

Some babies experience injury to the brain before or shortly after birth. These babies are at high risk of developing difficulties in movement due to changes in the brain. To develop better treatments we first need to understand how the brain changes in infants who have had an injury to the brain and how the brain develops over time.

GILLICK PEDIATRIC NEUROMODULATION LABORATORY

Empowering Children for Life

Using pictures of the brain and magnetic pulses, we can see how the connections within the brain contribute to movement.

This information will help build interventions and treatments aiming to improve movement.

We are a team of researchers, clinicians and trainees who are dedicated to discovering novel treatments for infants after injury to the brain. We incorporate the latest advances in technology and our collective expertise to achieve this goal.

STUDY DIRECTORS



Bernadette Gillick, PhD, MSPT, PT

McKnight Land-Grant Professor

Lab Director



Michael Georgieff, MD

Director, Center for Neurobehavioral Development

Medical Director

INFANT RESEARCH STUDY

Understanding How The Brain Continues To Develop After Injury



CONTACT

We invite you to contact us to learn more about this study with no obligation to participate.

We also offer tours of our lab and opportunities to meet our team.

Gillick Lab Phone: 612.597.2163

E-mail: brown029@umn.edu

Study Website: z.umn.edu/infant
z.umn.edu/gillicklab

UNIVERSITY OF MINNESOTA

Academic Health Center
Driven to Discover™



MnDRIVE
Discoveries and treatments for brain conditions



UNIVERSITY OF MINNESOTA

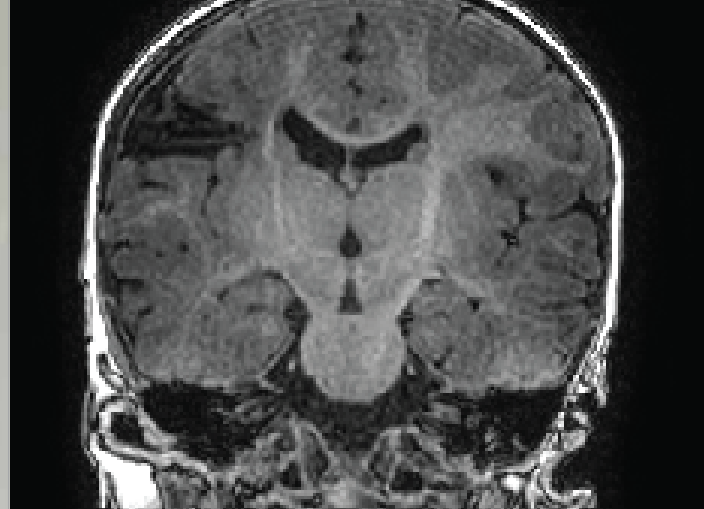
GILLICK PEDIATRIC NEUROMODULATION LABORATORY



1

MOVEMENT

Our team of therapists will analyze how your baby is moving and developing with assessments designed specifically for infants.



2

IMAGING

To understand brain development, we will take a picture of your baby's brain with an MRI, while your baby is naturally sleeping and under no sedation.



3

BRAIN CONNECTIVITY

We will apply brief and painless pulses with a device that gently rests on your baby's head that allows us to understand the activity in the area of your baby's brain that controls movement.

We welcome you and your baby to participate in any or all of the assessments. These assessments are repeated at 12 and 24 months of age to further understand development.

Families are eligible to receive up to \$100 for participation at each age as their baby grows.