OUR MISSION  The mission of the Department of Medicine is to deliver outstanding and compassionate clinical services to all populations, especially the underserved, provide superior education for providers in training, and advance medical knowledge through research.

OUR VISION  We are a thriving department of fulfilled, compassionate, and diverse caregivers committed to patient care, teaching, discovery, and each other. We are unwavering in our dedication to empowering our diverse community to achieve wellness throughout the continuum of care while serving as national leaders in exploring innovative and outstanding models of healthcare.
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“Resilience” is this year’s theme as our department clearly showed and demonstrated significant and notable resilience throughout 2021. Despite the continued impact and direct effect of the COVID-19 pandemic on our patients, our medical staff, our trainees, and our staff, the feeling of hope on being on the other side was apparent.

We continued to make changes and adjustments to the everyday management of our ambulatory clinics, our inpatient practices, and our staffing. Many restrictions were lessened from the previous year and the department learned new ways to work around with the continuation of social distancing, ongoing wearing of protective personal equipment, and adjusting to meetings, discussions, and appointments in remote environments. This became the “new normal.”

The staff demonstrated true resilience in meeting the continued challenges to maintain the Department of Medicine’s viability in providing excellent patient care, supporting our medical students, residents, and fellows in training, and all areas of research.

In 2021, the Department of Medicine continued to address Hennepin Healthcare’s Health Equity and Social Justice initiatives with the development of the Department’s Office of Equity and Social Justice. This Office supports the department in its goal where all people are valued, respected, and supported regardless of race, ethnicity, gender, religion, sexual orientation, age, language, disability, socioeconomic status, or any other difference. The Office is staffed by Dr. Allyson Hart from the Nephrology Division, and Drs. Brian Muthyala and Matthew Young from the Hospital Medicine Division. Throughout 2021, this team worked on development and implementation of strategies to enhance and promote a diverse and inclusive community, bringing an equity and social justice lens throughout all the mission areas of the Department of Medicine. They developed systems and processes of care to improve our patient outcomes for historically excluded communities in collaboration with the Department’s medical staff, staff, patients, trainees and with HHS leaders and other departments. The Office of Equity and Social Justice serves as an excellent resource to address concerns and advancing ideas and initiatives.

Throughout 2021 our providers continued to receive local, national, and international recognition and awards in various specialties for excellence in clinical care, teaching, and research. These impressive recognitions and awards are reported in the Honors and Recognition section of the report. Included in this section are 15 of our physicians from the Mpls.StPaul Magazine list of Top Doctors, 20 physicians in our Mpls.StPaul Magazine Top Doctors Rising Stars, and 34 Minnesota Monthly magazine Top Doctors.
A notable recognition in our quest to deal with the COVID-19 pandemic was the Letter of Appreciation Dr. Jason Baker received this year from the National Institutes of Health (NIH). Specifically, from Dr. Francis Collins, Director of the NIH and Dr. Anthony Fauci, Director of the National Institutes of Health, Allergy and Infectious Diseases and the Chief Medical Advisor to the President of the United States. They recognized Dr. Baker for his contributions to the NIH “Coronavirus Disease 2019 (COVID-19) Treatment Guidelines.”

The efforts and support of many led to the successful academic promotion in the Department of Medicine at the University of Minnesota Medical School of Dr. Fouad Bachour, Cardiology Division, to Professor of Medicine in the Clinician Track, Dr. Allyson Hart, Nephrology Division, to Associate Professor of Medicine in the Academic Track, Dr. Lawrence Kerzner, Geriatric and Palliative Medicine Division, to Professor of Medicine in the Clinician Track, Dr. Saugar Maripuri, Nephrology Division, to Associate Professor of Medicine in the Clinician Track, and Dr. Roberta Meyers, Geriatric and Palliative Medicine Division, to Associate Professor of Medicine in the Clinician Track.

Throughout 2021, the Department continued with virtual Medicine Grand Rounds and Education and Scholarly Forums on Thursdays. By offering the virtual format option, this provided an opportunity to invite a wider scope of speakers to present timely topics including those focusing on health disparities and health equity.

Resilience of our staff continued in year two of COVID-19 restrictions and did not hinder our faculty from obtaining substantial grant and contract funding, presenting virtually at national and international meetings, and publishing over 300 peer-reviewed articles all of which are reported in the Research and Scholarly section of the report.

Our department-wide work continued with the Innovative Seed Grant Program supporting junior faculty with limited research experience pursuing scholarly activity. The program awarded two faculty members with grants.
The year was also the culmination of Hennepin Healthcare System’s (HHS) participation in a federally funded project through the Agency for Healthcare Research and Quality and Project ECHO from the University of New Mexico. The nationwide project was designed to present standardized curriculum developed by the Institute of Healthcare Improvement to staff from Minnesota nursing homes using ECHO methodology and virtual learning sessions. The project covered topics related to the COVID-19 pandemic including infection prevention, surveillance for, and management of, COVID-19, and addressed nursing home staff burn-out and workforce shortages. At HHS, the team presented 100 interactive weekly sessions November 2020 through August 2021. The HHS team included Dr. Roberta Meyers, Greg Leierwood, RN, CNP, and Deanna Bauer, our Project Coordinator.

Throughout 2021, the Department continued to focus on successful recruitment and hiring of dedicated physicians and advanced practice providers to join many of the specialty divisions, as reported in the Faculty section of the report. The Faculty section includes the retirement of Dr. Ronald Molony from the Rheumatology Division following 13 years of service at Hennepin. We thank Dr. Molony for his long-standing dedication and contributions and wish him the best in his retirement.

The Department of Medicine is fortunate to have a group of 83 outstanding advanced practice providers providing care in each of our 14 specialty divisions. These providers, which include seven Leads, continue to be essential to providing ambulatory and inpatient clinical care and are instrumental to our health care teams. Our advanced practice providers are listed on page 29.

**Clinical**

In 2021, the clinics and inpatient services started to rebound from the COVID pandemic. Clinics were getting into a new routine of both in-person and virtual visits while inpatient continued to stay busy but with less COVID cases and back to “traditional” medical care.

