



Dartmouth
GEISEL SCHOOL OF
MEDICINE

Office of
MEDICAL STUDENT
RESEARCH

Weekly Newsletter

May 21, 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.

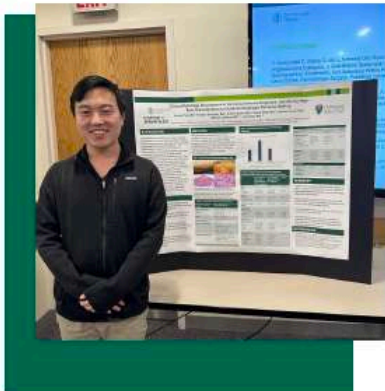
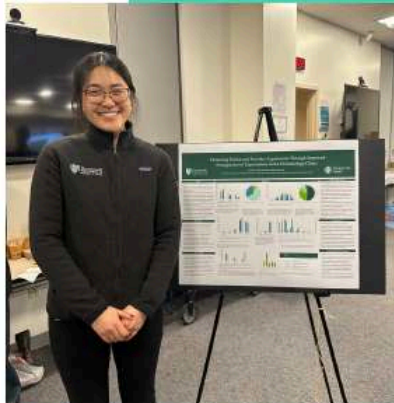
Students are strongly encouraged to visit the office at **Remsen 230** for any research-related information and to begin their research journey.

Contact: Medical.Student.Research@dartmouth.edu



**The Geisel Medical Student Summer Research
Scholarship in Dermatology**

THE GEISEL MEDICAL STUDENT SUMMER RESEARCH SCHOLARSHIP IN DERMATOLOGY



SCHOLARSHIP DESCRIPTION

The Geisel Medical Student Summer Research Scholarship in Dermatology will offer \$2000 or \$4000 to a Geisel medical student to support their time performing research with the Dartmouth Health Department of Dermatology. The student will be mentored by a dermatology faculty member during their summer break between Year 1 and 2.

A number of clinical and translational research opportunities are available. Examples of faculty areas of interest can be found here:

- [Department Research Website](#)

Students are encouraged to reach out directly to faculty members whose research interests align with their own career goals and areas of interest to discuss potential sponsorship opportunities.

Students who already have an established summer research project and faculty mentor are also encouraged to apply. In addition, other dermatology faculty may be available as research mentors, and new student project ideas are welcome to be submitted for consideration. Please note that all applicants must identify a faculty sponsor and obtain faculty sign-off/approval for their proposed project prior to submission.

If you need assistance identifying a faculty mentor or choosing a project or have any other questions about the scholarship please reach out to Brittany.R.Stark@Hitchcock.Org

Students will be required to present their research at the Geisel Poster Night (fall 2026) and the Dermatology Research Night (winter 2027) in addition to any other conferences or manuscript submissions.

To apply, you must submit the following:

- A one-page statement explaining your interest in the specific research project, your overall career plans and background, and a description of how the funds will be used (which can be for personal support)
- A copy of your Curriculum Vitae
- Whether or not you are eligible for or receiving any other financial support (awards, scholarships, or stipends) for your summer research

Deadlines:

- Applications due by midnight, May 25, 2026
- Selected students will be notified by May 29, 2026

Submit Applications [HERE](#)

Apply here :

<https://app.smartsheet.com/b/form/019df85341387a6498f7803030ca69c6>

The Dartmouth Space Medicine Innovations Laboratory is looking for a motivated medical student or undergraduate to assist with an ongoing project investigating brain changes seen in astronauts after spaceflight, and comparing them to similar brain changes seen in bariatric surgery patients. The lab has already published a pilot study and is looking to acquire our own scans for a larger-scale project to further characterize these changes and any implications they may have for long duration spaceflight and patients who undergo extreme weight loss. This study will lead to at least one publication as well as likely multiple offshoot projects, and students will also be welcome to join other projects ongoing at the Space Medicine Innovations Lab. Students will also have numerous mentorship opportunities from lab directors, research assistants, and recent Geisel alumni.

Open to all students; well suited for those with an interest in space medicine, applied physiology, surgery, gastroenterology, or weight and wellness. Interested students may contact to Dr. Richard Rosato (Class of 2026) - Richard.J.Rosato.II.MED@dartmouth.edu or rjrosato98@gmail.com, Dr. Jay Buckey (Jay.C.Buckey.Jr@dartmouth.edu)

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

PCP Input Request

**Let us know your thoughts on smartphone apps and AI
in healthcare by taking our 5-minute survey!**

Who are we?

We are conducting an academic research study in partnership with Dartmouth Health to better understand how primary care clinicians view smartphone-based tools and artificial intelligence in healthcare.

Specifically, we are exploring how AI-driven body composition technologies might fit into primary care workflows, screening practices, and preventive care - and what concerns or barriers clinicians identify.

