Hydrocephalus Association

HYDROCEPHALUS IN **PENNSYLVANIA**

TOGETHER TOWARDS A CURE

HCRN
Hydrocephalus Clinical Research Network

AHCRN
Adult Hydrocephalus Clinical Research Network

HANDS
Hydrocephalus Association Network for Discovery Science

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for a full listing of funded hydrocephalus research in Pennsylvania

$15.5M
HA INVESTMENT

$87M
ADDITIONAL GRANTS

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

WALKS TO END HYDROCEPHALUS

Central PA, Sweet Arrow Lake County Park, Sep 22, 2024
Philadelphia, Philadelphia Navy Yard, Oct 13, 2024
Western PA, Schenley Plaza, Pittsburgh, Sept 14, 2024
hydroassoc.org/walk
walk@hydroassoc.org





COMMUNITY SUPPORT GROUPS

Central PA Community Network
Eastern PA Community Network
Pittsburgh Community Network
State-wide Online Facebook Group
One-on-one Peer Support Volunteers

Hydrocephalus Association

CONTRIBUTIONS TOWARD A CURE

CARNEGIE MELLON UNIVERSITY

2020 NIH NIBIB **$183,773**
Non-invasive Intracranial Pressure Sensing with Near-Infrared Light for Monitoring the Healthy and Diseased Brain. Principal Investigator: Kainerstorfer, Jana Maria

CHILDREN'S HOSP OF PHILADELPHIA

2020 NIH NINDS **$661,169**
Novel Ultrasound Indices of Intracranial Pressure and Brain Ischemia in Neonatal Hydrocephalus. Principal Investigator: Hwang, Misun

2021 NIH NINDS **$385,000**
Diffuse Optics for Pediatric Hydrocephalus Management. Principal Investigator: Baker, Wesley

2021 NIH NINDS **$633,996**
Novel Ultrasound Indices of Intracranial Pressure and Brain Ischemia in Neonatal Hydrocephalus. Principal Investigator: Hwang, Misun

FREEFLOW MEDICAL DEVICES, LLC

2020 NIH NINDS **$1,384,382**
Omniphobic cerebral shunt to eliminate clogging and dysfunction. Principal Investigators: Bandyopadhyay, Saibal, Harris, Carolyn A, Mcallister, James Patterson

2021 NIH NINDS **$1,035,612**
Omniphobic cerebral shunt to eliminate clogging and dysfunction. Principal Investigators: Bandyopadhyay, Saibal, Harris, Carolyn A, Mcallister, James Patterson

PENNSYLVANIA STATE UNIV HERSHEY MED CENTER

2020 NIH NICHD **$32,183**
Leveraging Neural Imaging for Automated Neonatal Infection Diagnosis. Principal Investigator: Peterson, Mallory Rose

2021 NIH NICHD **$32,779**
Leveraging Neural Imaging for Automated Neonatal Infection Diagnosis. Principal Investigator: Peterson, Mallory Rose

2021 FIC & NIH NICHD **$565,200**
Neurocognitive outcomes and changes in brain and CSF volume after treatment of post-infectious hydrocephalus in Ugandan infants by shunting or ETV/CPC: a randomized prospective trial. Principal Investigators: Schiff, Steven J., Kulkarni, Abhaya V., & Warf, Benjamin Curtis

MEMBER

Hydrocephalus Clinical Research Network (HCRN)
University of Pittsburgh, Children's Hospital of Pittsburgh of UPMC