Overall, the Department of Medicine campus-based provider ambulatory encounter volumes increased 3.20%. Specialty outreach provider encounters in community clinic settings saw an increase in of 8.8%, compared to prior year. (Aggregate ambulatory encounters increased by 4.5% when compared to prior year, as shown in Figure 1.) Inpatient encounters increased by 1.84% (as shown in Figure 1). Average length of stay continued to stay high at 5.17 from 5.13 in 2020 (3.80 in 2019 and prior). Total gross billings from the Department increased by 24.7%, going from $87,221,459 in 2020 to $108,769,014 in 2021. This increase is driven by the rebound from the COVID pandemic with the increase in clinic visits and inpatient hospital census along with the significant RVU changes in the E&M Visits. In addition, actual aggregate collections saw an increase of the same percentage increase in the percentage points as the gross billings in 2021 (as shown in Figure 2).
**FIG. 1. Provider-Patient Encounters**

- **Outpatient**
  - 2019: 161,870
  - 2020: 157,599
  - 2021: 164,725

- **Inpatient**
  - 2019: 68,613
  - 2020: 71,995
  - 2021: 73,319

- **Total**
  - 2019: 230,423
  - 2020: 229,594
  - 2021: 238,044

**FIG. 2. Trends in Key Funding Sources**

- **Net Clinical Activity**
  - 2019: 31,174,151
  - 2020: 27,772,589
  - 2021: 34,966,169

- **HHRI & HHF Grants & Contracts**
  - 2019: 2,587,659
  - 2020: 2,489,812
  - 2021: 3,356,569

- **Service Contracts**
  - 2019: 3,423,036
  - 2020: 3,487,649
  - 2021: 2,993,862

- **Total**
  - 2019: 37,184,846
  - 2020: 33,750,050
  - 2021: 41,316,600
In 2021, 85% of the Department’s cash revenues came from clinical activities, 7% from service contracts, and 8% from research grants and contracts (as shown in Figure 3). Total costs awarded for Department of Medicine Research Grants and Contracts was $37,215,497 which is a 26% increase over prior year, primarily due to material increases in governmental and industry funded awards in Infectious Diseases, Geriatric Medicine and Clinical Pharmacology, partially offset by a decrease in governmental and industry funded awards in Nephrology.

The Department’s peer-reviewed publications were at record number at 280 and 2 book chapters. The Research and Scholarship section listing the publications begins on page 37 of this report.

Under the continued directorship of Dr. Rosemary Quirk, the Medical Education Program remains strong and resilient. Our residency and fellowship programs continue to be in high demand. For details of 2021, please refer to the program update and summary starting on page 60.

2021 was truly a year of triumph and resilience. I trust that you will find that this annual report shows a department that continues to be strong with incredible commitment to our mission of clinical care, education and research following an unforgettable year of COVID-19.

Arti Prasad, M.D., F.A.C.P.
Department Chair and Scott F. Davies Endowed Chair
Department of Medicine
Hennepin Healthcare System
Professor and Vice Chair of Medicine
University of Minnesota Medical School
Department of Medicine

ADMINISTRATIVE OFFICERS

Chair
Arti Prasad, M.D.

Vice Chair of Clinical Affairs
Roberta M. Meyers, M.D., M.P.H.

Vice Chair of Department and Faculty Affairs
Martin J. Stillman, M.D., J.D.

Vice Chair of Education, Mentorship, and Scholarship
Mark Linzer, M.D.

Vice Chair of Fiscal Affairs
Ronald L. Schut, M.D.

Vice Chair of Graduate Medical Education
Rosemary A. Quirk, M.D., D.T.M.H.

Administrative Operations Manager
Belinda J. Rogers

Practice Managers
Chad W. Hood
Jill E. Kennedy

Director of Graduate Medical Education
Rosemary A. Quirk, M.D., D.T.M.H.

Director of Undergraduate Medical Education
Samuel T. Ives, M.D.

Associate Program Directors
Michael J. Lawson, M.D.
Rawad Nasr, M.D. (January-November)
Jessica L. Oswald, D.O.
Charles P. Reznikoff, M.D.
Brian Yablon, M.D.

Faculty Development for Medical Education Director
Anne L. Becker, M.D.

DIVISION DIRECTORS

Addiction Medicine
Gavin B. Bart, M.D., Ph.D.

Cardiology
Gautam R. Shroff, M.D.

Clinical Pharmacology
Mark G. LeSage, Ph.D.

Endocrinology, Metabolism, and Diabetes
Lisa H. Fish, M.D.

Gastroenterology
Robert J. Matlock, M.D. (January-August)
Scott F. Davies, M.D. (September-December)

General Internal Medicine
Paul E. Johnson, M.D. (January)
Teresa I. Barrera-Anderson, M.D. (February-October)
Tyler N.A. Winkelman, M.D. (November-December)

Geriatric and Palliative Medicine
Thomas J. Klemond, M.D.

Hematology and Medical Oncology
Douglas J. Rausch, M.D. (January)
Satya Bommakanti, M.D. (February-December)

Hospital Medicine
Michael T. Rhodes, M.D.

Infectious Diseases
Jason V. Baker, M.D., M.S.

Integrative Health and Wellness
Richard Printon, D.C.

Nephrology
Kirsten L. Johansen, M.D.

Pulmonary, Allergy and Critical Care
Mark D. Sprenkle, M.D.

Rheumatology
Rawad Nasr, M.D. (January-November)
Faculty 2021

Office of the Chair
Mark Linzer, M.D.  Professor
Roberta M. Meyers, M.D., M.P.H.  Associate Professor
Arti Prasad, M.D.  Professor
Rosemary A. Quirk, M.D., D.T.M.H.  Assistant Professor
Ronald L. Schut, M.D.  Assistant Professor
Martin J. Stillman, M.D., J.D.  Associate Professor

Addiction Medicine
Gavin B. Bart, M.D., Ph.D.  Professor
Brian J. H. Graham, M.D., Ph.D.  Assistant Professor
Kathleen Heaney, M.D.  Assistant Professor
JoAn R. Laes, M.D.  Assistant Professor
Charles P. Reznikoff, M.D.  Associate Professor

Cardiology
Woubeshet Ayenew, M.D.  Assistant Professor
Fouad A. Bachour, M.D.  Professor
Michelle D. Carlson, M.D.  Assistant Professor
David G. Fine, M.D.  Assistant Professor
Steven R. Goldsmith, M.D.  Professor
Charles A. Herzog, M.D.  Professor
Omer J. Iqbal, M.D.  Assistant Professor
Rehan M. Karim, M.D.  Assistant Professor
Louis P. Kohl, M.D.  Assistant Professor
Appesh N. Mohandas, M.D.  Assistant Professor
Gautam R. Shroff, M.D.  Associate Professor
Mengistu A. Simegn, M.D.  Assistant Professor

Clinical Pharmacology
Andrew M. Busch, Ph.D., L.P.  Associate Professor
Andrew C. Harris, Ph.D.  Associate Professor
Sandra Japuntich, Ph.D., L.P.  Associate Professor
Mark G. LeSage, Ph.D.  Professor
Paul R. Pentel, M.D.  Professor

