



Outlook

Research Weekly Newsletter : Mar/19/2026

From Medical Student Research <Medical.Student.Research@dartmouth.edu>**Date** Thu 3/19/2026 10:00 AM**To** GEISEL_2026@LISTSERV.DARTMOUTH.EDU <GEISEL_2026@LISTSERV.DARTMOUTH.EDU>;
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<timothy.b.gardner@hitchcock.org>**Dartmouth**
GEISEL SCHOOL OF
MEDICINE**Office of
MEDICAL STUDENT
RESEARCH**

Weekly Newsletter

Mar 19, 2026

The Student Research Office is actively supporting medical students throughout their research journey, serving as a central resource to help navigate onboarding requirements and connect with opportunities across departments. The office regularly shares active research projects and offers guidance on how to get involved.

Students are strongly encouraged to visit the office at **Remsen 230** for any research-related information and to begin their research journey.

Contact: Medical.Student.Research@dartmouth.edu



Upcoming event

Scholarly Projects in Medicine Poster Session (M4)

March 26, 2026 4pm to 6pm at DHMC

M4 Geisel Medical Student Research Paper Competition & Award Event (2026)

When : May 7th, 2026 | 5:00–7:00 PM at Dartmouth-Hitchcock Medical Center (Auditorium A–H)

Summer Medical Student Research Projects



Summer research projects for 2026 (M1)

Geisel and DH Summer Projects

Explore the **2026 Geisel/DHMC Summer Research Project Opportunities** here:

Updates: More projects have been added to the summer list.

<https://geiselmed.dartmouth.edu/student-research/2026-geisel-dhmc-summer-research-project-opportunities/>

2026 Summer Research Work Study Grants

If you are planning a summer project in the Upper Valley (whether that be at Geisel/DH/WRJVA/or other community practice) we encourage you to apply for federal work study grant funds. \$2500 will be provided per student for summer research.

The deadline to apply this year is April 17, 2026.

More information : <https://geiselmed.dartmouth.edu/student-research/2023-summer-research-work-study-grants/>

Sleep Medicine Research Opportunity

Seeking research associate for a study about sleep by inmates in the Sullivan County Jail in New Hampshire. Study will be conducted between May – July, 2026 with work for a write up of findings in August. No pay. Must complete on line learning for CITI certification.

Study will involve interviewing inmates and managing quantitative survey data about their sleep. Contact: Dr. Adam J. Sorscher (P.I.) at

adam.sorscher@dartmouth.edu

Research Opportunities *Radiation Oncology & Health Policy* | Dartmouth Cancer Center

Katie E. Lichter, MD, MPH

Dr. Katie Lichter is offering several student research opportunities focused on cancer care delivery, climate resilience, and health system sustainability.

Projects include evaluating travel burden among rural cancer patients, assessing weather-related disruptions to oncology care, participating in Sustainability & Health Collaborative initiatives, and contributing to a radiation oncology energy audit manuscript for peer-reviewed publication.

Students interested in cancer care equity, sustainability, and systems-level impact are encouraged to reach out for more information.

More info : <https://geiselmed.dartmouth.edu/student-research/active-medical-student-research-opportunities/>

COME LEARN TO USE ULTRASOUND TO DETERMINE GESTATIONAL AGE IN A HANDS-ON TRAINING WORKSHOP

All M1s are eligible!

Ultrasound measurement of crown-rump length (CRL) in the first trimester is the most accurate method for determining gestational age. We are conducting a research study to examine the role of ultrasound simulation training using a pickle-in-a-balloon model in gestational age estimation.

You will:

- Receive ultrasound training (~20min) and apply your skills to estimating gestational age (~10min)
- Measure the pickle's CRL pre- and post-training



Participation takes 30 minutes to 1 hour.

Date: Wednesday, 3/25, 1-5 PM.

Sign up for a time slot below! First come first serve

Location: Geisel Anatomy Lab

To participate: 1) sign up below and 2) send signed consent form to Maggie after you sign up



<https://tinyurl.com/pickleclstudy>



<https://tinyurl.com/pickleclconsent>

Questions? Reach out to:

Dr. Nena Mason (Nena.Mason@dartmouth.edu) | Maggie Cheng (maggie.cheng.med@dartmouth.edu)



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GEISEL SCHOOL OF MEDICINE | DEPARTMENT OF MEDICAL EDUCATION

This study has been approved by
Dartmouth College Institutional Review
Board (STUDY00033611)

*This is not part of the curriculum. Participation is voluntary



**Medical Student Opportunity: National Educational Project in
Cardiac Anesthesia**

The Society of Cardiovascular Anesthesiologists (SCA) is seeking 2–3 medical students, particularly those interested in anesthesiology, to assist with editing tasks for a national cardiac anesthesia board exam question bank developed by faculty from several major academic institutions.

Time commitment: approximately 1–2 hours per week for 4–6 weeks.

