



# CARDIOLOGY

## Children's National Heart Institute

The team of internationally respected pediatric cardiologists at Children's National Heart Institute provides care for common to complex heart conditions and is one of the largest, most experienced programs in the region. Children's National Heart Institute provides multidisciplinary subspecialty care, with access to more than 40 subspecialties. We use the most sophisticated diagnostic and treatment technology to provide the best possible care for each individual patient and their family.



Children's National.

# FEATURES



## **Advanced Cardiac Technologies**

Using the most sophisticated diagnostic and treatment technology, Children's National provides the most up-to-date care. Whether it is cardiac MRI to obtain detailed images of the heart, advanced monitoring devices in the cardiac intensive care unit (CICU) or catheters and devices specifically designed for children, care teams use the equipment most suitable for providing the best possible care.



The **Telehealth team** supports families, community providers, subspecialists and partner organizations by providing more convenient, remote access to quality clinical care and education using technology.



## **Supportive Care and Family**

**Resources** are an integral part of patient care at Children's National. Child life specialists and social workers prepare families for medical procedures with psychological and emotional support before, during and after treatment.

# SPECIALIZED CARDIOLOGY PROGRAMS

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## **CARDIAC CATHETERIZATION**

The cardiac catheterization team not only performs cardiac catheterization procedures, but also helps develop new techniques that lead to safer, more accurate treatments and better patient care. We perform hundreds of catheterization procedures each year, treating patients with complex heart, blood vessel and valve conditions, including pulmonary artery stenosis.

## **CARDIAC IMAGING**

Cardiac Magnetic Resonance Imaging (MRI) takes detailed pictures of a heart's structures and function to diagnose congenital defects and provide non-invasive evaluation for complex conditions. The study is performed without radiation exposure and provides high-resolution images of the vascular structures and accurately measures hemodynamic parameters such as heart size and function, cardiac output, blood flow volumes and pressure gradients. Our unique Interventional Cardiac MRI program allows us to perform MRI procedures and cardiac catheterization procedures on the same day, reducing the need for sedation and multiple procedures. As a leader in the non-invasive imaging of congenital heart disease, the cardiology team pioneered the use of digital echocardiography, and remains at the forefront of the development of new technologies to optimize patient care.

## **CARDIAC INTENSIVE CARE UNIT (CICU)**

Children's National is home to the region's first and only pediatric CICU, featuring private patient rooms and state-of-the-art technology, to monitor and treat patients in a safe environment. The unit is recognized as a Beacon unit for quality and safety by the American Association of Critical Care Nurses. CICU physicians are trained in multiple specialties, including critical care, cardiology and anesthesiology and are leaders in innovative care and clinical research in cardiac intensive care.

## CARDIAC NEURODEVELOPMENTAL OUTCOME PROGRAM (CANDO)

This is the region's only program designed to monitor the neurodevelopmental growth in children born with congenital heart disease (CHD). The CANDO team provides regular assessment and treatment planning for specific developmental, behavioral and neurocognitive problems that children with CHD may face.

## ELECTROPHYSIOLOGY PROGRAM

Children's National uses electrophysiology to manage arrhythmias and syncope. In situations that require more delicate management, cryoablation is used. Three-dimensional computer mapping facilitates accurate arrhythmia localization and minimizes radiation exposure. Our team has been at the forefront of pacemaker and ICD innovation. We have developed and perfected techniques for pacemaker and defibrillator implementation in children, including transvenous, epicardial, hybrid, broken lead extraction and resynchronization therapy.

## PRENATAL CARDIOLOGY PROGRAM

Comprehensive cardiac care begins in utero. Our fetal cardiologists partner with referring maternal fetal medicine specialists, obstetricians and subspecialists. Once a diagnosis is made, parents are counseled so they can prepare for what to expect for the duration of the pregnancy and after delivery, maximizing planning time and allowing for early treatment of a variety of heart abnormalities – often within moments of delivery.

## PREVENTIVE CARDIOLOGY PROGRAM

Our team of experts focuses on improving the diets and lifestyles of pediatric patients to reduce cholesterol and decrease the risk of developing cardiovascular disease. These risk factors include abnormal cholesterol, hypertension, increased weight and other adverse lifestyle choices, such as lack of exercise and tobacco use.

## WASHINGTON ADULT CONGENITAL HEART PROGRAM (WACH)

In partnership with MedStar Washington Hospital Center, WACH provides continuity of care for adults with congenital heart disease, including survivors of early surgery, ensuring care from birth through adulthood.

## CONVENIENT OUTPATIENT LOCATIONS



### Children's National Hospital

111 Michigan Ave. NW  
Washington, DC 20010

Children's National provides outpatient cardiac care at nearly 20 locations throughout Washington, D.C., Maryland and Virginia to bring an extensive range of evaluation and clinical treatment to patients with CHD closer to their homes.

To view our locations, visit

**[ChildrensNational.org/CardiologyLocations](https://ChildrensNational.org/CardiologyLocations)**

## CONSULTATIONS & REFERRALS

For more information or to make an appointment, call

**202-476-2020**

For more information, visit

**[ChildrensNational.org/Cardiology](https://ChildrensNational.org/Cardiology)**



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