Endocrinology, Metabolism, and Diabetes
Sarah Bou Malham, M.D.  Assistant Professor
Allison J. Estrada, M.D.  Assistant Professor
Lisa H. Fish, M.D.  Assistant Professor
Sarah E. Kempainen, M.D.  Assistant Professor
Laura T. LaFave, M.D.  Assistant Professor

Gastroenterology
Aaron F. Brosam, M.D.  Assistant Professor*
Khalil Farah, M.D.  Assistant Professor
Hernando Gonzalez, M.D.  Assistant Professor
Ahmad H. Malli, M.D.  Assistant Professor
Robert J. Matlock, M.D.  Assistant Professor
Maria E. Moscandrew, M.D.  Assistant Professor

General Internal Medicine
Teresa I. Barrera-Anderson, M.D.  Assistant Professor
Heather W. Baxter, M.D.  Assistant Professor
Sara Champlin, M.D.  Assistant Professor
Ellen M. Coffey, M.D.  Assistant Professor
Carmen N. Divertie, M.D.  Assistant Professor
Mary E. Erickson, M.D.  Assistant Professor
Iesha A. Galloway-Gilliam, M.D.  Assistant Professor
Elizabeth C. Goelz, M.D.  Assistant Professor*
Haeshik S. Gorr, M.D.  Assistant Professor
A. Katherine Hust, M.D., M.P.H.  Assistant Professor
Samuel T. Ives, M.D.  Assistant Professor
Paul E. Johnson, M.D.  Assistant Professor
Spencer Kinzie, M.D.  Assistant Professor
Joshua Lackner, M.D.  Assistant Professor
Kacia M. Lee, M.D.  Assistant Professor
Hannah S. Lichtsinn, M.D.  Assistant Professor
Mark Linzer, M.D.  Professor
Manji Osifeso, M.D.  Assistant Professor
Deepti Pandita, M.D.  Assistant Professor
Maarya Pasha, M.D.  Assistant Professor
Douglas J. Pryce, M.D.  Associate Professor
Danielle C. Robertshaw, M.D.  Assistant Professor
Aaron D. Rutzick, M.D.  Assistant Professor
Carla M. Schultz, M.D.  Assistant Professor
Katherine G. Shafto, M.D.  Assistant Professor
Rachel Sandler Silva, M.D., M.P.H.  Assistant Professor
William Sinnett, M.D.  Assistant Professor
Martin J. Stillman, M.D., J.D.  Associate Professor

* Left Division in 2021.
Faculty 2021

General Internal Medicine (Cont.)
Haylee Veazey, M.D.  Assistant Professor
Katherine D. Vickery, M.D., M.Sc.  Assistant Professor
Meghan M. Walsh, M.D., M.P.H.  Associate Professor
Isaac Weeks, M.D.  Assistant Professor
Erica J. Weiss, M.D.  Assistant Professor
Allison S. Wert, M.D.  Assistant Professor
Tyler NA Winkelman, M.D., M.Sc.  Assistant Professor

Geriatric and Palliative Medicine
Mariam Anwar, M.D.  Assistant Professor
Emily D. Escue, M.D.  Assistant Professor
David Flemig, M.D.  Assistant Professor
Ryan Jozwiak, M.D.  Appointment pending*
Lawrence J. Kerzner, M.D.  Professor
Thomas J. Klemond, M.D.  Assistant Professor
Samuel Maiser, M.D.  Assistant Professor
Martha L. McCusker, M.D.  Assistant Professor
Roberta M. Meyers, M.D., M.P.H.  Associate Professor
Anne M. Murray, M.D., M.Sc.  Professor
Anne G. Pereira, M.D., M.P.H.  Professor
Kerry M. Sheets, M.D.  Assistant Professor

Hematology and Medical Oncology
Satya V. Bommakanti, M.D.  Assistant Professor
Nicole Jacobi, M.D.  Assistant Professor
Rachel Koreth, M.D.  Assistant Professor
Richard J. Lee, M.D.  Assistant Professor
Vicki A. Morrison, M.D.  Professor
Daniel F. Pease, M.D.  Assistant Professor*
Natarajan V. Raman, M.B.B.S., M.D.  Assistant Professor
Douglas J. Rausch, M.D.  Assistant Professor
Karim R. Saab, M.D.  Assistant Professor

Hospital Medicine
Bariituu Adam, M.D.  Assistant Professor
William S. Allen, M.D.  Assistant Professor
Anne L. Becker, M.D.  Assistant Professor
Anushree Bora, M.D.  Assistant Professor
Max Fraden, M.D.  Assistant Professor
Selome G. Gezahegn, M.D.  Assistant Professor
Eric J. Hazen, M.D.  Assistant Professor
David R. Hilden, M.D., M.P.H.  Associate Professor
Awil W. Hirsi, M.D.  Assistant Professor
Daniel G. Hoody, M.D.  Assistant Professor
Ann Isaksen, M.D.  Assistant Professor
Ryan Jelinek, D.O.  Assistant Professor
Matthew Kalina, M.D.  Appointment pending
Matthew D. Klein, M.D.  Assistant Professor*
Adam G. Kolb, M.D.  Assistant Professor
Michael J. Lawson, M.D.  Assistant Professor
Matthew S. Lehnert, M.D.  Assistant Professor
Joshua Liu, M.D.  Assistant Professor
Melanie W. Lo, M.D.  Assistant Professor*
Kayla Lundeen, D.O.  Assistant Professor
Abdirahman Madar, M.D.  Assistant Professor
David Melling, M.D.  Assistant Professor
Robert K. Mittet, M.D.  Assistant Professor
Brian K. Muthyala, M.D., M.P.H.  Assistant Professor
Bishara A. Nassir, M.D.  Assistant Professor
Patrick O’ Connor, M.D.  Assistant Professor
Vignesh Williams Palaniappan, M.D.  Assistant Professor
Justine M. Pidcock, M.D.  Assistant Professor
Rosemary A. Quirk, M.D., D.T.M.H.  Assistant Professor
Michael T. Rhodes, M.D.  Assistant Professor
Steven Richmond, D.O.  Assistant Professor
Aaron D. Rutzick, M.D.  Assistant Professor
Christine Schwab, M.D.  Assistant Professor
Wendy A. Stansbury-O’Donnell, M.D.  Assistant Professor
David B. Van Schyndel, M.D.  Assistant Professor
Gregory Wieland, M.D.  Assistant Professor
Shirlee X. Xie, M.D.  Assistant Professor
Brian Yablons, M.D.  Assistant Professor
Matthew Young, M.D.  Assistant Professor
Maja Zioncheck, M.D.  Assistant Professor

