

TRANSIT-CHD Study Researchers

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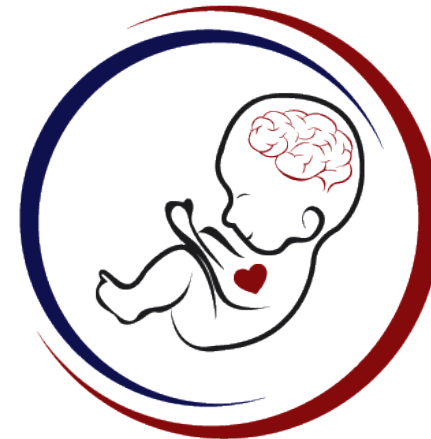
Pediatric Heart Center

Neonatal Brain Research Institute (NBRI) Study

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TRANSIT CHD:

The Risk of Acquired Neonatal
Significant brain Injury during perinatal
Transition in Congenital Heart Disease



TRANSIT
CHD

About the study

Children with congenital heart disease are at risk for developmental differences. The overall goals of this research study are to understand how the brain grows and develops in the context of CHD by using magnetic resonance imaging (MRI) and other imaging tools starting before birth and through your baby's newborn operation to identify early markers of developmental differences.

Why am I being asked if I want to consider this study for my baby?

You are being asked to participate in the study and allow your baby's participation in this study because your baby has CHD that will require an operation and is at risk for developmental differences.

What will happen if me and my baby are enrolled in this study?

- This study is enrolling both pregnant women and their unborn baby with prenatally diagnosed CHD and their newborn with CHD.
- If your baby was diagnosed with CHD before birth, you will have an MRI between 30 and 36 weeks of gestation.
- After birth, your baby will have measurements of his/her heart using cardiac ultrasound (echocardiogram) and external measurements of oxygen levels of the brain using infrared technology (cerebral near-infrared spectroscopy). Both of these tools are performed at your baby's bedside and do not require special medications or sedation.
- Your baby will have one MRI scan of his/her brain. It will occur when your baby's doctor determines it is safe for your baby to be moved off the unit and before his/her heart operation.
- Your baby will be transported by a research nurse and physician in a specialized incubator to another area of the hospital for the MRI scan. This incubator will keep your baby warm and comfortable.



Would this study benefit me or my baby?

There may or may not be a direct benefit to you or your baby from participating in this study. The knowledge learned from this study may help with the treatment of future newborn babies with CHD.

What would the study cost me?

You will not be charged for any of the study procedures.

Participation in this research study is voluntary

You and your baby do not have to participate in this study, and you may withdraw yourself or your baby from this research study at any time. You and your baby will continue to receive the highest level of care at UCSF even if you don't participate in this study.