



Robotic Surgical Procedure to Address Alzheimer's

February 9, 2026



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Introduction





Mark Toland



President & CEO



Managing Director



President & CEO



Senior Vice President





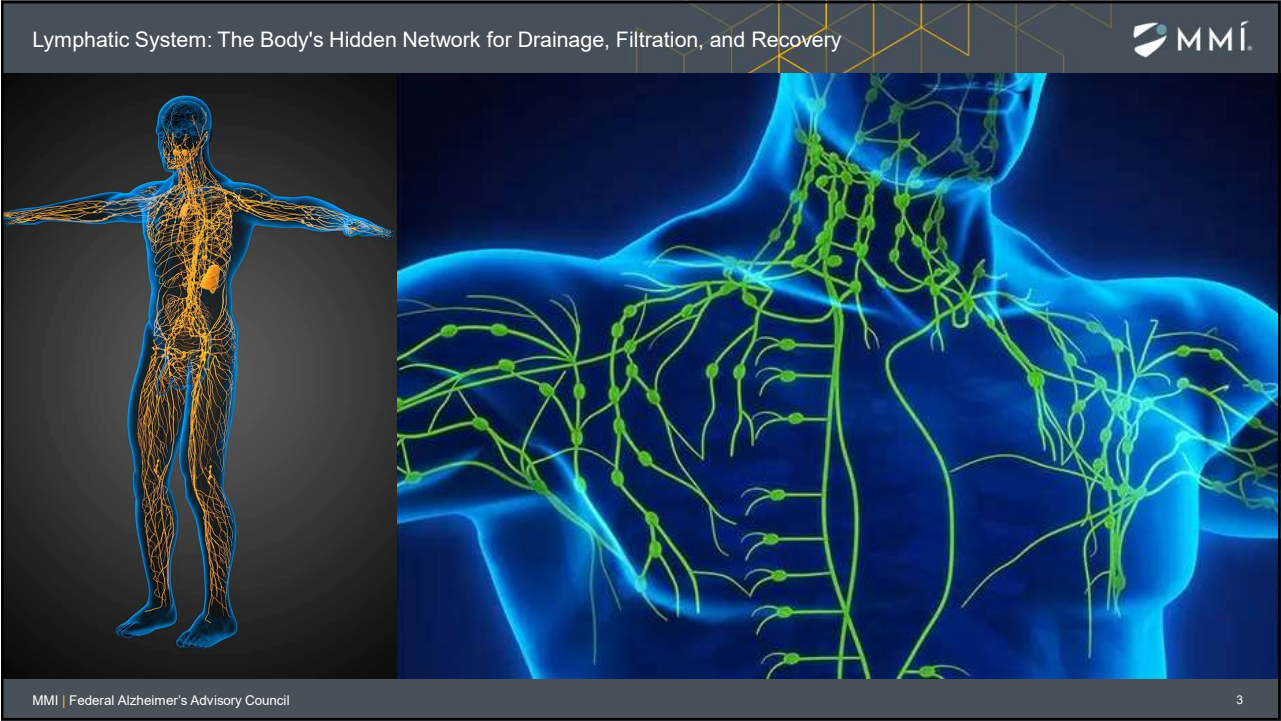




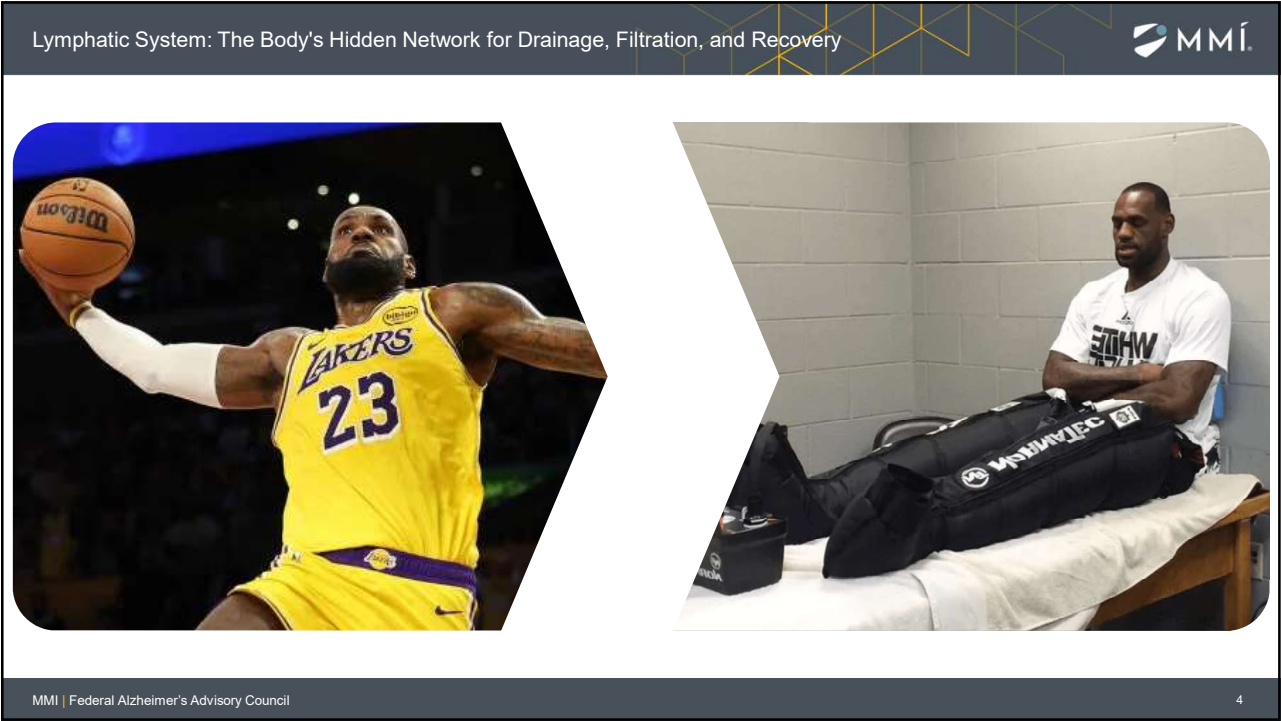
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Discovering the Brain Lymphatic System

Discovery (2015)

Lymphatic vessels discovered in CNS

Functionality

2019

ARTICLE

Meningeal lymphatic vessels at the skull base drain cerebrospinal fluid

Boosting brain's waste removal system could improve Alzheimer's outcomes

2021

NIH Research Matters

Boosting brain's waste removal system could improve Alzheimer's outcomes

2024

Open access

Promising outcomes 5 weeks after a surgical cervical shunting procedure to unclog cerebral lymphatic systems in a patient with Alzheimer's disease

Improving lymphatic drainage in people with Alzheimer's could lead to better outcomes

Treatment Proposal (2025)

Recognizing the Lymphatic - Neurodegenerative Diseases Link

A Proposed Role for Lymphatic Supermicrosurgery in the Management of Alzheimer's Disease: A Primer for Reconstructive Microsurgeons

Sponsored by MMI

JP Hong, MD, PhD
Professor and Chief
Department of Plastic and Reconstructive Surgery
Asan Medical Center, Seoul South Korea

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Lymphatic Vessels Discovered in Central Nervous System | Nation
Meningeal lymphatic vessels at the skull base drain cerebrospinal fluid | Nature
Boosting brain's waste removal system could improve Alzheimer's outcomes | National Institutes of Health (NIH)
Promising outcomes 5 weeks after a surgical cervical shunting procedure to unclog cerebral lymphatic systems in a patient with Alzheimer's disease | General Psychiatry
Thieme E-Journals - Archives of Plastic Surgery / Abstract

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Patient-Driven Demand Accelerating Science

>5,000 Lymphatic Surgeries completed with promising results

Patients exhibiting cognitive and motor function improvements shortly after procedure¹

