

Meet the Study Team



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Boston Children's Hospital
Until every child is well™



**HARVARD MEDICAL SCHOOL
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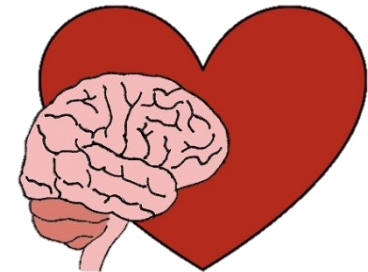
**Computational
Radiology
Laboratory**

Fetal Heart & Brain Project

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The Fetal Heart & Brain Project



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Purpose of the Study

The purpose of the research study is to better understand brain development and genetics in babies with congenital heart disease.

MRI of a baby at 19 weeks of pregnancy!



Who can participate?

Pregnant women, aged 18-45, with a prenatal diagnosis of a Congenital Heart Disease, or healthy volunteers with a family history of Congenital Heart Disease.

Research participants cannot have any non-removable metallic objects or devices.

What will be done?

During Pregnancy: The first MRI will be between 19-27 weeks, the second MRI will be between 28-33 weeks and the third MRI will be between 34-40 weeks of pregnancy. The MRI scan may last up to one hour, while we take images of the fetus.

After Birth: Toddlers will be invited back to meet with a neurologist and developmental psychologist at around two years of age. The child will engage in activities and tasks that mimic playtime. Clinicians will assess a wide range of language, motor, and cognitive skills. The study will be conducted in Boston at Boston Children's Hospital.

Biologic Specimens: We will collect biologic samples, such as blood, from routine blood draws your child may have through their clinical care or through research visits.

Future: When your child is 6-8 years old, we will ask if your family is interested in continuing participation in our study.

About MRI

MRI scans are safe and non-invasive for the mother and the baby. MRI scans do not involve radiation, but use a magnetic field to produce images.

Fetal imaging specialists will review the MRI scans. All collected data will remain confidential and private.

What are the benefits ?

You will receive results of the MRI and a CD of images of your baby.

You will receive the results of your child's developmental testing and recommendations from clinicians.

You will be part of a study that has the potential to improve counseling, early intervention, and treatment for future families whose babies are diagnosed with congenital heart disease.

Compensation

You will receive compensation of \$100 for each research-only outpatient MRI scan.

You will receive a \$50 Amazon gift card for the two-year visit.



MRI scanner