Infectious Diseases
Jason V. Baker, M.D., M.S.  Associate Professor
Kristina Burack, Ph.D.  Assistant Professor
Caitlin Eccles-Radtke, M.D.  Assistant Professor

* Left Division in 2021.
Faculty 2021

Infectious Diseases (Cont.)
Anne E.P. Frosch, M.D., M.P.H. Assistant Professor
W. Keith Henry, M.D. Professor and Clinical Assistant
Professor, School of Public Health
Amanda J. Noska, M.D., M.P.H. Assistant Professor
Jessica Oswald, D.O. Assistant Professor
Ronald L. Schut, M.D. Assistant Professor
Megan K. Shaugnnessy, M.D. Assistant Professor
Nicholas S. Vogenthaler, M.D. Assistant Professor
Rebecca J. Zadroga, M.D., M.P.H. Assistant Professor

Integrated Health and Wellness
Shawn Olson, M.D., M.P.H. Appointment pending*

Nephrology
David C. Dahl, M.D. Assistant Professor
Casey Dorr, Ph.D. Assistant Professor
Keith E. Eidman, D.O. Assistant Professor
David T. Gilbertson, Ph.D. Associate Professor
Allyson Hart, M.D., M.S. Associate Professor
Danielle G. Haselby, D.O. Assistant Professor
Ajay K. Israni, M.D., M.S. Professor
Kirsten L. Johansen, M.D. Professor
Bertram L. Kasiske, M.D. Professor
Saugar Maripuri, M.D., M.P.H. Associate Professor
Warren McKinney, Ph.D. Assistant Professor
Eileen A. O'Shaughnessy, M.D. Assistant Professor
Meena Sahadevan, M.D. Assistant Professor
Cory R. Schaffhausen, Ph.D. Assistant Professor
John R. Silkensen, M.D. Assistant Professor
Connie Wang, M.D. Associate Professor
Jeffrey H. Wang, M.D. Assistant Professor
James B. Wetmore, M.D., M.S. Professor
Jennifer F. Wu, D.O. Assistant Professor

Pulmonary, Allergy and Critical Care
Scott F. Davies, M.D. Professor
Kenneth W. Dodd, M.D. Assistant Professor
Joshua M. Dorn, M.D. Assistant Professor
Heidi L. Erickson, M.D. Assistant Professor
Robert Kempainen, M.D. Associate Professor

James W. Leatherman, M.D. Professor
Michele M. LeClaire, M.D. Assistant Professor
William A. Marinelli, M.D. Associate Professor
Matthew E. Prekker, M.D., M.P.H. Associate Professor
Robert S. Shapiro, M.D. Assistant Professor
Mark D. Sprenkle, M.D. Assistant Professor
John B. Sweet, M.D. Assistant Professor

Rheumatology
Ronald R. Molony, M.D. Assistant Professor*
Rawad Nasr, M.D. Assistant Professor*
Linh Ngo, D.O. Assistant Professor*
Peter A. Schlesinger, M.D. Assistant Professor
Zaki Abou Zahr, M.D. Assistant Professor*

Medical Education Program
Anne L. Becker, M.D. Assistant Professor
Hospital Medicine
Samuel T. Ives, M.D. Assistant Professor
General Internal Medicine
Michael J. Lawson, M.D. Assistant Professor
Hospital Medicine
Rawad Nasr, M.D. Assistant Professor*
Rheumatology
Jessica L. Oswald, D.O. Assistant Professor
Infectious Diseases
Rosemary A. Quirk, M.D., D.T.M.H. Assistant Professor
Hospital Medicine
Charles P. Reznikoff, M.D. Associate Professor
Addiction Medicine
Brian Yablon, M.D. Assistant Professor
Hospital Medicine

Medicine Chief Residents (2020-2021)
Jeffrey Larson, M.D. Instructor*
Joseph Steffens, M.D. Instructor*
Kathleen Wilcox, M.D. Instructor*

Medicine Chief Residents (2021-2022)
Peter Bache-Wiig, M.D. Instructor
Max Fuller, M.D. Instructor
Rebecca Kummer, M.D. Instructor

