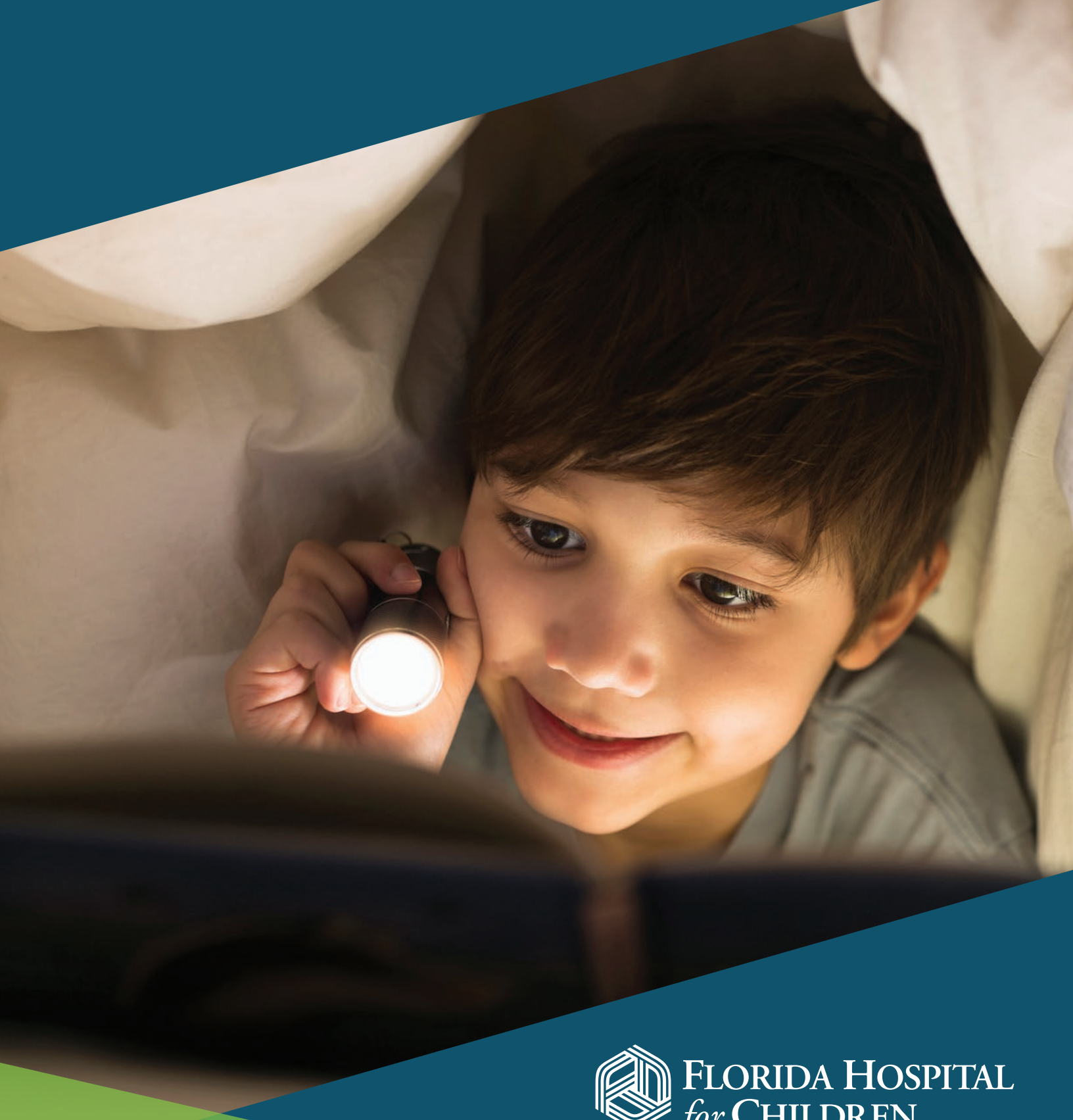


Children's Heart Care

SYMPTOMS AND TREATMENTS GUIDEBOOK



FLORIDA HOSPITAL
for CHILDREN



Extraordinary care for extraordinary kids.

A hospital can be an overwhelming place, especially for children and their parents. *Florida Hospital for Children* was designed from the ground up to be a comforting, nurturing and immersive environment that helps ease the stress and anxiety associated with a hospital stay.

