

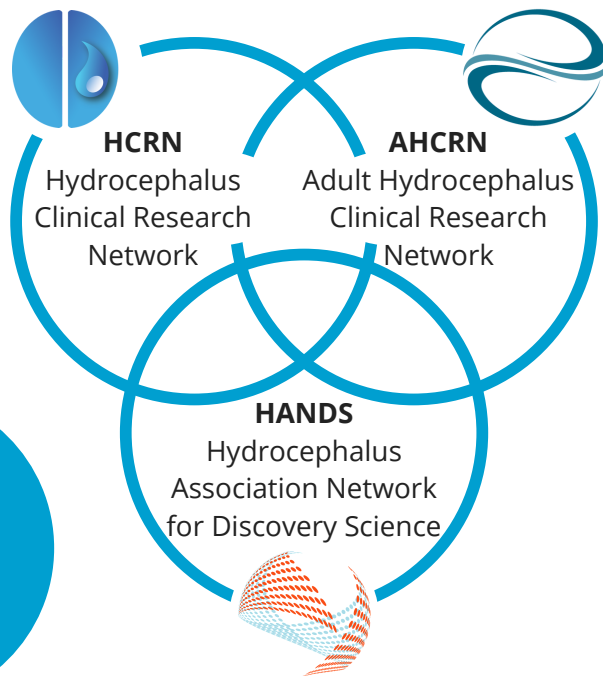


HYDROCEPHALUS IN OHIO

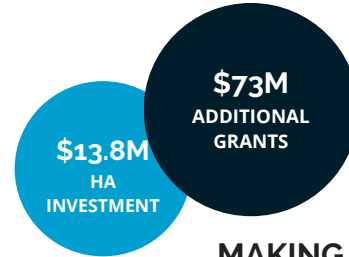
HYDROCEPHALUS IS A CHRONIC NEUROLOGICAL CONDITION THAT HAS NO CURE. ANYONE AT ANY TIME CAN DEVELOP HYDROCEPHALUS, FROM INFANTS TO SENIORS. THE ONLY TREATMENT REQUIRES BRAIN SURGERY.



TOGETHER TOWARDS A CURE



PAGE 2
for a full listing of funded hydrocephalus research in Ohio



MAKING AN IMPACT The Big Picture

- 2 Clinical Research Networks
- 1 Basic & Translational Research Network
- 2 Biobanks
- 1 Hydrocephalus Patient-Powered Registry
- 36% Decrease in Shunt Infection Rates
- 11 Preclinical Drug Therapies in testing
- 1 New Patent for a Drug Target
- 1 FDA Investigational New Drug Application

WALKS TO END HYDROCEPHALUS

Columbus, Glacier Ridge Metro Park, Sept 29, 2024
 Greater Cincinnati, Friendship Park, Sept 28, 2024
 Cleveland, Edgewater Park, 2024 Date TBD



COMMUNITY SUPPORT GROUPS

- Cleveland Community Network
- State-wide Online Facebook Group
- One-on-one Peer Support Volunteers



CONTRIBUTIONS TOWARD A CURE

CLEVELAND CLINIC

2021-2026 NIH NINDS Grant **\$14,000,000**
Placebo-Controlled Effectiveness of Idiopathic
Normal Pressure Hydrocephalus Shunting

CINCINNATI CHILDREN'S HOSPITAL MEDICAL CENTER

2013 Hydrocephalus Association **\$400,000**
The role of neural progenitor cells in the
development of neonatal hydrocephalus. Principal
Investigator: Vogel, Timothy

2015 Hydrocephalus Association **\$50,000**
Insights into Fetal Onset Hydrocephalus in a novel
mouse model. Principal Investigator: Goto, June

2015 Hydrocephalus Association **\$22,000**
Development of HydroAssist, first mobile app for
hydrocephalus patients.

2017 Hydrocephalus Association **\$50,000**
Understand the mechanisms of CSF accumulation in
Posthemorrhagic Hydrocephalus (PHH). Principal
Investigator: Goto, June

2018 Hydrocephalus Association **\$1,500**
A new rat model of congenital hydrocephalus.
Travel Award. Awardee: Emmert, Scott A.

2019 Hydrocephalus Association/Rudi Schulte
Research Institute **\$50,000**
Impaired neocortico-genesis and glymphatic-
mediated CSF flow in the new genetic rat model of
neonatal hydrocephalus. Principal Investigator:
Goto, June

2020 Hydrocephalus Association/Rudi Schulte
Research Institute **\$50,000**
Develop a technique to treat congenital
hydrocephalus by performing an endoscopic third
ventriculostomy (ETV) in utero. Principal
Investigator: Peiro, Jose

CINCINNATI CHILDREN'S HOSPITAL MEDICAL CENTER CON'T

2020 Hydrocephalus Association **\$1,500**
L1cam Mutation Exacerbates Neonatal
Hydrocephalus in a CCDC39-Deficient Rat Model
Characterized by Impaired Glymphatic CSF Flow.
Travel Award. Awardee: Emmert, Scott A.

2020-2022 Rudi Schulte Research Institute **\$150,000**
Targeting microglia activation to support healthy
neural development in a shunt-treated neonatal
hydrocephalus model. Principal Investigator: Goto,
June

2018 Hydrocephalus Association **\$1,500**
Inflammation and Impaired Neural Differentiation in
CCDC39 Rat Model of Neonatal Hydrocephalus.
Travel Award. Awardee: Iwasawa, Eri

UNIVERSITY OF CINCINNATI

2020 NIH NINDS **\$198,141**
The Impact of Intracranial Pressure on Cortical
Functioning and Cognitive Outcome after Traumatic
Brain Injury. Principal Investigator: Foreman,
Brandon

2021 NIH NINDS - ICH **\$700,355**
Recovery Grant. Principal Investigator: Woo, Daniel

MEMBERS

[Hydrocephalus Clinical Research Network \(HCRN\)](#)
Ohio State University, Nationwide Children's
Hospital

[Adult Hydrocephalus Clinical Research Network
\(AHCN\)](#)

Cleveland Clinic