

HYDROCEPHALUS IN MASSACHUSETTS

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.



\$73M Additional GRANTS HA INVESTMENT 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

Medford, DCR Torbert MacDonald Park 2024 Date TBD hydroassoc.org/gnewalk





COMMUNITY SUPPORT GROUPS

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

W W W . H Y D R O A S S O C . O R G





CONTRIBUTIONS TOWARD A CURE

BOSTON CHILDREN'S HOSPITAL

2010 Hydrocephalus Association **\$110,000** Determine the role of pro-angiogenic factor VEGF in hydrocephalus. Principal Investigator: Shim, Joon

2018 Hydrocephalus Association **\$297,000** Determine how a brain bleed changes choroid plexus function and brain development. Lehtinen, Maria

2020 NIH NINDS \$472,004

Improving the Safety and Efficacy of Intraventricular Neurosurgery via Robotics. Principal Investigator: Dupont, Pierre E

2021 NIH NICHD **\$536,941**

Improving infant hydrocephalus outcomes in Uganda: Predicting developmental outcomes and identifying patients at risk for early treatment failure after ETV/CPC. Principal Investigator: Lin, Pei-Yi and Warf, Benjamin

2022 Hydrocephalus Association \$1,500

Brain monitoring to predict surgical treatment outcome for neonatal hydrocephalus. Travel Award. Principal Investigator: Rajaram, Ajay

2022 Hydrocephalus Association Innovator Award

Principal Investigator: Lehtinen, Maria

BETH ISRAEL DEACONESS MEDICAL CENTER / HARVARD MEDICAL SCHOOL

2017 Hydrocephalus Association **\$50,000** Identify markers of delayed hydrocephalus following subarachnoid hemorrhage (SAH). Principal Investigator: Fillippidis, Aristotelis

MASSACHUSETTS GENERAL HOSPITAL

2021 NIH NINDS **\$200,880** Apathy and Depression following Intracerebral Hemorrhage. Principal Investigator: Biffi, Alessandro

MASSACHUSETTS GENERAL HOSPITAL CON'T

2021 NIH NICHD **\$510,303** Portable MRI Technology for Neonatal Care. Principal Investigator: Cooley, Clarissa Zimmerman

2021 NIH NINDS **\$462,000**

Development of a multi-modal MRI methodology to map paravascular clearance linked to astrocyte dysfunction in fetal-onset hydrocephalus. Principal Investigator: Yu, Xin

UNIV OF MASSACHUSETTS MED SCH WORCESTER

2020 NIH NINDS **\$561,865** Genetics of Adult Idiopathic Hydrocephalus. Principal Investigator: Johnson, Mark D.

2021 NIH NINDS \$31,969

Genetics of Adult Idiopathic Hydrocephalus. Principal Investigator: Johnson, Mark D.

2021 NIH NINDS **\$638,592**

Genetics of Adult Idiopathic Hydrocephalus. Principal Investigator: Johnson, Mark D.

2021 NIH NIGMS **\$636,066**

Flagellar Motility and Assembly. Principal Investigator: Witman, George B.

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