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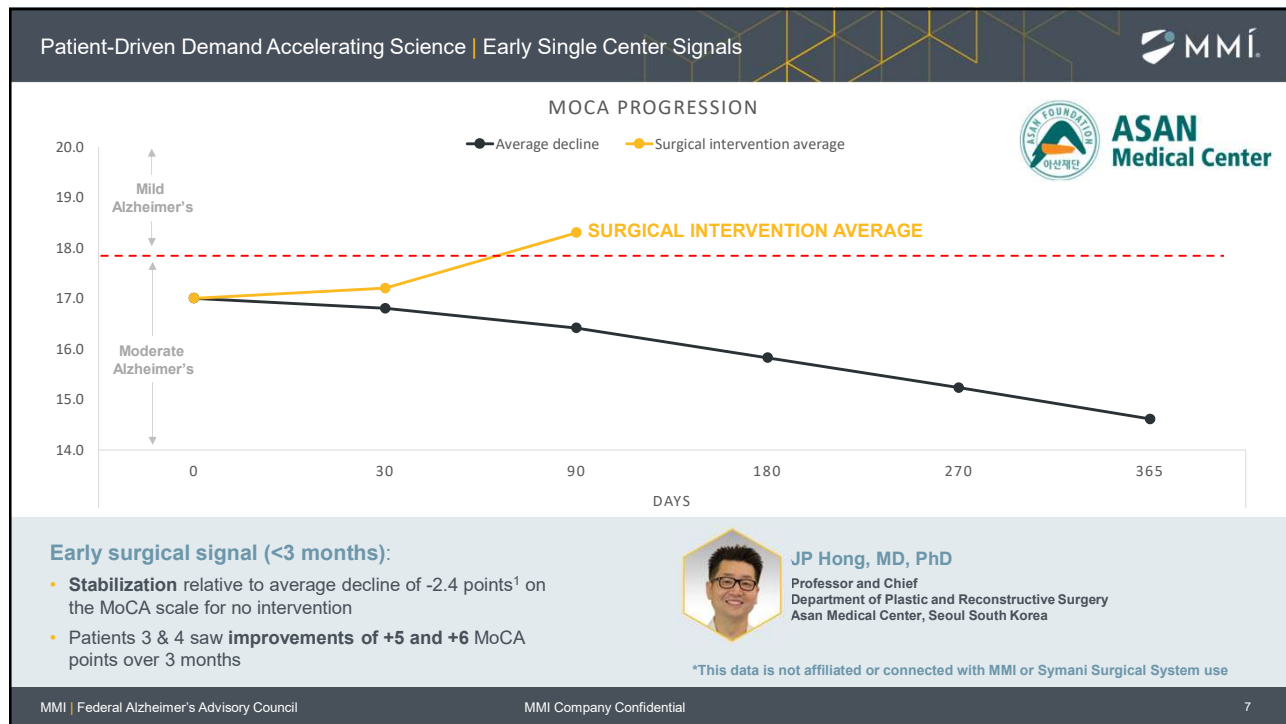
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1. Jianping Ye et al. A Surgical Therapy for Alzheimer's disease with lymphaticovenular anastomosis. Sage. Journal of Alzheimer's Disease Reports. September 2025.

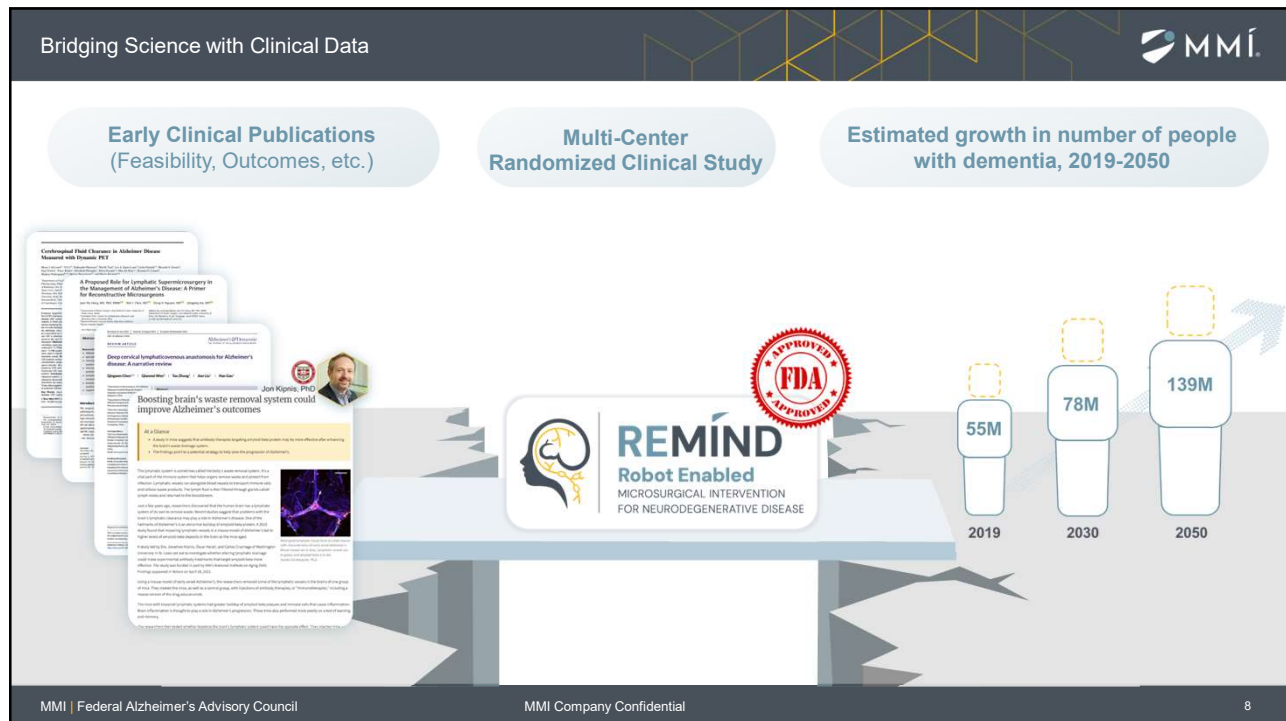
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Industry-Driven Research