* Left Division in 2021.
<table>
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<tr>
<th>DIVISION</th>
<th>NAME</th>
<th>FORMER ACADEMIC POSITION</th>
<th>CURRENT POSITION</th>
<th>DEPARTURE DATE</th>
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<tr>
<td>Gastroenterology</td>
<td>Aaron Brosam, M.D.</td>
<td>Assistant Professor</td>
<td>Gastroenterologist</td>
<td>November 2021</td>
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<td>Park Nicollet Clinic</td>
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<td>St. Louis Park, Minnesota</td>
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<tr>
<td>General Internal Medicine</td>
<td>Elizabeth C. Goelz, M.D.</td>
<td>Assistant Professor</td>
<td>In Transition</td>
<td>June 2021</td>
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<tr>
<td>Geriatric and Palliative Medicine</td>
<td>Ryan Jozwiak, M.D.</td>
<td>Appointment pending</td>
<td>Palliative Medicine Physician</td>
<td>June 2021</td>
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<td>Hematology/Medical Oncology</td>
<td>Daniel F. Pease, M.D.</td>
<td>Assistant Professor</td>
<td>Hematology Oncologist</td>
<td>April 2021</td>
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<td>Robbinsdale, Minnesota</td>
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<td>Hospital Medicine</td>
<td>Matthew D. Klein, M.D.</td>
<td>Assistant Professor</td>
<td>Internal Medicine/Hospitalist</td>
<td>January 2021</td>
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<td>Mayo Clinic</td>
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<td>Rochester, Minnesota</td>
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<td></td>
<td>Melanie W. Lo, M.D.</td>
<td>Assistant Professor</td>
<td>General Medicine Physician</td>
<td>July 2021</td>
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<td></td>
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<td></td>
<td>Auckland City Hospital</td>
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<td>Auckland, New Zealand</td>
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<tr>
<td>Integrative Health and Wellness</td>
<td>Shawn Olson, M.D.</td>
<td>Appointment pending</td>
<td>In Transition</td>
<td>December 2021</td>
</tr>
<tr>
<td>Rheumatology</td>
<td>Ronald R. Molony, M.D.</td>
<td>Assistant Professor</td>
<td>Retirement</td>
<td>July 2021</td>
</tr>
<tr>
<td></td>
<td>Rawad Nasr, M.D.</td>
<td>Assistant Professor</td>
<td>Rheumatologist</td>
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<td>Park Nicollet Clinic</td>
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<td></td>
<td>St. Louis Park, Minnesota</td>
<td>December 2021</td>
</tr>
<tr>
<td></td>
<td>Linh Ngo, D.O.</td>
<td>Assistant Professor</td>
<td>Rheumatologist</td>
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<td>Park Nicollet Clinic</td>
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<td></td>
<td>St. Louis Park, Minnesota</td>
<td>June 2021</td>
</tr>
<tr>
<td></td>
<td>Zaki Abou Zahr, M.D.</td>
<td>Assistant Professor</td>
<td>In Transition</td>
<td>September 2021</td>
</tr>
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Continued next page
<table>
<thead>
<tr>
<th>DIVISION</th>
<th>NAME</th>
<th>FORMER ACADEMIC POSITION</th>
<th>CURRENT POSITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medical Education</td>
<td>Jeffrey J. Larson, M.D.</td>
<td>Instructor</td>
<td>Pulmonary/Critical Care Fellow University of Minnesota Minneapolis, Minnesota</td>
</tr>
<tr>
<td>Program</td>
<td></td>
<td></td>
<td>June 2021</td>
</tr>
<tr>
<td>Medicine</td>
<td>Joseph D. Steffens, M.D.</td>
<td>Instructor</td>
<td>Cardiovascular Diseases Fellow Hennepin Healthcare Minneapolis, Minnesota</td>
</tr>
<tr>
<td>Chief Residents</td>
<td></td>
<td></td>
<td>June 2021</td>
</tr>
<tr>
<td></td>
<td>Kathleen A. Wilcox, M.D.</td>
<td>Instructor</td>
<td>Primary Care Physician Legacy Emanuel Medical Center Portland, Oregon</td>
</tr>
<tr>
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<td></td>
<td>June 2021</td>
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<tr>
<td>DIVISION</td>
<td>NAME</td>
<td>FORMER POSITION</td>
<td>CURRENT ACADEMIC POSITION</td>
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</tr>
<tr>
<td>Geriatric and Palliative Medicine</td>
<td>Emily Escue, M.D.</td>
<td>Palliative Care Physician M Health Fairview Minneapolis, Minnesota</td>
<td>Assistant Professor</td>
</tr>
<tr>
<td></td>
<td>David Flemig, M.D.</td>
<td>Palliative Care Physician Mount Sinai Hospital New York, New York</td>
<td>Assistant Professor</td>
</tr>
<tr>
<td></td>
<td>Anne G. Pereira, M.D., M.P.H.</td>
<td>Hospice and Palliative Medicine Fellow Department of Family Medicine University of Minnesota Minneapolis, Minnesota</td>
<td>Professor</td>
</tr>
<tr>
<td>Hospital Medicine</td>
<td>Bariituu Adam, M.D.</td>
<td>COVID Hospitalist Johns Hopkins University School of Medicine Baltimore, Maryland</td>
<td>Assistant Professor</td>
</tr>
<tr>
<td></td>
<td>Ryan Jelinek, D.O.</td>
<td>Clinical Informatic Fellowship Hennepin Healthcare Minneapolis, Minnesota</td>
<td>Assistant Professor</td>
</tr>
<tr>
<td></td>
<td>Joshua Liu, M.D.</td>
<td>Internal Medicine Resident Stanford University School of Medicine Hospitalist, Vituity Healthcare O’Connor Hospital San Jose, California</td>
<td>Assistant Professor</td>
</tr>
<tr>
<td></td>
<td>Brian K. Muthyala, M.D., M.P.H.</td>
<td>Internal Medicine and Pediatrics Hospitalist University of Minnesota Minneapolis, Minnesota</td>
<td>Assistant Professor</td>
</tr>
<tr>
<td></td>
<td>Gregory Wieland, M.D.</td>
<td>Internal Medicine Resident Hennepin Healthcare Minneapolis, Minnesota</td>
<td>Assistant Professor</td>
</tr>
<tr>
<td>Infectious Diseases</td>
<td>Amanda J. Noska, M.D., M.P.H.</td>
<td>Section Chief, Infectious Diseases Essentia Health St. Mary's Medical Center and Duluth Clinic Duluth, Minnesota</td>
<td>Assistant Professor</td>
</tr>
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Continued next page
## NEW FACULTY 2021 (CONT.)

<table>
<thead>
<tr>
<th>DIVISION</th>
<th>NAME</th>
<th>FORMER POSITION</th>
<th>CURRENT ACADEMIC POSITION</th>
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<tbody>
<tr>
<td></td>
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<td>Appointment Pending</td>
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<tr>
<td><strong>Integrative Health and Wellness</strong></td>
<td>Shawn M. Olson, M.D., M.P.H.</td>
<td>Lifestyle Medicine Director Dome Ranch Lifestyle Medicine Collaborative Elmwood, Wisconsin</td>
<td>August 2021</td>
</tr>
<tr>
<td><strong>Medical Education Program: Medicine Chief Residents</strong></td>
<td></td>
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<tr>
<td></td>
<td>Peter Bache-Wiig, M.D.</td>
<td>Internal Medicine Resident Hennepin Healthcare Minneapolis, Minnesota</td>
<td>Instructor July 2021</td>
</tr>
<tr>
<td></td>
<td>Max Fuller, M.D.</td>
<td>Internal Medicine Resident Hennepin Healthcare Minneapolis, Minnesota</td>
<td>Instructor July 2021</td>
</tr>
<tr>
<td></td>
<td>Rebecca Kummer, M.D.</td>
<td>Internal Medicine Resident Hennepin Healthcare Minneapolis, Minnesota</td>
<td>Instructor July 2021</td>
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</tbody>
</table>
2021 Honors and Recognition of Faculty

OFFICE OF THE CHAIR

Arti Prasad, M.D.
Department Chair
Advisory Committee, FORESIGHT, The Rippel Foundation
Board of Directors, Pathways
Consortium of Academic Health Centers for Integrative Medicine:
• Clinical Working Work Member
• Steering Committee
Founding Board of Directors, American Board of Integrative Medicine
TRUST Award, Women’s Health Leadership

Mark Linzer, M.D., M.A.C.P.
Vice Chair of Education, Mentorship, and Scholarship
Wellness Infrastructure Committee, American College of Physicians

Robert M. Meyers, M.D., M.P.H.
Vice Chair of Clinical Affairs
Agency for Healthcare Research and Quality, ECHO National Nursing Home COVID-19 Action Network, Project Lead for the Hennepin Healthcare System Training Center
Minnesota Association of Geriatrics Inspired Clinicians:
• Board of Directors
• Editor, TOPICS e-newsletter
Minnesota Gerontological Society:
• Board of Directors
• Education Committee
• President-Elect
Top Doctors Award, Minnesota Monthly Magazine