Participating students will receive letters of recommendation from project leaders, including Dr. Gina Linganna, Chair of the SCA Education Committee

More information , please reach out to **Dr. Hesham M. Ezz** ,
Hesham.M.Ezz@hitchcock.org

Northern New England CO-OP Practice & Community Based Research Network

Department of Community and Family Medicine at Dartmouth Health and Geisel School of Medicine at Dartmouth, in collaboration with Larner College of Medicine at the University of Vermont and MaineHealth

Seeking a Geisel medical student to join the NNE CO-OP PCBRN's Annual Meeting Planning Committee!

Are you a medical student with an interest in primary care research? The **Northern New England CO-OP Practice and Community Based Research** based within the Department of Community and Family Medicine, is seeking an enthusiastic student to join the conference planning committee for our 47th Annual Meeting, taking place January 22–24, 2027, at the Equinox Resort in Manchester, VT. Virtual meetings are held on the first Wednesday of each month.

<https://geiselmed.dartmouth.edu/nnecooppcbrn/>

This is a great opportunity to connect with primary care researchers and clinicians from across the region while playing a hands-on role in shaping a premier primary care research conference.

Interested? Contact NNECO-OPPCBRN@hitchcock.org



American College of Physicians (ACP) Annual Meeting

Join ACP and your colleagues in San Francisco, CA, April 16-18, 2026, at the annual marquee educational event for internal medicine physicians and subspecialists around the globe.

Information and Special Sessions for Medical Students

<https://annualmeeting.acponline.org/educational-program/information-medical-students>



Magnuson Center Founder Grants

The Magnuson Center Founder Grants support the launch and growth of Dartmouth-founded ideas. These grants award up to \$5,000 to an individual or team. Successful applicants should demonstrate a clear entrepreneurial plan, solid background research, and strong commitment to learning and executing their ideas.

Who Can Apply:

- Enrolled full-time undergraduate and graduate Dartmouth students
- Dartmouth faculty
- Dartmouth staff
-

Applicants must be the founder or co-founder of the venture. Each primary applicant can receive a maximum of one Founder Grant per academic year, regardless of venture, with preference given to those who have not yet received funding.

<https://magnuson.dartmouth.edu/founder-grants>



The Office of Medical Student Research continuously supports students in exploring research opportunities. Students can access information on both internal and external grants to support their research projects.

Updated information on research grants and external funding opportunities has been added to the page. <https://geiselmed.dartmouth.edu/student-research/grant-funding/>

Looking for something else?

To learn about additional ongoing research projects, **visit our website** or **reach out to our office**.

We're here to help you find opportunities that match your interests and goals.

Upcoming Events

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- M4 Geisel Medical Student Research Paper Competition & Award Event (2026) ,May 7th, 2026 | 5:00–7:00 PM at DHMC

The Geisel School of Medicine Events Calendar

Students are encouraged to check the Events Calendar to stay updated on upcoming research talks and Grand Rounds sessions.

<https://geiselmed.dartmouth.edu/calendar/index.php?m=3&y=2026&v=m>



Annual Dartmouth Symposium on Precision Health & AI

April 17, 2026 | 📍 Hanover Inn Grand Ballroom

Registration link : https://c-phai.org/symposium-2026?utm_campaign=Insider_march102026&utm_medium=email&utm_source=newsletter

Student Spotlight



Omar M. Sajjad, MD Candidate (Class of 2027)

Omar Sajjad is a third-year medical student at the Geisel School of Medicine at Dartmouth. He earned an M.S. in Global Health from University of California, San Francisco and bachelor's degrees in Biology and Global Health from University of California, San Diego. Prior to medical school, he worked as a malaria elimination consultant with the WHO in Thailand and served as an epidemiology fellow with the California Department of Public Health, where he led surveillance initiatives examining dietary supplement adulteration and contributed to foodborne illness outbreak investigations. His early research focused on infectious disease epidemiology, including malaria elimination strategies in Southeast Asia.

At Geisel, Omar has conducted research on mucosal immune responses to novel oral poliovirus vaccines. He has also co-authored multiple peer-reviewed publications examining social and behavioral determinants of health in youth using data from the Adolescent Brain and Cognitive Development (ABCD) study. His research interests include vaccine equity, global infectious disease control, and social epidemiology. Omar aims to pursue a career in academic medicine integrating clinical care with population-level research and public health practice.

Scholarly Manuscripts by Geisel Students

Geisel students continue to drive innovation through research, contributing to peer-reviewed publications across clinical medicine, global health, and more. Their scholarly work reflects a deep commitment to scientific inquiry and advancing patient care. Each year, our students co-author numerous manuscripts, showcasing their passion for discovery and academic excellence. <https://geiselmed.dartmouth.edu/student-research/research-papers-by-geisel-students/>

Students are requested to submit their published manuscripts to be archived in the Student Manuscript section of the website.

