



LOW-INTENSITY FOCUSED ULTRASOUND (LIFU)

A potential cure for cavernous malformation patients

SUPPORT A GROUNDBREAKING TREATMENT

THE PROBLEM

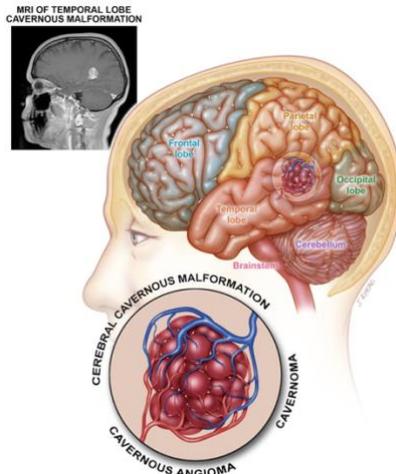
Cerebral cavernous malformation (CCM) is a blood vessel disorder that causes strokes, seizures, and neurological deficits in an estimated 160,000 children and adults in the U.S.

There is no treatment for CCM besides brain or spinal cord surgery. Surgery can cause lasting deficits, and for many patients, it is not an option.

WHY LOW-INTENSITY FOCUSED ULTRASOUND (LIFU)?

Low-intensity focused ultrasound (LIFU) is a promising non-invasive treatment for CCM patients. LIFU uses a helmet to target diseased blood vessels (CCM lesions) with sound waves. This intervention may trigger a wound-healing response.

According to a groundbreaking 2025 study, LIFU stops the growth of 94 percent of CCM lesions and reduces the formation of new CCM lesions by 81 percent in CCM mouse models (Fisher et al, *Nature Biomedical Engineering*). If LIFU shows similar effectiveness in humans, it would be what CCM patients have been waiting for: a better treatment, and perhaps even a cure.



MAKING LIFU A REALITY FOR OUR FAMILIES

LIFU must be evaluated in a clinical trial before it becomes an option for CCM patients. First, it must be tested in a small safety trial. If proven safe, LIFU will be evaluated for effectiveness in a larger trial. The cost for a clinical trial is, at a minimum, \$1.2 - \$1.5 million over 4 years.

WHAT WE'VE DONE SO FAR

The Alliance is driving the clinical trial of LIFU. As part of this effort, we co-wrote the trial design with the University of Virginia, where the trial will take place, and met with the Food and Drug Administration (FDA) multiple times to speed the approval of the trial. We have identified early-stage funders and patient volunteers.

THE ALLIANCE'S FUTURE ROLE

We expect the first CCM patients to be enrolled in the LIFU safety trial by early 2027. With your financial support, we will continue driving the trial until we have an answer. Can LIFU be the non-invasive treatment, or even the cure, our families so desperately need?

HOW TO DONATE

Mail check to: Alliance to Cure Cavernous Malformation, 977 Seminole Trail Box 367, Charlottesville VA 22901

DAF: Our EIN is 02-0600697. Full name is Angioma Alliance DBA Alliance to Cure Cavernous Malformation

Credit card: alliancetocure.org/donate

By wire, stock, or for assistance, email Dinah Winchester at dwinchester@alliancetocure.org