Michael Shishov, MD, MPH
Division Chief
Kaleo Ede, MD
Andrea Ramirez, MD, MEd

**COMMON DIAGNOSES**
Benign pain syndromes (including growing pains)
Henoch-Schönlein Purpura (HSP)
Hypermobility Syndromes
Juvenile Ankylosing Spondylitis (JAS, Spondyloarthropathy)
Juvenile Dermatomyositis
Juvenile Idiopathic Arthritis (JIA, Juvenile Rheumatoid Arthritis)
Kawasaki Disease
Lyme Disease
Mixed Connective Tissue Disease
Raynaud’s Disease/Phenomenon
Reactive Arthritis
Recurrent Fevers (Periodic Fever Syndromes)
Rheumatic Fever/Poststreptococcal arthritis
Sarcoidosis
Scleroderma
Systemic Lupus Erythematosus (SLE, Lupus)
Uveitis (Iridocyclitis)
Vasculitis

**PROGRAMS AND SERVICES**
Infusions (Actemra, Cytoxan, IVIG, Remicade, Rituxan, Solumedrol)
Joint injection with interventional radiology guidance
Pediatric Lupus Clinic *(see back)*
Subcutaneous injection teaching for families
Joint injections in the clinic

**VITAL STATISTICS**
- Phoenix Children’s operates Arizona’s only dedicated pediatric rheumatology program providing family-centered, multidisciplinary care to children living with rheumatic disease.
- According to the Greater Southwest Chapter of the Arthritis Foundation, there are 7,000 children in Arizona with juvenile idiopathic arthritis (JIA) and other rheumatic diseases.
- Michael Shishov, MD, MPH, a board-certified pediatric rheumatologist, leads the team. Two other pediatric rheumatologists, Kaleo Ede, MD, and Andrea Ramirez, MD, MEd, joined the division in 2008 and 2010 respectively.
- The team also includes a pediatric nurse, social worker, nutritionist and medical assistants.

- Certain rheumatology diseases are more aggressive in children than they are in adults. Pediatric-trained rheumatologists understand these nuances and adjust the care of their patients accordingly.
- Because children are always growing, the Hospital’s pediatric rheumatologists are familiar with adjusting medication dosages over time to compensate for changes in height and weight.
- The clinic also offers injection procedures that are conducted via interventional radiology through the use of fluoroscopy, which ensures proper placement of the needle in the joint and increases the efficacy of the treatment.
- Left untreated or under-treated, rheumatic diseases can cause disability in childhood and negatively affect a child’s growth and development.
- Proper treatment from a pediatric rheumatologist who appreciates the different expression of rheumatic disease in children and the complexity of treating children, offers hope for what would otherwise be an uncertain future.
INTRODUCTION

The Phoenix Children’s Hospital Pediatric Lupus Clinic specializes in the care of children diagnosed with Systemic Lupus Erythematosus (SLE or lupus), an autoimmune disease where a person’s immune system attacks its own healthy cells and tissues, causing inflammation and damage to various organs. Pediatric rheumatologists diagnose and treat patients with lupus. Frequently, pediatric lupus can cause kidney inflammation, requiring consultation with a pediatric nephrologist. Early diagnosis and timely treatment can help prevent and limit organ damage.

PROGRAM DESCRIPTION

The goal of the Pediatric Lupus Clinic is to provide comprehensive, compassionate, expert clinical care and facilitate the best possible quality of life for children with lupus. Its approach is to diagnose early, perform timely screening to detect organ involvement and use evidence-based, state-of-the-art treatments.

SERVICES PROVIDED

The Pediatric Lupus Clinic offers the following services:
- Diagnosis and long-term management of pediatric lupus
- Onsite laboratory with urinalysis, X-ray and bone mineral density testing
- Onsite infusion therapies
- Onsite vaccinations and TB skin testing
- Consultation with social work and nutrition

CLINIC SCHEDULE

- Clinic is held twice a month
- Care is family- and child-centered
- Patients see both the rheumatologist and nephrologist on the same day
- Following patient evaluation, the team meets to collaborate and develop joint recommendations and management
- The recommendations are then passed along to the family prior to departure from the clinic

CLINICAL TEAM

Michael Shishov, MD, MPH, is the director of the Pediatric Lupus Clinic, and division chief of Pediatric Rheumatology at Phoenix Children’s Hospital. Dr. Shishov is joined on the team by the following pediatric specialty-trained medical professionals:
- Kaleo Ede, MD, Pediatric Rheumatology
- Andrea Ramirez, MD, MEd, Pediatric Rheumatology
- Bruce Morgenstern, MD, Pediatric Nephrology
- Karen Papez, MD, Pediatric Nephrology
- Laura Kelly, RN, Pediatric Rheumatology Nurse
- Meghann James, RN, BSN, Pediatric Nephrology Nurse
- Sandra Coorough, ACSW, LCSW, Social Work
- Janice McDonough, RD, Nutrition

REFERRAL CRITERIA

Any new patient under the age of 18 with a diagnosis of lupus and a concern for kidney inflammation can be referred to the clinic. Concerns for kidney inflammation can include but are not limited to:
- Protein and/or blood in the urine
- High blood pressure
- High serum creatinine

HOW TO MAKE A REFERRAL

The Pediatric Lupus Clinic accepts referrals from physicians of any specialty. To make a referral or for more information about the clinic, please call (602) 933-0909.