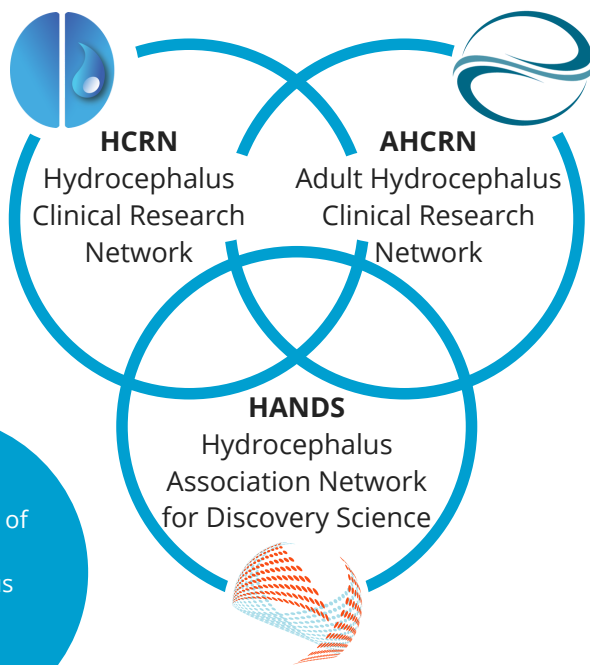


HYDROCEPHALUS IN MARYLAND

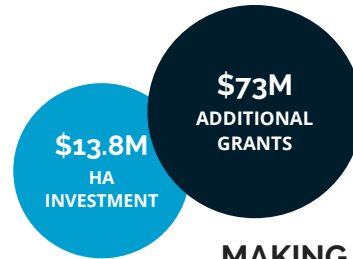
HYDROCEPHALUS IS A CHRONIC NEUROLOGICAL CONDITION THAT HAS NO CURE. ANYONE AT ANY TIME CAN DEVELOP HYDROCEPHALUS, FROM INFANTS TO SENIORS. THE ONLY TREATMENT REQUIRES BRAIN SURGERY.



TOGETHER TOWARDS A CURE



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



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

WALK TO END HYDROCEPHALUS

Baltimore, UMBC, October 19, 2024
hydroassoc.org/baltimorewalk

Washington, DC, National Mall, September 21, 2024
hydroassoc.org/nationalcapitalwalk



COMMUNITY SUPPORT GROUPS

- Baltimore Community Network
- DC Metro Community Network
- State-wide Online Facebook Group
- One-on-one Peer Support Volunteers



CONTRIBUTIONS TOWARD A CURE

EUNICE KENNEDY SHRIVER NATIONAL INSTITUTE OF CHILD HEALTH & HUMAN DEVELOPMENT, NIH

2020 NIH NICHD **\$46,288**

Genetic Factors in Birth Defects. Principal Investigator: Mills, James

HYDROCEPHALUS ASSOCIATION

2015 PCORI **\$49,827**

Translation to Transform. Principal Investigator: Koschnitzky, Jenna

JOHNS HOPKINS UNIVERSITY

2016 Hydrocephalus Association **\$50,000**

Mechanisms of post-hemorrhagic hydrocephalus of prematurity. Principal Investigators: Robinson, Shanandoah and Jantzie, Lauren

2017 DOD CDMRP **\$2,320,750**

Mechanisms and Nonsurgical Treatment of Acquired Symptomatic Hydrocephalus. Principal Investigators: Robinson, Shanandoah and Jantzie, Lauren (follow on from HA funding)

2019 Hydrocephalus Assoc/Rudi Schulte Research Institute **\$50,000**

Motile cilia dysfunction in neonatal post-infectious hydrocephalus. Principal Investigators: Robinson, Shanandoah and Jantzie, Lauren

2020 NIH NINDS **\$453,891**

Determine protocol for labeling the subarachnoid space and dura on MR images, develop automated algorithm to do so, and carry out pilot studies with NPH and MS patients. Principal Investigator: Prince, Jerry L

2021 NIH NINDS \$204,688

A study of paravascular and interstitial flow in Hydrocephalus and shunting. Principal Investigator: Luciano, Mark

2020 Hydrocephalus Association \$1,500

Evaluating the effects of CSF proteins on valves and anti-siphoning devices in a benchtop shunt system. Travel Award. Principal Investigator: Serra, Riccardo

JOHNS HOPKINS UNIVERSITY CON'T

2021 NIH NICHD **\$318,709**

Stem cell-based biomaterials for spinal regeneration in neural tube defects. Principal Investigator: Kunisaki, Shaun Michael

2021 Department of Defense **\$2,289,370**

2023 Continuation Grant ---

Novel Non-Surgical Neuro-Immunomodulatory Treatment for Acquired Hydrocephalus. Principal Investigators: Robinson, Shanandoah and Jantzie, Lauren (follow on from HA funding)

2021-2026 NIH NINDS **\$14,000,000**

A Placebo-Controlled Effectiveness in INPH Shunting (PENS) Trial. Principal Investigators: Luciano, Mark Gregory and Holubkov, Richard

2022 DOD CDMRP **\$7,800,000**

Development of Pharmacotherapies for the Treatment of Hydrocephalus. Principal Investigators: Robinson, Shenandoah, Jantzie, Lauren, and Blazer-Yost, Bonnie (IN)

2022-2023 NIH NICHD **\$2,580,803**

Safety of Combinatorial Therapy with Erythropoietin and Melatonin for Preterm Infants with Intraventricular Hemorrhage. Principal Investigators: Robinson, Shenandoah and Jantzie, Lauren.

MEMBER

[Hydrocephalus Clinical Research Network](#)
Johns Hopkins University, Johns Hopkins Hospital

MEMBER

[Adult Hydrocephalus Clinical Research Network](#)
Johns Hopkins Hospital