Your feedback will directly inform future research design and responsible development of digital health tools.

**Scan the QR code to
access the survey!**



Compensation:

Participating clinic sites
will receive a \$250
honorarium.

Have further questions about the study?

Please email the Dartmouth Health Research
Coordinator at Paula.S.Hudon@hitchcock.org or
troi.y.perkins@hitchcock.org

If you are interested in participating, we will arrange a
time to meet with you to confirm your eligibility and
explain the next steps!

General questions about the Kino app?

Contact Toby Reynolds

Co-Founder, Kino
tobyreynolds@kino-fitness.com

Or visit: www.kino-fitness.com



Resources for Students and Incoming Residents Interested in Hematology

For students interested in hematology and incoming residents exploring career options, the American Society of Hematology (ASH) offers a range of helpful resources. These include career guidance, educational materials, and opportunities to support your training and professional development in hematology.

Learn more :

<https://www.hematology.org/education/trainees/medical-student-resident-resources>



NIH Clinical Electives Program: Pediatric Oncology by National Cancer Institute (NCI)

Offered by the NIH Office of Clinical Research Training and Medical Education, this program provides valuable clinical and research experience in pediatric oncology.

Select 4th-year medical students may participate in a 4-week elective rotation at the Pediatric Oncology Branch. This experience highlights the connection between research and patient care in pediatric oncology.

<https://ccr.cancer.gov/Pediatric-Oncology-Branch/training-medical-student-rotation>

If you are interested in preparing for this opportunity, learn more

here. https://www.cc.nih.gov/training/students/clinical_electives/pediatric_oncology

Advancing Your Career as a Medical Education Researcher and Scholar

The AAMC is committed to developing a community of leaders in medical education research and scholarship, to drive innovation across the continuum of medical education, from medical school and residency training to continuing professional development.

AAMC's Scholar Development Pathway guides you through each stage of your scholarly journey, from building essential skills to leading at the national level. This flexible framework allows you to progress step by step or to focus on specific areas that match your career goals. Explore each stage below and discover resources to support your growth.

Learn More : <https://www.aamc.org/about-us/mission-areas/medical-education/scholar-development#innovation>



2026 CO-OP Research Interest Workgroups



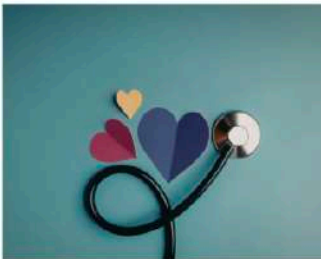
Alcohol Use Disorder (AUD) Led by Brendan Prast, MD, MPH

Proposed first at the 2025 Annual Meeting, members expressed an interest to assess AUD in primary care practices across NNE. The 2026 workgroup is ready to engage new members with their work on a new card study and REDCap survey.

Climate Health

Led by Troi Perkins, MEM, MF

We will examine the use of GLP-1 receptor agonists in children, particularly in the context of diet, exercise, and lifestyle interventions. Members aim to understand prescribing practices, implementation challenges, and the role of these medications in pediatric obesity management.



Expanding Cardiometabolic syndromes

Led by Jiazuo "Henry" Feng, MD

This workgroup explores integrating primary care into community mental health centers, a process known as reverse integration, with a focus on improving access for individuals with serious mental illness. It examines care coordination, outcomes, workforce needs, and funding models to identify best practices for whole-person care.

Food Insecurity

Led by Lauren Ciszak, MD

Food Farmacy, Food as Medicine and nutritional deficits were recommended topics to offer a group focused on areas to further food insecurity research and impact.



AMA RESEARCH CHALLENGE



\$10,000 GRAND PRIZE



AMA Research Challenge

Accepting research abstracts from medical students, residents, and IMGs
Submit an abstract to the AMA Research Challenge—the largest national, multi-specialty research event for medical students, residents, and IMGs for the chance to win a \$10,000 grand prize presented by Laurel Road. The abstract submission deadline is July 16, 2026 at 11:59 p.m. Central time.

Please contact researchsymposium@ama-assn.org if you have any questions.

<https://www.cvent.com/c/abstracts/9c483c64-b66c-4cce-8300-ae28290a4689>



The Geisel M4 Student Research Competition and Award Dinner successfully took place on May 7, 2026, from 5–7 PM at DHMC (Auditorium A–D).

Congratulations to all finalists, winners, and semi-finalists! Thank you to all faculty, Gisele leadership, and attendees for your support, dedication, and participation in making this event a success.

<https://geiselmed.dartmouth.edu/student-research/geisel-m4-student-research-competition-and-award-2026/>

Looking for something else?

