



COLUMBIA UNIVERSITY
MEDICAL CENTER

In affiliation with
NewYork-Presbyterian Hospital

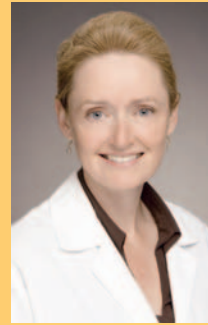
THE CENTER FOR PRENATAL PEDIATRICS



We Touch Lives



Welcome from the Director



At the Center for Prenatal Pediatrics, we know pregnancy involves caring for two patients – mother and baby. In high-risk cases where the baby has a birth defect, the mother may need specialized adult care while the fetus requires a pediatric focus.

The Center's patients benefit from a long tradition of professional collaboration between specialty areas and physicians at NewYork-Presbyterian Hospital and Columbia University Medical Center. Through years of experience, it has become clear to our renowned experts that optimal care for these complex cases is best achieved through a systematic approach of interdisciplinary collaboration. Our Center of leading specialists provides a full range of prenatal diagnostic testing, specialist consultations, genetic counseling and pregnancy management with planning for future pediatric care.

Early diagnosis, thorough evaluation and ongoing monitoring allow both physicians and families to maximize prenatal information for the medical and emotional preparation of the birth of an affected baby. We believe this interdisciplinary and unified approach increases positive pediatric outcomes. We are proud to be part of this groundbreaking collaborative effort in the Center for Prenatal Pediatrics, setting new standards of care and support for pregnant women and their families.

Sincerely,

Lynn L. Simpson, MD

Medical Director, Center for Prenatal Pediatrics

Expert Care | Individual Support

The **Center for Prenatal Pediatrics** is dedicated to helping pregnant women and their families when a birth defect or genetic syndrome is suspected before the baby is born. These pregnancies may be at risk for a premature or complicated delivery that requires rigorous prenatal management and close coordination with pediatric specialties. We are committed to making sure patients are cared for with the most complete, up-to-date information and testing, using a multidisciplinary approach that begins in the prenatal period and continues after birth with pediatric follow-up. The result: a customized treatment plan tailored to our patients' needs.

The Center is a joint collaboration between the Departments of Obstetrics & Gynecology, Pediatrics and Surgery and is physically located in the heart of the Prenatal Diagnostic Center. Center patients benefit from resources, research and world-renowned expertise of physicians in both Columbia University Medical Center and NewYork-Presbyterian Hospital. Establishment of the Center was partially funded by a Community Grant from the March of Dimes.

The Center for Prenatal Pediatrics is the only such comprehensive care center in the tri-state area.



THE COLUMBIA DIFFERENCE

Columbia University Medical Center/NewYork-Presbyterian Hospital is ranked #6 in the nation by *U.S. News and World Report's Best Hospitals*. NewYork-Presbyterian Hospital scored higher in more specialties than any other hospital in the New York area.

The State of New York has designated our Maternal Fetal Medicine Division as a Regional Perinatal Center, the highest hospital classification. This distinction means that we are able to accept and care for the most difficult and highest-risk cases.

One of the largest most experienced maternal fetal medicine teams in the country. Over 50% of all deliveries in our department are designated high risk at increased risk.

The Morgan Stanley Children's Hospital at NewYork Presbyterian is a state-of-the-art facility featuring 58 NICU beds, a newly renovated Labor & Delivery floor integrated into the Children's Hospital, and high risk monitoring facilities designed to provide care for any contingency with a family-centered approach.

One of the first centers in the world to successfully perform a pediatric extracorporeal membrane oxygenation (ECMO) therapy for infants and children with life-threatening heart/lung failure.

Through NewYork-Presbyterian Hospital Emergency Medical Service our neonatal intensive care unit is equipped to transport premature and critically ill newborns daily from hospitals around the tri-state area and will arrange for transports from anywhere in the world.

America's Next Top Doctors list features more physicians from NewYork Presbyterian Hospital than any other hospital in the Nation.

A recently released report by the New York State Department of Health has shown that we are leaders in the state for best outcomes for surgeries performed on children with congenital heart defects.

Our MFMU research grant ranks 1st in quality performance among fourteen top academic medical centers nationwide; offering our patients the most up-to-date information and alternatives in research and prenatal care.

