**Division Introduction**

Under the direction of Marilynn G. Punaro, M.D., Professor and Master of the Fashena College, the Division of Pediatric Rheumatology at UT Southwestern Medical Center serves as a major resource for pediatric rheumatology in North Texas. In the United States there are approximately 300 board-certified pediatric rheumatologists, and five of those are at UT Southwestern. The Division receives referrals from all other children’s hospitals in the Dallas – Fort Worth metroplex, as well as more distant areas.

The Division operates the largest and longest established multispecialty clinic for children with rheumatic diseases in the region. In the rheumatology clinics at Texas Scottish Rite Hospital for Children (TSRHC) and Children’s Medical Center Dallas, diseases managed include juvenile idiopathic arthritis, systemic lupus erythematosus, juvenile dermatomyositis, and scleroderma. Faculty also have an interest in the diagnosis and management of a variety of rarer rheumatic diseases, including systemic vasculitis and auto-inflammatory conditions.

The Division is actively involved in both translational and clinical research endeavors directed toward improving pathophysiologic understanding, treatment options, and outcomes in a variety of pediatric rheumatologic disorders.

Pediatric Rheumatology has a significant commitment to medical education, offering a rheumatology elective for pediatric residents and fourth-year medical students. The fellowship training program is one of the only 37 ACGME-accredited programs for pediatric rheumatology; it has continuously trained fellows from all over the world for more than 30 years.

**Faculty**

In addition to Dr. Punaro, the Division has three full-time and two part-time faculty members, and three fellows. Dr. Leandra Woolnough joined the Rheumatology faculty in July 2017 after completing her pediatric rheumatology fellowship at UT Southwestern.

**Leandra Woolnough, M.D.**

Assistant Instructor

**B.S.**

Johns Hopkins University, Baltimore, MD, 2007

**M.D.**

University of Texas Southwestern Medical Center, Dallas, TX, 2011

**Postdoctoral Training**

- Residency, Pediatrics
  - UT Southwestern Medical Center/Children’s Health, Dallas, TX, 2011-2014
- Fellowship, Pediatric Rheumatology
  - UT Southwestern Medical Center/Children’s Health, Dallas, TX, 2014-2017

**Interests**

Defining the role of musculoskeletal ultrasound for the diagnosis and management of juvenile idiopathic arthritis
Rheumatology Faculty

Marilynn Punaro, M.D.
Professor, Division Chief

Julie Fuller, M.D.
Assistant Professor

Lorien Nassi, M.D.
Assistant Professor

Katie Stewart, M.D.
Assistant Professor

Leandra Woolnough, M.D.
Assistant Instructor

Tracey Wright, M.D.
Assistant Professor

Honors / Awards

Julie Fuller

- Best Doctors in Dallas, *D Magazine*
- Texas Super Doctor, *Texas Monthly Magazine*

Marilynn Punaro

- Best Pediatric Specialists in Dallas, *D Magazine*
- Texas Super Doctor, *Texas Monthly Magazine*
- Best Doctors in America

Katie Stewart

- Best Doctors in Dallas, *D Magazine*
- Texas Super Doctor, *Texas Monthly Magazine*

Conference Presentations

Woolnough L, Wilkes D, Kanaan Y, Wright T.

Poster, American College of Rheumatology Pediatric Rheumatology Symposium, Houston, TX, May 2017
“Novel Approach to Quantifying Joint Pathology Via Musculoskeletal Ultrasound in Newly Diagnosed Juvenile Idiopathic Arthritis”
Education and Training

The Division of Pediatric Rheumatology has a significant commitment to medical education and is actively involved in the teaching of fourth-year medical students and pediatric residents, in addition to its fully-accredited Pediatric Rheumatology Fellowship Program. Trainees in other departments also spend time in the rheumatology clinics.

Medical Students

Third-year medical students rotate through the arthritis clinic during their pediatric rotation, and an elective is available for fourth-year students. Tracey Wright, M.D., preceptor for this elective, and the other pediatric rheumatology faculty teach students to:

- Develop a working differential diagnosis of arthritis in childhood
- Learn a complete joint examination and the physical evaluation of rheumatologic patients
- Examine and discuss patients from all major collagen vascular disease categories: juvenile arthritis, dermatomyositis, scleroderma, and systemic lupus erythematosus (SLE)

Residents

The Division provides the major instruction to pediatric residents in the evaluation of the musculoskeletal system and the assessment of the rheumatic diseases. Division faculty provide direct teaching for pediatric residents in the regular departmental clinical conferences, as well as part of the inpatient consultation service. Didactic teaching for the pediatric residents includes, but is not limited to:

- Differential diagnosis of arthritis in childhood
- Juvenile idiopathic arthritis
- Systemic lupus
- Juvenile dermatomyositis
- Evaluation of musculoskeletal pain in children

A rheumatology elective is available for pediatric residents. Dr. Wright is the Course Director for elective; the objectives of this elective are to:

- Develop a working differential diagnosis of arthritis in childhood
- Learn a complete joint examination and the physical evaluation of rheumatologic patients
- Examine and discuss patients from all major collagen vascular disease categories: juvenile arthritis, dermatomyositis, scleroderma, and systemic lupus erythematosus (SLE)

The residents see outpatients in the clinics under the supervision of the division faculty. A notebook of selected articles about rheumatic disease, including original material, has been developed as curriculum for the elective. Residents are encouraged to attend clinical conferences which offer didactic teaching for the fellows.