Rosemary Quirk, M.D.
Vice Chair of Graduate Medical Education
Clinical Teaching Award, EM-IM Residency, Hennepin Healthcare

Ronald L. Schut, M.D.
Vice Chair of Fiscal Affairs
Top Doctors Award, Minnesota Monthly Magazine
Top Doctors Award, Mpls.St.Paul Magazine

Martin J. Stillman, M.D., J.D.
Vice Chair of Department and Faculty Affairs
Advisory Board, Health Law Institute, Hamline University School of Law
Advisory Committee, Minnesota Medicine
Council Member, American Arbitration Association, Health Care Dispute Resolution Advisory Council
Minnesota COVID-19 Ethics Collaborative Committee, Minnesota Department of Health, State Health Care Coordination Center, Minnesota Hospital Association, and the University of Minnesota

ADDICTION MEDICINE

Gavin B. Bart, M.D., Ph.D.
Advisory Board, US Substance Abuse and Mental Health Services Administration, South East Asia HIV Addiction Technology Transfer Center
National Institute on Drug Abuse, Center for the Clinical Trials Network:
• Research Development Committee
• Review Committee, Development of Medications to Prevent and Treat Opioid Use Disorders and Overdose Vice Chair, Steering Committee
Planning Committee, National Academies of Sciences, Engineering, and Medicine Methadone Treatment for Opioid Use Disorder: Examining Federal Regulations and Laws: A Workshop
Region VI Director, American Society of Addiction Medicine
Scientific Advisory Board, DRIVE (Drug use and blood-borne infections in Vietnam)
Top Doctors Award, Minnesota Monthly Magazine
Associate Editor, Addiction Science and Clinical Practice
2021 Honors and Recognition of Faculty

**ADDITION MEDICINE (CONT.)**

**Brian J. H. Grahan, M.D., Ph.D.**
Medication Assisted Treatment Work Group, Institute for Clinical Systems Improvement
Top Doctors Award, *Minnesota Monthly* Magazine

**Kathleen Heaney, M.D.**
Best Teacher Award, G2 Residency Class, Hennepin-Regions Psychiatry Program

**JoAn R. Laes, M.D.**
American College of Medical Toxicology:
- Co-Chair, Addiction Medicine Specialty Interest Section
- Education Committee
- Leader, Practice Management Sub-section
- Practice Development Specialty Interest Section
American Society of Addiction Medicine:
- Chair, Medical Toxicology Workgroup
Top Doctors Award, *Minnesota Monthly* Magazine

**Charles P. Reznikoff, M.D.**
American College of Physicians:
- Council
- Quality Improvement Champion, Inpatient Opioid Prescribing
- Scientific Planning Committee
Charter Member, Minnesota Society of Addiction Medicine
Governor’s Task Force for Medical Cannabis
Medical Advisory Committee, Steven Rummler Memorial Foundation
Minnesota Health Collaborative, Institute for Clinical Systems Improvement:
- Leader, Opioid Oversight Working Group
- Quality Improvement Steering Committee, Opioid Prescribing Improvement Program
- Representative to the Minnesota Health Collaborative
Pain Care Task Force, American Medical Association
Top Doctors Award, *Minnesota Monthly* Magazine

**CARDIOLOGY**

**Woubeshet Ayenew, M.D.**
Board of Directors, American Heart Association
Founder and Chairman, Ethiopian Community Health Board
Top Doctors Award, *Minnesota Monthly* Magazine
Top Doctors Award, *Mpls.St.Paul Magazine*

**Michelle D. Carlson, M.D.**
Top Doctors Award, *Minnesota Monthly* Magazine

**Steven R. Goldsmith, M.D.**
Director, Minnesota Heart Failure Consortium
2021 Honors and Recognition of Faculty

CARDIOLOGY (CONT.)

Charles A. Herzog, M.D.
American Heart Association:
• Scientific Statement Work Group, Home Therapies
• Scientific Statement Work Group, Management of Kidney and Liver Transplant Candidates
Cardio-Renal Steering Group, International Society of Nephrology Collaboration
Chair, Critical Event Committee, Canadian-Australasian Randomized Trial of Screening Kidney Transplant Candidates for Coronary Artery Disease (CARSK)
Co-Chair, Kidney Health Initiative Workgroup, Understanding and Overcoming the Exclusion of Patients with Kidney Disease from Cardiovascular Trials
Data Monitoring Committee, MK2060 Phase 2 Study
Data Monitoring Committee, The Study of Heart and Kidney Protection with Empagliflozin (EMPA-KIDNEY) Trial
Executive Committee, DIALIZE-OUTCOMES Trial (Effect of Sodium Zirconium Cyclosilicate on Arrhythmia-related Cardiovascular Outcomes in Participants on Chronic Hemodialysis with Recurrent Hyperkalemia)
Planning Committee and Session Moderator, eSPACE CRM International Symposium
Steering Committee, Canadian-Australasian Randomized Trial of Screening Kidney Transplant Candidates for Coronary Artery Disease (CARSK)
Steering Committee, Cardiovascular and Renal Protection with SGLT2 Inhibition in Kidney Transplant Recipients (Renaissance) Trial
Editorial Board, American Heart Journal

Rehan M. Karim, M.D.
Audit Committee, Heart Rhythm Society
Top Doctors Award, Minnesota Monthly Magazine

Gautam R. Shroff, M.D.
Top Doctors Award, Minnesota Monthly Magazine

Mengistu A. Simegn, M.D.
Adjudication Member, Clinical End Point Committee for the CARSK (Canadian-Australian Randomized Trial of Screening Kidney Transplant Candidates for Coronary Artery Disease)
Medical Staff Honors Award for Outstanding Contributions in Academics, Hennepin Healthcare
Top Doctors Award, Minnesota Monthly Magazine

CLINICAL PHARMACOLOGY

Andrew M. Busch, Ph.D., L.P.
Chair, Data Safety Monitoring Board, Implementation of Cessation Treatment in Community Based Mental Health Centers
Lung Mind Alliance Statewide Policy Strategy Design Team, Tobacco Cessation Services
Society for Behavioral Medicine:
• Chair, Cardiovascular Disease Special Interest Group
• Chair, Topic Area, Cardiovascular Disease
Editorial Board, Clinical Psychology Review

Andrew C. Harris, Ph.D.
Special Emphasis Panel ZRG 1 IFCN-E (56), Tobacco Regulatory Science: Understanding Tobacco Product Toxicology and Abuse Liability, National Institutes of Health, Food and Drug Administration