Understanding the Basics

What is “Prenatal Pediatrics”?

The term “Prenatal Pediatrics” illustrates the principle that caring for babies with abnormalities starts before birth and continues afterwards with neonatal and long-term pediatric follow-up.

This approach requires involvement of prenatal and postnatal specialists such as perinatologists (also known as maternal fetal medicine specialists), neonatologists, pediatric cardiologists, pediatric surgeons, geneticists and physicians from all pediatric subspecialties. The philosophy of Prenatal Pediatrics is that prenatal and neonatal care, education, and research are best accomplished collaboratively. Health care professionals in multiple departments throughout Columbia University Medical Center and NewYork-Presbyterian Hospital work together to ensure the patients’ program of care encompasses all diagnostic, clinical and support services before and after birth. The Center serves as the hub of this collaboration by:

- coordinating appointments with specialists
- providing counseling
- ensuring that patients receive the best care

Central to the success of the Center is the weekly multidisciplinary Prenatal Pediatrics conference in which each patient’s unique situation is presented and discussed to develop a consistent plan for the best management of the pregnancy and newborn period.

Our patients entrust the Center to coordinate every aspect of their care.

“ In the two days from the time of the ultrasound to our appointments at the Center, we went from despair to cautious optimism. ”

~ father of baby with a congenital diaphragmatic hernia



The Center is led by an interdisciplinary team of physicians who are experts in their field: (from left to right) Charles Stolar, M.D., Pediatric Surgery; Mary E. D’Alton M.D., Maternal Fetal Medicine (MFM); Ronald Wapner, M.D., MFM; Lynn Simpson M.D., MFM; Richard Polin, M.D., Neonatology; Charles Kleinman, M.D., Pediatric Cardiology.

Areas of Specialty

Each patient is unique and treated individually, so treatment plans are tailored specifically for the patient’s needs. Potential tests and consultations include:

- Anesthesiology
- Cyto genetics
- Fetal Therapy: Prenatal Medical and Surgical Procedures
- Clinical Genetics and Cyto genetics
- Maternal Fetal Medicine (High-Risk Obstetrics)
- Neonatology
- Specialized Procedures for Multiple Gestations
- Radiology
- Pediatric Cardiology
- Pediatric Cardiothoracic Surgery
- Pediatric Gastroenterology
- Pediatric Nephrology
- Pediatric Neurology and Pediatric Neurosurgery
- Pediatric Orthopedics
- Pediatric Otolaryngology
- Pediatric Plastic Surgery
- Pediatric Surgery
- Pediatric Urology
- Prenatal Imaging: Ultrasound (Including 3D & 4D), Fetal Echocardiography, Ultrafast Fetal Magnetic Resonance Imaging (MRI)
- Prenatal Diagnostic Procedures: Amniocentesis, Chorionic Villus Sampling (CVS), Fetal Blood Sampling (PUBS)
- Psychiatry and Social Services



Patient Referrals

It can be stressful and overwhelming for a family to discover their baby may have a fetal anomaly or genetic syndrome. They wonder what the next step should be and where they should go for advice. As a result, patients contact the Center directly or they are referred by a physician.

Physician Referrals: A referring physician may call the Center for further consultation, co-management or transfer of a patient carrying a baby with an abnormality or requiring delivery at our facility for prenatal pediatric care. The referring physician will be provided with timely feedback regarding our findings and recommendations. We are also available for any questions or issues that arise.

Self-Referrals: Patients may call the Center directly to schedule a consultation. A counselor will work with the patient to acquire medical records, answer questions and provide support.

No matter how a patient is referred to the Center, we understand the need for prompt testing and consultation with all relevant specialties and schedule visits quickly and conveniently. Our Care Coordinator will help ease patients' anxieties by providing compassionate, individualized attention from the first contact.

Common Fetal Anomalies

As a level 3 Regional Perinatal Center we handle common and rare high-risk cases.

