified by the American Board of Orthopaedic Surgery. His clinical interests include fractures, trauma and injury rehabilitation. **Provides care in Wilmington, DE**



**Dr. Miller**

**Freeman Miller, MD**, is a pediatric orthopaedic surgeon at the Nemours/Alfred I. duPont Hospital for Children, the Medical Center of Delaware and Thomas Jefferson University. He also serves as Assistant Professor of Orthopaedic Surgery at Jefferson Medical College of Thomas Jefferson University and as both Associate Research Professor in the Department of Mechanical Engineering and Adjunct Research Professor in the Department of Physical Education at the University of Delaware. He is a graduate of the University of Colorado School of Medicine and completed his surgical training at the University of Colorado Medical Center. Dr. Miller completed his residency in orthopaedics at the University of Virginia Medical Center and a fellowship in pediatric orthopaedics at the Hospital for Sick Children in Ontario, Canada. Dr. Miller is certified by the National Board of Medical Examiners and the American Board of Orthopaedic Surgery. His clinical interests include cerebral palsy and gait analysis. **Provides care in Wilmington, DE**

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**Dr. O'Brien**

**Kathleen B. O'Brien, MD**, is a pediatric sports medicine physician at the Nemours/Alfred I. duPont Hospital for Children and the Nemours Children's Clinic Newtown Square. Dr. O'Brien is a graduate of the Penn State University College of Medicine. She completed her residency in pediatrics at St. Christopher's Hospital for Children in Philadelphia, where she also served as chief resident. She completed a fellowship in family medicine and sports medicine at the Drexel University College of Medicine. She is certified by the American Board of Pediatrics and holds subspecialty certification in sports medicine. Dr. O'Brien's clinical interests include sports medicine, acute injuries, sprains and strains, chronic overuse injuries, stress fractures, knee pain, chronic ankle instability and injury prevention.

**Provides care in Wilmington, DE and Newtown Square, PA**



**Dr. Shah**

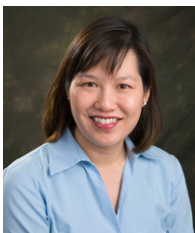
**Suken A. Shah, MD**, is a pediatric orthopaedic surgeon at the Nemours/Alfred I. duPont Hospital for Children, Virtua/Nemours Children's Health Program and AtlantiCare/duPont Children's Health Program. Dr. Shah is a graduate of Jefferson Medical College of Thomas Jefferson University, where he currently serves as Assistant Professor of Orthopaedic Surgery. He completed a residency in orthopaedic surgery at Thomas Jefferson University Hospital and a fellowship in pediatric orthopaedics at the duPont Hospital for Children. Dr. Shah is certified by the American Board of Orthopaedic Surgery. His clinical interests include scoliosis and spinal deformities, minimally invasive techniques (video-assisted thoracoscopic spinal surgery), pediatric and adolescent sports medicine and cerebral palsy.

**Provides care in Wilmington, DE, Voorhees, NJ and Egg Harbor Township, NJ**



**Dr. Thacker**

**Mihir M. Thacker, MD**, is a pediatric orthopaedic surgeon at the Nemours/Alfred I. duPont Hospital for Children and Assistant Professor of Orthopaedic Surgery at Jefferson Medical College of Thomas Jefferson University. Dr. Thacker is a graduate of the Seth G. S. Medical College and the King Edward Memorial Hospital in Mumbai, India. He completed his orthopaedic residency at the Lokmanya Tilak Municipal Memorial Medical College and General Hospital in Mumbai, India. He completed pediatric orthopaedic fellowships at the National University Hospital in Singapore, the Hospital for Joint Diseases at New York University and the duPont Hospital for Children. Dr. Thacker also completed a fellowship in Musculoskeletal Oncology at Jackson Memorial Medical Center at the University of Miami in Florida. His clinical interests include bone and soft tissue tumors, hip disorders, limb length discrepancy and deformity correction, congenital limb anomalies and skeletal dysplasia. **Provides care in Wilmington, DE**



**Dr. Ty**

**Jennifer M. Ty, MD**, is a pediatric orthopaedic surgeon at the Nemours/Alfred I. duPont Hospital for Children. Dr. Ty is a graduate of the UCLA David Geffen School of Medicine, and she completed her orthopaedic residency at Harvard University. She completed a pediatric orthopaedic surgery fellowship at Children's Hospital Boston, and a hand and upper extremity fellowship at the University of California, San Francisco. Her clinical interests include congenital hand conditions and traumatic disorders of the upper extremity. **Provides care in Wilmington, DE**

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For appointments with other Nemours specialists or more information about other Nemours programs, please call 800-416-4441.

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