Sandra Japuntich, Ph.D., L.P.
Lung Cancer Screening Conference Planning Committee, A Breath of Hope Lung Foundation
Lung Mind Alliance, American Lung Association

Mark G. LeSage, Ph.D.
Consultant, Center for Tobacco Products, Food and Drug Administration

Paul R. Pentel, M.D.
Board of Directors, Association for Non-Smokers
Commercial Tobacco Cessation Advisory Committee, Minnesota Department of Health
2021 Honors and Recognition of Faculty

ENDOCRINOLOGY, METABOLISM AND DIABETES

Sarah Bou Malham, M.D.
Top Doctors Award, *Minnesota Monthly* Magazine

Allison Estrada, M.D.
Top Doctors Award, *Minnesota Monthly* Magazine

Lisa H. Fish, M.D.
Top Doctors Award, *Minnesota Monthly* Magazine

Sarah E. Kempainen, M.D.
Advisory Board, YMCA Diabetes Prevention

Laura T. LaFave, M.D.
Top Doctors Award, *Minnesota Monthly* Magazine

GASTROENTEROLOGY

Khalil Farah, M.D.

Hernando Gonzalez, M.D.
American Society for Gastrointestinal Endoscopy:
- Chair, Special Interest Group, Latin America
- International Committee
- Vice Chair, Latin America International Committee
Director of Publications, Inter-American Society of Digestive Endoscopy
Top Doctors Award, *Minnesota Monthly* Magazine

Robert J. Matlock, M.D.
Top Doctors Award, *Minnesota Monthly* Magazine

GENERAL INTERNAL MEDICINE

Heather W. Baxter, M.D.

Ellen M. Coffey, M.D.
Planning Committee, Chronic Kidney Disease Update for Primary Care, National Kidney Foundation, Minnesota Chapter
Professional Advisory Board, Minnesota Visiting Nursing Agency
Best Staff Teacher Award, Department of Medicine, Hennepin Healthcare
Top Doctors Award, *Minnesota Monthly* Magazine
Top Doctors Award, *Mpls.St.Paul Magazine*

Iesha Galloway-Gilliam, M.D.
Clinical Excellence Award, Department of Medicine, Hennepin Healthcare

A. Katherine Hust, M.D., M.P.H.
Hennepin Health Clinical Strategy Committee, Hennepin Health Plan
Measurement & Reporting Committee, Minnesota Community Measurement

Samuel T. Ives, M.D.
Inducted into the Alpha Omega Alpha Honor Society

Paul E. Johnson, M.D.
Top Doctors Award, *Minnesota Monthly* Magazine
2021 Honors and Recognition of Faculty

GENERAL INTERNAL MEDICINE (CONT.)

Hannah S. Lichtsinn, M.D.
American Academy of Pediatrics:
• Board Member, Minnesota Chapter
• Co-Chair, Health Policy
Chair, Executive Board, Our Stories. Our Health
Co-Founder, Minnesota Immigrant Health Alliance
Right 2 Health Action:
• Core Team
• Policy Team
Medical Staff Honors, Community Engagement Award, Hennepin Healthcare
Top Doctors Award, Minnesota Monthly Magazine

Mark Linzer, M.D., M.A.C.P.
See Office of the Chair

Deepti Pandita, M.D.
American Medical Informatics Association:
• Board of Directors, Physicians in Informatics
• National Member, Clinical Decision Support Work Group
• Primary Work Group
• Women in Informatics Task Force
Board of Directors, Minnesota Doctors for Health Equity
Future Vision Work Group, Agency for Healthcare Research and Quality (AHRQ), AHRQ Evidence-Based Care Transformation Support
Minnesota American College of Physicians:
• Chair, Health Information Technology Committee
• Public Policy and Advocacy Committee
National American College of Physicians:
• Digital Health Committee
• Minnesota Health Information Technology Committee
• Telehealth Committee
• Vice Chair, Medical Informatics Committee
Inspiration Award, American Medical Association
Laureate Award, Minnesota American College of Physicians

Douglas J. Pryce, M.D.
Chair, Board of Directors, East African Project

Danielle C. Robertshaw, M.D.
National Health Care for the Homeless Council:
• Board of Directors
• Clinicians’ Network
• Policy Committee
• Respite Care Provider’s Network
Co-Recipient, America’s Essential Hospitals Gage Award, first place in Quality for Reducing 30 Day Readmissions in a Population Experiencing Homelessness

Carla M. Schultz, M.D.
Medical Staff Honors Award for Outstanding Contributions in Clinical Care, Hennepin Healthcare

Rachel Sandler Silva, M.D., M.P.H.
Employee Excellence Award, Jail Health Services, Hennepin Healthcare

Martin J. Stillman, M.D., J.D.
See Office of the Chair

Katherine D. Vickery, M.D., M.Sc.
Co-Director, Homelessness Special Interest Group, North American Primary Care Research Group
Invited Scholar, Institute for Implementation Science Scholars (IS-2), Washington University, St. Louis, Missouri
National Health Care for the Homeless Council:
• Board Member
• Chair, Research Committee
Technical Expert Panel, National Quality Forum,
Best Practices for Developing and Testing Risk Adjustment Models
Top Doctors: Rising Star, Mpls.St.Paul Magazine
2021 Honors and Recognition of Faculty

GENERAL INTERNAL MEDICINE (CONT.)

Meghan M. Walsh, M.D., M.P.H.
Parker J. Palmer Courage to Lead Award for Extraordinary Accomplishments in Graduate Medical Education, Accreditation Council for Graduate Medical Education
Top Doctors Award, Mpls.St.Paul Magazine

Tyler N.A. Winkelman, M.D., M.Sc.
Board of Directors, Academic Consortium on Criminal Justice Health
Board of Directors, Twin Cities Medical Society
Top Doctors: Rising Star, Mpls.St.Paul Magazine

GERIATRIC AND Palliative MEDICINE

Mariam Anwar, M.D.
Clinical Practice Alliance Committee:
- Task Force, Provider Treatment Considerations of COVID-19 Management in Congregate Living Setting

David Flemig, M.D.
Palliative Care Educator of the Year, Brookdale Department of Geriatrics and Palliative Care, Mount Sinai School of Medicine in New York

Lawrence J. Kerzner, M.D.
Consultant, State of Minnesota Attorney General’s Office for Criminal Elder Mistreatment
Minnesota Elder Justice Center:
- Board of Directors
- Policy Committee
Top Doctors Award, Minnesota Monthly Magazine