■ CLINICAL SCIENCE ■

Outcomes of Complex PVR Retinal Detachment Repair With and Without Intravitreal Methotrexate at a Single Tertiary Care Center

Ioanna Ploumi, MSc; Mauricio D. Garcia, BA; Ying Zhu, MD; Kayla N. Nodecker, MSc; Shivesh H. Shah, BA; Wenxuan Xu, BS; John B. Miller, MD

BACKGROUND AND OBJECTIVE: Proliferative vitreoretinopathy (PVR) remains the leading cause of failed retinal detachment (RD) repair. This study evaluated anatomic and visual outcomes in complex Grade C PVR RDs by advanced vitreoretinal techniques with or without adjunctive intravitreal methotrexate (MTX).

PATIENTS AND METHODS: This retrospective consecutive case series included eyes undergoing surgical repair at a single tertiary care center. Outcomes were compared in complex RDs repaired by advanced surgical maneuvers with or without adjunctive MTX. The primary endpoint was single-surgery retinal attachment, assessed at 3 to 5 months, 1 year, and final follow-up. Secondary endpoints included visual acuity (VA), outcomes after silicone oil removal, and corneal epitheliopathy.

RESULTS: There were no significant difference in single-surgery retinal reattachment rates ($P = 1.00$) or VA ($P > 0.05$) at any timepoint. The number of MTX injections was not associated with improved odds of single-surgery reattachment ($OR = 1.02$, $P = 0.73$). Mild corneal epitheliopathy was observed in 28.8% of MTX-treated eyes.

CONCLUSION: Adding intravitreal MTX to advanced vitreoretinal repair techniques did not show significant improvement in the outcomes of complex Grade C PVR RDs. Additional refinement of treatment criteria is likely needed to identify which patients may benefit the most from this additional treatment.

Proliferative vitreoretinopathy (PVR) is a pathological condition characterized by the formation of fibrotic membranes on the retinal surface and within the vitreous cavity. These membranes are typically developed in response to retinal detachment (RD), ocular trauma, or surgical intervention. The rates of PVR development after primary RD repair vary greatly in published reports, ranging from 0% to 10%.¹⁻³ PVR can be divided into two main types; primary PVR arising before vitreoretinal surgical intervention for retinal detachment and secondary PVR arising after an initial attempt at retinal detachment repair.² PVR is the leading cause of failed RD repair, accounting for over 50% of failures in some series. Over time, the contraction of PVR membranes can induce retinal distortion, recurrent detachment, and, if left untreated, permanent vision loss.^{5,7}

Under the most recent grading system introduced by the Retina Society in 1991, PVRs are classified into three stages (A, B, and C) based on increasing severity.⁸ Grade A represents early, minimal changes, such as vitreous haze or dispersed pigment cells in the vitreous.^{3,8} Grade B involves structural alterations, including retinal stiffness, wrinkling, or rolled edges due to cellular proliferation. Grade C, the most severe stage, is further subdivided based on posterior versus

From Harvard Retinal Imaging Lab (IP, MDG, YZ, KNN, SHS, WX, JBM) and Department of Ophthalmology, Massachusetts Eye and Ear, Harvard Medical School (JBM), Boston, Massachusetts.

Equal contribution: IP and MDG contributed equally to this work and should be considered equal first authors.

Disclosure: JBM has received grants or contracts from Intalight and Adaptive Sensory Technology; and is a consultant for Alcon, Allergan, Sunovion, Topcon, Carl Zeiss, and Genentech. The remaining authors have disclosed no potential conflicts of interest, financial or otherwise.

Address correspondence to John B. Miller, MD, Retina Service, Massachusetts Eye and Ear Infirmary, Harvard Medical School, 243 Charles Street, Boston, MA 02114; email: john_miller@mei.harvard.edu.

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GMSJ

GMSJ is a student-led publication dedicated to showcasing the research, insights, and perspectives of medical students. It offers a hands-on opportunity to gain experience in academic publishing, including research dissemination, peer review, and scholarly writing—valuable skills for future careers in academic medicine.

We look forward to reviewing your work and celebrating your contributions to scholarship at Dartmouth!

Read GMSJ's first editorial publication :

Designing and Launching a Student-Led Medical Journal: Structure and Early Implementation of the Graduate Medical Scholars Journal (GMSJ)

<https://gmscholars.com/index.php/gmsj/article/view/inauguralissueNo1>

 Learn more and explore the journal:

<https://gmscholars.com/index.php/gmsj/article/view/inauguralissueNo1>



Datasets for Research

Multiple datasets are available for use to perform clinical and population-based research. These datasets can be used by researchers to answer specific questions related to population.

<https://geiselmed.dartmouth.edu/student-research/datasets-for-research/>

Grant Funding for Research

GrantForward is a search engine that the Dartmouth College grants office has had a contract with for years.

Atom Grants is a grants database but uses DeepAI to auto-match grant opportunities to student/researcher interests and background.



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