At *Florida Hospital for Children*, your child's care will be handled by a highly skilled team of medical professionals with extensive experience in pediatric cardiology. We treat a wide range of conditions from arrhythmias to congenital heart defects, using highly advanced tools to accurately diagnose potential conditions and deliver the treatment that gives you and your child the best chance for a positive outcome.





A healing experience designed for your child.

One of the premier children's health systems in the nation, *Florida Hospital for Children* sets the standard for innovation, quality and comprehensive care. With the help of Walt Disney Imagineering and input from patients, families and clinicians, our seven-story, technologically advanced facility features a child-centered healing environment. Each floor of the hospital is themed to natural environments inspired by classic Disney-animated movies, such as *The Little Mermaid*, *The Lion King*, *Brother Bear* and *The Jungle Book*.

Our priority at *Florida Hospital for Children* is to do everything we can to make your child, and your family, whole again. We provide the highest quality of care possible, giving your child the best chance at a full recovery. And we want you to feel absolutely confident that entrusting your child's care to our physicians and nurses is the right decision.



We care about your care.

LEARN MORE ABOUT SOME OF THE CONDITIONS AND DISORDERS WE TREAT.

VENTRICULAR SEPTAL DEFECT

A ventricular septal defect, or VSD, is characterized by one or more holes in the septum, which is the wall that separates the two ventricles of the heart. It is a common congenital heart defect that causes leaking between the ventricles, typically resulting in heart murmur, failure to thrive and sweating while feeding. If the VSD is small, it may close on its own without surgery. In fact, nearly 50 percent of VSDs close spontaneously within the first year. For those that do not, the hole can be corrected with a patch, a low-risk procedure with excellent long-term results.

TETRALOGY OF FALLOT

Tetralogy of Fallot, also known as TOF, is a condition where the heart has several malformations, including a large hole between the ventricles, an enlarged aorta straddling the hole, a narrowing of the pulmonary artery that leads to the lungs, and a thickened right ventricle. Newborns with TOF often turn blue in the first three months. Symptoms may also include shortness of breath, rapid breathing, fainting, irritability and fatigue, as well as abnormally round-shaped nails on the fingers and toes. The only treatment option for TOF is surgery to repair the hole between the ventricles and improve the flow of blood to the pulmonary arteries.

PATENT DUCTUS ARTERIOSUS

In the womb, most of the blood bypasses a developing baby's lungs, instead traveling through the ductus arteriosus, or DA. After the baby is born, the DA typically closes on its own and the blood flow starts to travel to the lungs permanently. Patent ductus arteriosus is a condition where the DA doesn't close and the flow of blood to the lungs isn't properly regulated. Children with this condition may show a range of symptoms such as breathing difficulties right after birth, rapid breathing, a heart murmur, poor growth, problems with feeding and periodic bouts of pneumonia. In most cases, we recommend waiting until the child is one to two years old before performing surgery. However, if the condition is life threatening, surgery should be performed immediately to close the DA.

PATENT FORAMEN OVALE

As a baby develops in the womb, oxygen-rich blood from the placenta bypasses the lungs by flowing through the foramen ovale, a hole between the two upper chambers of the heart. Usually, the foramen ovale closes on its own after birth. Patent foramen ovale occurs when this hole does not close and blood continues to pass through it. This condition is fairly common and usually doesn't present any health issues. In rare cases, however, it can cause a clot in the right side of the heart, which can lead to a stroke or heart attack if left untreated. When a case of patent foramen ovale does require treatment, the hole is typically closed with a catheter or during a surgical procedure.



HYPOPLASTIC LEFT HEART SYNDROME

This condition, also known as HLHS, occurs when the atrium and ventricle on the left side of the heart are underdeveloped and the mitral valve that separates the two chambers is too small to allow for adequate blood flow or completely closed. Because the left ventricle pumps blood to the rest of the body, babies with HLHS can have severe circulation problems and exhibit cyanosis (blue or purple skin, lips and nails), as well as breathing problems, difficulty in feeding and lethargy. Left untreated, HLHS can be fatal. However, with several surgical procedures performed in the child's first three years, these defects can be corrected with a high level of success.

PULMONARY ATRESIA

Pulmonary atresia is a condition where the pulmonary valve that regulates blood flow from the heart to the lungs doesn't form properly and blocks the flow of blood, causing cyanosis. The symptoms typically include a blue tint to the skin, lips and nails, as well as shortness of breath, difficulty feeding and a heart murmur. While pulmonary atresia can sometimes be detected before birth, it is often discovered after birth when symptoms start to present. There are several treatment options, ranging from balloon catheterization to surgery, depending on specific characteristics of the child's heart.