To learn about additional ongoing research projects, **visit our website** or **reach out to our office**. <https://geiselmed.dartmouth.edu/student-research>

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

Upcoming Events

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=5&y=2026&v=m>



NNEPQIN
Northern New England
Perinatal Quality Improvement Network
— A Dartmouth Health Program —



NNEPQIN Spring Conference

Designing Strategies to Improve Perinatal Outcomes in Northern New England

 May 28, 2026 (8:45 am – 4:00 pm)  Virtual Live Stream from Lebanon, NH  Free

Thursday May 28, 2026

8:45am Welcome & Opening Remarks
Julie Bosak, DrPH, CNM, MSN, NNEPQIN Executive Director, Lebanon, NH

9:00 Landscape of Obstetrics in Rural Health
Brock Slabach, MPH, FACHE, Chief Operations Officer (COO), National Rural Health Association, Leawood, KS

10:00 CPT 2027 - Maternity Care Services – Coding Restructure
Tammy Love, MSHI, RHIA, CCS, CDIP, Director Coding Classification and Policy, American Hospital Association, Washington, DC

10:30 Break

10:45 Leading the Charge: Enhancing Revenue Through Appropriate Charges and Leveling of Care?
Meaghan Smith MSN, RNC-OB, C-EFM Director of the Family Birth Center Maine Medical Center – Portland, Portland, ME

11:45 LUNCH BREAK

12:45pm Perinatal Bereavement Support - outpatient and inpatient
Amelie Thurston, RN, Clinical Nurse Educator, University of Vermont Medical Center, Burlington, VT
Andrea "Andie" Corley, BSN, RN, Nurse Educator, Nursing Professional Development Practitioner, University of Vermont Medical Center, Burlington, VT
Chelsea Hendrickson, CMA II, Bereavement Doula, University of Vermont Medical Center, Burlington, VT
Marti Churchill, CNM, Lead Midwife, University of Vermont Medical Center, Burlington, VT

1:45 From Pregnancy to Primary Care: Advancing Awareness, Screening, and Systems of Care for Prenatal Alcohol Exposure and FASD
Kristen Eriksen, RN, Family Navigator at FASD United, Caregiver Navigator at MassFASD, FASD United, MassFASD at IHR, Waltham, MA
Marinell Newton, LICSW, Social Worker, Vermont Department of Health, Children with Special Health Needs, Waterbury, VT
Mei Elansary, MD, MPhil, Professor of Pediatrics, Boston Medical Center, Boston, MA

2:45 Break

3:00 A Hard Time to be a Human (especially working with other humans!)
Charity Bell, MPA, Founder, Relentless Positivity, Hollis, NH

<https://dh.cloud-cme.com/course/courseoverview?P=0&EID=159726>

Student Spotlight



Ken Greco, MD-MBA (Class of 2027)

Ken Greco is a fourth-year MD/MBA candidate, applying into dermatology with a focus on rural and underserved care. He is a member of the Rural Health Scholars Pathway, a Gold Humanism Honor Society inductee, a Tuck Health Care Fellow, and an Olive and Joseph Swigart Ethics Fellow.

His research spans dermatology, occupational medicine, and health systems, with active projects on calciphylaxis, heavy metal exposures and associated dermatoses, dermatologic manifestations of GLP-1 receptor agonists, physician perspectives on patients who own firearms, and a recently published study on home radon testing behaviors in *Scientific Reports*. He is also co-developing a multi-state Rural Health Transformation proposal through Dartmouth Health Occupational Medicine.

Before medicine, Ken spent nearly a decade as an ASE-certified automotive technician and manager of a family-owned repair shop in New York – a background that interestingly led him to dermatology, and which continues to inform his interest in occupational dermatoses, operational improvement, and rural workforce health.

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%.¹⁻⁵ 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.^{6,7}

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@meel.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!

Just published: Vol. 2 No. 1 (2026) of Graduate Medical Scholars Journal

<https://gmscholars.com/index.php/gmsj/article/view/11>

 **Learn more and explore the journal:**

<https://gmscholars.com/index.php/gmsj/index>



Dartmouth Medical and Health Sciences Libraries Research Support

A variety of research support services provided by the Dartmouth Medical and Health Sciences

Libraries including information on data searching and management, systematic reviews and analysis, and data sharing and visualization.

For more information :

<https://geiselmed.dartmouth.edu/student-research/dartmouth-biomedical-research-support-pages/>



Interested in an Academic Scholar Year (ASY)?

The Academic Scholar Year (ASY) offers Geisel medical students the opportunity to engage in a structured, rigorous program of academic, scholarly, or research activity. Students remain in good academic standing while pursuing full-time, non-resident scholarly work.

All ASY proposals undergo a formal approval process to ensure high academic quality and educational value.

Want to learn more?

<https://geiselmed.dartmouth.edu/student-research/hospital-specialty-specific-research-opportunities/>



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