Hydrocephalus Association

HYDROCEPHALUS IN **MICHIGAN**

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.

CONTRIBUTIONS TOWARD A BETTER TOMORROW

WAYNE STATE UNIVERSITY

2018 Hydrocephalus Association **$50,000**
Development of shunt catheters that resist occlusion. Principal Investigator: Harris, Carolyn

2018 Hydrocephalus Association **$1,500**
Using Super Glue to Strengthen Current Shunt. Travel Award. Principal Investigator: Horbatiuk, Jeff

2019 NIH NIBIB $317,314 and NINDS **$408,000**
3D neonatal Photoacoustic Tomography (3D-nPAT) to detect Hypoxic-Ischemic brain injury in preterm neonates.

2020 Hydrocephalus Association **$24,877**
Understanding the differences in how immune cells in the brain react after a shunt is placed. Principal Investigator: Harris, Carolyn

2020 Hydrocephalus Association **$1,500**
The Flow Limiting Operator: FLO. Travel Award. Principal Investigator: Horbatiuk, Jeff

2020 NIH NINDS **$474,352**
Investigating the cellular mechanisms leading to repetitive shunt failure in pediatric hydrocephalus. Principal Investigator: Harris, Carolyn

2022 Hydrocephalus Association **$1,500**
Squire: A Multi-Dye In Vivo Model for Real-Time Neuroinflammation in Hydrocephalus. Travel Award. Principal Investigator: Horbatiuk, Jeff

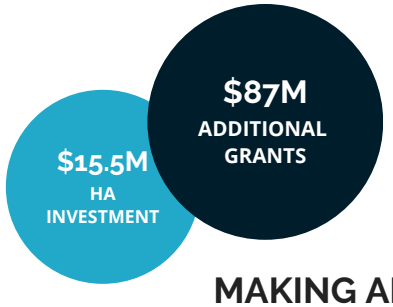
2022 HA/Rudi Schulte Research Institute **$100, 000**
Principal Investigator: Harris, Carolyn

2022 Hydrocephalus Association Innovator Award
Principal Investigator: Harris, Carolyn

2023 DOD CDMRP **$307,000**
Study shunt design to lower obstruction rates. Principal Investigator: Harris, Carolyn

2023 NIH **$2,678,253**
Investigating the source and the action behind shunt obstruction in the treatment of pediatric hydrocephalus. Principle Investigator: Harris, Carolyn

2023 Rudi Schulte Research Institute **$300,000**
Principle Investigator: Harris, Carolyn



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

12 Preclinical Drug Therapies in testing

2 New Patent for a Drug Target

1 FDA Investigational New Drug Application



DETROIT

WALK TO END HYDROCEPHALUS
Veterans Memorial Park, St. Clair Shores,
Aug 24, 2024
hydroassoc.org/detroitwalk

COMMUNITY SUPPORT GROUPS
Detroit Community Network
State-wide Online Facebook Group
One-on-one Peer Support Volunteers

CONTRIBUTIONS TOWARD A CURE

UNIVERSITY OF MICHIGAN AT ANN ARBOR

2020 HYDROCEPHALUS ASSOCIATION **$49,890**
THE ROLE OF CARBONIC ANHYDRASE TO PREVENT THE DEVELOPMENT OF HYDROCEPHALUS AFTER A STROKE. PRINCIPAL INVESTIGATOR: PANDEY, ADITYA

2021 NIH NINDS **$1,070,438**
EXPERIMENTAL CEREBRAL HEMORRHAGE: MECHANISMS AND THERAPIES. PRINCIPAL INVESTIGATOR: XI, GUOHUA

2023 HYDROCEPHALUS ASSOCIATION **$50,000**
PRINCIPAL INVESTIGATOR: SUKOVICH, JONATHAN

HENRY FORD HEALTH NEURODEGENERATIVE & NEUROINFLAMMATORY DISORDERS CENTER

2021-2026 NIH NINDS GRANT **$14,000,000**
PLACEBO-CONTROLLED EFFECTIVENESS OF IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS SHUNTING