Fellows

The Division of Pediatric Rheumatology at UT Southwestern has one of only 37 ACGME-accredited fellowship training programs in pediatric rheumatology in the United States.
Fellows develop competence in the diagnosis and management of rheumatic and other connective tissue diseases in children and gain a background in laboratory techniques of basic immunology and molecular biology as well as experience and education in application of the scientific method to clinical and laboratory research.

The large and varied patient population available at Children’s Medical Center Dallas and Texas Scottish Rite Hospital for Children (TSRHC) is extensive. The Arthritis Clinic at TSRHC is one of the longest established pediatric rheumatology clinics in the country and is the major regional referral center for North Texas.

Between the two hospitals, Division faculty see more than 4500 outpatient visits per year in eight clinics per week. They see approximately 500 inpatient admissions per year and inpatient rounds are conducted daily. There are more than 1000 new patients per year. Trainees see and manage multiple patients of each major connective tissue disease and are exposed to more rare disorders.

As required by the American Board of Pediatrics (ABP), all trainees spend a portion of their time involved in research. The Division collaborates with basic and translational scientists at TSRH and UTSW. Lab activities include journal club, work in progress and seminars with invited speakers. Research projects are tailored to the interests and capabilities of the individual trainees. Ongoing clinical trials and the opportunity to do clinical research are also available.

The three-year Pediatric fellowship training program aims to provide individuals with sufficient background to pursue a career of independent research, teaching and managing patients with a wide variety of pediatric rheumatic diseases.

Tracey Wright, M.D., is the Program Director for the Pediatric Rheumatology Fellowship Training Program. All other pediatric rheumatology faculty are actively involved in training the pediatric rheumatology fellows.

**Current Fellows**

<table>
<thead>
<tr>
<th>Fellowship Year</th>
<th>Name</th>
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<tbody>
<tr>
<td>3rd</td>
<td>Keiji Akamine, M.D.</td>
</tr>
<tr>
<td>2nd</td>
<td>MaiLan Nguyen, M.D.</td>
</tr>
<tr>
<td>1st</td>
<td>Vy Do, M.D.</td>
</tr>
</tbody>
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**Research Activities**

All division faculty are members of the Childhood Arthritis and Rheumatology Research Alliance (CARRA), which is dedicated to collaborative multicenter research on the cause and treatment of childhood rheumatic disease. They have participated in multiple clinical research studies including:

- Biologic therapies for treatment of resistant arthritis
- Effects of nutrition on systemic lupus
- Comparative effectiveness trials in localized scleroderma and systemic juvenile arthritis

A large and varied patient population has provided the ability to conduct studies in several areas, and faculty have been involved in clinical research projects involving clinical trials of new therapies, as well as multicenter studies in pathogenesis and epidemiology of childhood rheumatic diseases.

They also have been involved in translational research, helping to make a bridge between the basic science researchers in pediatric collagen vascular diseases and the patients. Tracey Wright M.D. is the Principal Investigator and Marilynn Punaro
MD serves as Co-Principal Investigator for the Clinical and Sample Core of the NIAMS 1P50AR070594-01 Center for Lupus Excellence.

**Clinical Activities**

The Division offers expert evaluation, counseling, and treatment of rheumatic diseases found in children, which include the many forms of child arthritis, such as juvenile idiopathic arthritis, formerly known as juvenile rheumatoid arthritis. Faculty also manage children with lupus, juvenile dermatomyositis, morphea/scleroderma, vasculitis, and a number of other conditions.

Clinical services are offered at Children’s Medical Center Dallas and at Texas Scottish Rite Hospital for Children’s Arthritis Clinic, which is one of the longest-established pediatric rheumatology clinics in the country and the major referral center for North Texas.

Services provided by UT Southwestern pediatric rheumatology physicians include:

- Evaluation and treatment of children with suspected rheumatic diseases
- Physical and occupational therapy evaluations and recommendations
- Coordination of team care, including ophthalmology, dental, and dietary counseling
- Education about specific rheumatic conditions
- Psychosocial support

**2017 Patient Statistics**

**Texas Scottish Rite Hospital**

<table>
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<tr>
<th>Service</th>
<th>Count</th>
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<tbody>
<tr>
<td>Outpatient Visits</td>
<td>2,787</td>
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<tr>
<td>New Outpatient Visits</td>
<td>366</td>
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<tr>
<td>Infusions</td>
<td>469</td>
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</table>

**Children’s Medical Center Dallas**

<table>
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<th>Service</th>
<th>Count</th>
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</thead>
<tbody>
<tr>
<td>Outpatient Visits</td>
<td>1,850</td>
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<tr>
<td>New Outpatient Visits</td>
<td>737</td>
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<tr>
<td>Inpatient Consults</td>
<td>541</td>
</tr>
</tbody>
</table>

**Grant Support**

**Leandra Woolnough**

Grantor: CARRA-AF Small Grant  
Title of Project: Longitudinal Musculoskeletal Ultrasound Assessment in Juvenile Idiopathic Arthritis  
Role: Principal Investigator (Co-PI – Benham)  
Dates: 02/2018 – 01/2019

**Tracey Wright**

Grantor: NIAMS 1P50AR070594-01  
Title of Project: Center for Lupus Excellence  
Role: Principal Investigator (Co-PI Marilynn Punaro) for the Clinical and Sample Core  
Dates: 09/2016 – 08/2021
Peer-Reviewed Publications