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REMIND
Robot Enabled
MICROSURGICAL INTERVENTION
FOR NEURODEGENERATIVE DISEASE

RECEIVED
U.S. FOOD & DRUG
ADMINISTRATION
FDA
APPROVED
U.S. FDA

September 5, 2025

MMI North America, Inc.
To: Zanele Adams
U.S. Regulatory Affairs Specialist
Medical Microinstruments, Inc.
Via Email: Cmsr24
Fax: 30121
Only

Re: 625025
Trade/Device Name: Symptom Surgical System
Date: August 6, 2025
Revised: August 7, 2025
CDS Category: A
Annual Report Due: One Year from the Date of This Letter

Dear Zanele Adams:

The Food and Drug Administration (FDA) has reviewed your Investigational Device Exemption (IDE) application regarding your feasibility study "REMIND: Robot Enabled Microsurgical Intervention for Neurodegenerative Disease - A Global, Prospective, Early Feasibility Study in Alzheimer's Patients" for a significant risk device. Your submission was accepted for review.

September 4, 2025, to review the clinical study protocol to clarify the enrollment requirements of each investigator included in your study, to exclude patients with intercurrent neurological conditions, and all study reporting rules.

September 7, 2025, to review the clinical study protocol to clarify the study reporting rules language, provide a revised draft of the site and safety monitoring board (DSMB) charter with clarification on the safety events that may trigger an interim DSMB meeting, and revisions to the informed consent document (ICD) to clarify the study risks.

FDA has determined you have provided sufficient data to support initiation of a human clinical study; this means that there are no subject protection concerns that preclude initiation of the investigation. Your application is therefore approved, and you may begin your investigation after you have obtained institutional review board (IRB) approval. Your investigation is limited to 3 United States (U.S.) institutions and 1 U.S. subject.

Your IDE application has been approved as a staged study. You may request approval to expand enrollment in your study to the full cohort of 15 subjects when you have submitted an IDE supplement which provides the pre-specified 15-day follow-up safety data for the first 4 subjects enrolled in the study and any completed DSMB meeting minutes.

U.S. Food & Drug Administration
1085 North McGee Avenue
Silver Spring, MD 20910

Clinical Application	Study Design	2026				2027				2028
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
Alzheimer's Lymphatic Repair	Multi center, early feasibility safety study (15 patients, 3 sites)	Enrollment								
Alzheimer's Lymphatic Repair	Multi center, pivotal safety and efficacy study (300 patients, 30 sites)					Enrollment				

24-30 Month Sprint: Generating clinical data and securing regulatory approval, alongside strong interest from providers, payers, investors and government agencies

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REMIND EFS Site Update

Sites In Progress
(up to 3 sites FDA approved)

BAPTIST HEALTH

Stanford MEDICINE

JACOBS INSTITUTE

YALE NEW HAVEN HEALTH

Staged Study Design

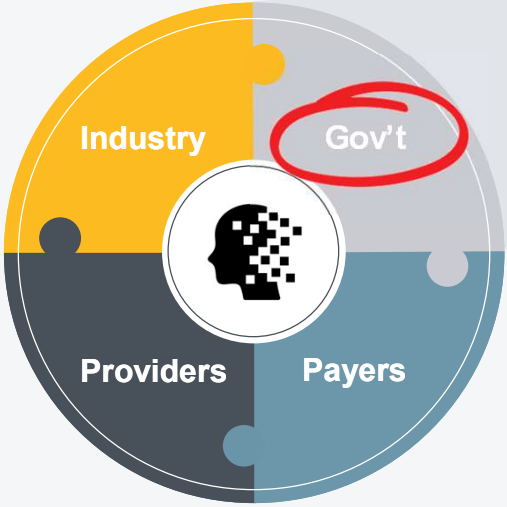
- » Patients Enrolled – 5
- » FDA review
- » Patients Enrolled- 10

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Next 24 Months: Essential Government Levers for Surgical Alzheimer's Innovation




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Essential Government Levers

☒ Clinical Study Approval
September 2025

☐ Funding to Accelerate Clinical Data
2026


☐ Scalability with Pre Market Clearance
2027 / 2028
  

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