TRICUSPID ATRESIA

Tricuspid atresia is a condition where, instead of the valve that normally sits between the right-side atrium and ventricle, solid tissue exists, blocking blood flow between the two chambers. This prevents blood from traveling to the lungs for oxygenation. Children with tricuspid atresia tend to exhibit signs of cyanosis, including a blue or purple tint to the skin, lips, or nails, as well as a heart murmur, shortness of breath, difficulty feeding, poor weight gain and fatigue. Depending on other conditions that sometimes accompany tricuspid atresia, treatment usually requires two or three surgeries over the course of the first two years of the child's life.

ARRHYTHMIAS

Typically, the four chambers of the heart contract in a synchronized order, pumping blood from the heart to the lungs to be oxygenated, then throughout the body to deliver oxygen and nutrients. Sometimes, though, the timing of these contractions can be too fast or too slow, or the heart can beat in an irregular pattern. This is known as an arrhythmia and it can cause dizziness, palpitations and even loss of consciousness. Fortunately, many arrhythmias can be treated through a procedure called percutaneous ablation, in which the tissues that are altering the electrical signals in the heart are subjected to a painless radiofrequency current to permanently correct the timing of contractions.





Specialized treatment options for special patients.

At *Florida Hospital for Children*, our cardiology program provides a varied and extensive range of specialized treatment options that include:

CARDIAC SURGERY

Our first objective at Florida Hospital for Children is to correct pediatric heart conditions without surgery. But if surgery is necessary for the long-term health and well-being of your child, rest assured that our expert teams are specially trained in pediatric open-heart surgery and minimally invasive heart surgery. From initial diagnosis to post-operative care, we'll guide you and your child each step the way.

PRE-NATAL DIAGNOSTICS

The ability to diagnose a heart problem before delivery allows your physician to help you make informed decisions about treatment. In some cases, it's even possible to treat the condition while your baby is still in the womb. At *Florida Hospital for Children*, our imaging team uses advanced diagnostic tools, including fetal echocardiography, to view the structure of the heart in detail using harmless sound waves.





Unparalleled Network of Care.

Supported by the strength, innovations and mission of the Florida Hospital system, *Florida Hospital for Children* is committed to delivering world-class programs, extraordinary patient care and clinical excellence. Our flagship hospital is the heart of a children's network that includes primary care pediatricians, specialty clinics, emergency departments and Kids Urgent Cares.

Across Central Florida, there are more than 300 dedicated pediatric beds, with 200 of them located at the tertiary children's hospital in Orlando. Four dedicated ambulances and one helicopter provide emergency transfers and

are staffed with a highly trained PICU and NICU transport team who supports regional hospitals within an 85-mile radius, including 13 adjacent Florida Hospital locations. The Ronald McDonald House, located on-site at the *Florida Hospital for Children*, provides a home-away-from-home atmosphere for our out-of-town families.

Patient records are immediately accessible across our entire network, creating an efficient, seamless healthcare experience. And no matter which one of our hospitals you visit, you will receive the same special brand of care. We're here to heal – body, mind and spirit.



8

PRIMARY CARE
OFFICES



7

SPECIALTY
CLINICS



5

EMERGENCY
CARE CENTERS



5

NEONATAL
INTENSIVE
CARE UNITS



2

KIDS
URGENT CARE
CENTERS



5

SPECIALIZED
PEDIATRIC
TRANSPORT
TEAMS



Florida Hospital for Children
Children's Cardiology Program
Call (855) 840-4460 to learn more.



We are here for your whole family.

If you have concerns about your child, give us a call. We can help you navigate normal childhood changes and catch issues early, so you can get the best treatment possible for your family.

This guide is provided to the general public to disseminate health-related information. The information is not intended to be used for diagnosing or prescribing. Please consult your physician before undertaking any form of medical treatment and/or adopting any exercise program or dietary guidelines.

Florida Hospital complies with applicable federal civil rights laws and does not discriminate on the basis of race, color, national origin, age, disability or sex.

ATENCIÓN: si habla español, tiene a su disposición servicios gratuitos de asistencia lingüística. Llame al número siguiente.



We're here to talk.

(855) 840-4460

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