Congenital Heart Disease

- Aortic stenosis
- Atrioventricular canal defect
- Coarctation of the aorta
- Congenital heart block
- Double outlet right ventricle
- Hypoplastic left heart syndrome (HLHS)
- Hypoplastic right ventricle
- Pulmonary stenosis
- Tetralogy of Fallot
- Transposition of the great arteries
- Ventricular septal defect (VSD)

Chest Abnormalities

- Bronchopulmonary sequestration (BPS)
- Congenital cystic adenomatoid malformation (CCAM)
- Congenital diaphragmatic hernia (CDH)
- Congenital high airway obstruction syndrome
- Esophageal atresia
- Tracheoesophageal fistula

Central Nervous System Abnormalities

- Aqueductal stenosis
- Dandy Walker malformation
- Hydrocephalus
- Intraventricular hemorrhage
- Neural tube defects

Abnormalities Specific to Multiple Gestation

- Discordant anomalies
- Twin-reversal arterial perfusion sequence
- Twin-to-twin-transfusion syndrome

Urologic Anomalies

- Bladder outlet obstruction
- Dysplastic kidney
- Hydronephrosis
- Hydroureter
- Polycystic kidney disease

Abdominal Defects

- Duodenal atresia
- Fetal abdominal mass
- Fetal bowel obstruction
- Gastroschisis
- Omphalocele

Skeletal Abnormalities

- Cervical teratoma
- Hemivertebrae
- Sacrococcygeal teratoma
- Skeletal dysplasia



What to Expect

During your first consultation

Complex high-risk pregnancies involving a birth defect or genetic syndrome usually require consultation with several specialists, a variety of diagnostic tests and/or therapeutic procedures over multiple visits. What sets the Center apart is its convenient, integrated approach. We offer comprehensive care for patients that include:

- **One-on-One Support:** A full-time clinical Care Coordinator partners with patients and guides them through each step of their treatment plan such as scheduling appointments, following-up with physicians, explaining diagnostic information and providing moral support.
- **Convenient Care:** A personally tailored program of diagnostic testing and consultations with expert specialists conveniently scheduled on one day to reduce travel time and multiple visits. Our team also coordinates follow-up with the referring doctor.
- **The Best Advice:** Our patients benefit from advice from specialists and physicians across disciplines who meet regularly to ensure patients are receiving the most up-to-date diagnosis and treatment. An individual Comprehensive Care Conference summarizing the result of the day's consultations gives patients a complete and accurate summary of their treatment plan.

After your initial consultation

In addition to initial consultations on the first visit, all cases are thoroughly discussed at our weekly Prenatal Pediatrics conference, attended by a multidisciplinary team of physicians. Results from diagnostic tests, consultations and expert opinions are reviewed. Individual pregnancy plans are outlined and outcomes of ongoing cases are discussed. This collaboration optimizes patient management and improves care.

Some patients come to the Center for a second opinion and return to their doctor for delivery at their local hospital. Other patients transfer their care to ensure their baby receives specific specialized pediatric care at the time of birth and in the immediate neonatal period.

At the Center, we fully support our patients and we believe families should make decisions that are right for them. Decisions on treatment plans are at the discretion of the patient, her family and referring physician. Our goal is to provide accurate, comprehensive information to empower our patients with information so they can confidently make informed decisions.



Resources

Call or visit these websites to learn more about the Center for Prenatal Pediatrics and its partners at Columbia University Medical Center/NewYork-Presbyterian Hospital:

The Center for Prenatal Pediatrics

1-877-the-baby
www.prenatalpediatrics.org

OB/GYN Maternal Fetal Medicine

1-212-305-7334
www.columbiaobgyn.org/services/high_risk_obstetrics

Morgan Stanley Children's Hospital of NewYork-Presbyterian Hospital/ Columbia University Medical Center

1-800-245-KIDS
www.childrensnyp.org

Morgan Stanley Children's Hospital's Neonatal Intensive Care Unit

1-212-342-8600
www.nicu-at-babies.org

Virtual Tour: Carmen and John Thain Labor and Delivery Unit

1-212-342-1750
www.columbialaboranddelivery.org

The Divison of Pediatric Surgery

1-212-305-8402
www.babysurg.org

The Cleft and Craniofacial Center

1-212-305-4346
www.nypchildren.org/about/craniofacial.html

Pediatric Cardiac Surgery

1-212-305-5975
www.pedsheartmd.org

March of Dimes

1-914-997-4488
www.marchofdimes.com



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