Thomas J. Klemond, M.D.
Top Doctors Award, Minnesota Monthly Magazine

Samuel Maiser, M.D.
Top Doctors Award, Minnesota Monthly Magazine

Roberta M. Meyers, M.D. M.P.H.
See Office of the Chair

Anne M. Murray, M.D., M.Sc.
Review Panel Member, Data Safety and Monitoring Board NIA FIT- AD
Top Doctors Award, Minnesota Monthly Magazine

Kerry M. Sheets, M.D.
Editorial Board, Journal of the American Geriatrics Society

HEMATOLOGY AND MEDICAL ONCOLOGY

Nicole Jacobi, M.D.
Top Doctors Award, Minnesota Monthly Magazine

Rachel Koreth, M.D.
Top Doctors Award, Minnesota Monthly Magazine

Vicki A. Morrison, M.D.
Advisory Committee on Immunization Practices, Herpes Zoster Working Group, Centers for Disease Control Alliance for Clinical Trials in Oncology:
- Cancer in the Older Adult Committee
- Lymphoma Core Committee
American Society of Clinical Oncology:
- Dose Optimization Task Force
- Appropriate Chemotherapy Dosing for Obese Adult Patients with Cancer, Clinical Practice Guideline Update
- Daily News Writing/Podcast Sources Committee
- In-Training Exam Task Force
International Society of Geriatric Oncology:
- Membership and National Representative Committee, Midwest Region
Scientific Committee on Lymphoid Neoplasia, American Society of Hematology
Editorial Board, Journal of Geriatric Oncology
2021 Honors and Recognition of Faculty

HEMATOLOGY AND MEDICAL ONCOLOGY (CONT.)

Daniel F. Pease, M.D.

Douglas J. Rausch, M.D.
Top Doctors Award, *Minnesota Monthly Magazine*
Top Doctors Award, *Mpls.St.Paul Magazine*

Karim R. Saab, M.D.
American Society of Clinical Oncology:
  • Board of Directors
  • Item Writing Committee

HOSPITAL MEDICINE

Anne Becker, M.D.
Wellness Champion, Minnesota Chapter of American College of Physicians

David R. Hilden, M.D., M.P.H.
American College of Physicians:
  • Health and Public Policy Committee
  • Vice Chair
Governor, Minnesota Chapter of the American College of Physicians
Minnesota’s 100 Most Influential Health Care Leaders, *Minnesota Physician*
Top Doctors Award, *Minnesota Monthly Magazine*
Top Doctors Award, *Mpls.St.Paul Magazine*

Daniel G. Hoody, M.D.
Top Doctors Award, *Minnesota Monthly Magazine*

Ann Isaksen, M.D.
Top Doctors Award, *Minnesota Monthly Magazine*

Ryan Jelinek, D.O.
Advisory Board Member, Great Plains Telehealth Resource and Assistance Center
Executive Board Member, AMIA College of Informatics Fellows
Executive Board Member, Minnesota Doctors for Health Equity

Matthew D. Klein, M.D.
Minnesota State:
  • Capital Investment
  • Health and Human Services Finance and Policy
  • Health Services Reform Finance and Policy
  • Senator

Abdirahman Madar, M.D.
Board Member, Somali Medical Association of North America
Board of Directors, Horn Development Center
Founder and President, Board of Directors, Somalilander, American Health Association

David Melling, M.D.

Robert K. Mittet, M.D.

Brian K. Muthyala, M.D., M.P.H.
Gold Humanism Honor Society 2021 Champion of Humanistic Care
The John Song Distinguished Mentoring Award – University of Minnesota Medical School

Rosemary Quirk, M.D.
See Office of the Chair

Steven Richmond, D.O.
2021 Honors and Recognition of Faculty

HOSPITAL MEDICINE (CONT.)

Shirlee X. Xie, M.D.
Top Doctors Award, *Minnesota Monthly Magazine*

Brian Yablon, M.D.
Minnesota Steering Committee, Physicians for a National Health Program

INFECTIOUS DISEASES

Jason V. Baker, M.D., M.S., F.I.D.S.A.
Letter of Recognition for work on COVID-19 treatment protocols from Dr. Anthony Fauci, Director of the National Institute of Allergy and Infectious Diseases
Protocol Development Team, NIH ACTIV-3 Trial (Accelerating COVID-19 Therapeutic Interventions and Vaccines): A multicenter, adaptive, randomized blinded controlled trial of the safety and efficacy of investigational therapeutics for hospitalized patients with COVID-19
Protocol Team, Strategic Timing of Anti-Retroviral Treatment (START) Trial
Scientific Steering Committee, International Network for Strategic Initiatives in Global HIV Trials
Trial Steering Committee, MAVMET Trial: A multicenter, a multicenter, 48week randomized controlled factorial trial of adding Maraviroc and/or Metformin for hepatic steatosis in HIV-1-infected adults on combination antiretroviral therapy
United States National Institutes of Health Panel on Coronavirus Disease 2019 (COVID-19) Treatment Guidelines
Top Doctors Award, *Minnesota Monthly Magazine*
Editorial Panel, *HIV Medicine*

Caitlin Eccles-Radtke, M.D.
Top Doctors Award, *Minnesota Monthly Magazine*

W. Keith Henry, M.D.
Executive Committee, Study to Understand the Natural History of HIV/AIDS in the Era of Effective Therapy (SUN Study), Center for Disease Control Planning Council, Minnesota Ryan White Editorial Boards:
- *AIDS Clinical Care*
- *Journal of AIDS*

Amanda J. Noska, M.D., M.P.H.
Four Star Clinical Excellence Award, Essentia Health

Jessica L. Oswald, D.O.

Ronald L. Schut, M.D.
See Office of the Chair

Megan K. Shaughnessy, M.D.
Medical Monitor, National Institute of Allergy and Infectious Diseases (NIAID), Inpatient Treatment with anti-Coronavirus Immunoglobulin (ITAC), University of Minnesota
Top Doctors Award, *Minnesota Monthly Magazine*

Nicholas S. Vogenthaler, M.D.
Top Doctors Award, *Minnesota Monthly Magazine*

Rebecca J. Zadroga, M.D.
Top Doctors Award, *Minnesota Monthly Magazine*
2021 Honors and Recognition of Faculty

**NEPHROLOGY**

**Keith E. Eidman, D.O.**
Top Doctors Award, *Minnesota Monthly Magazine*
Top Doctors Award, *Mpls.St.Paul Magazine*

**David T. Gilbertson, Ph.D.**
External Expert Panel for the Chronic Renal Insufficiency Cohort (CRIC) Studies, National Institute of Diabetes and Digestive and Kidney Disease, National Institutes of Health

**Allyson Hart, M.D., M.S.**
Event Adjudication Committee, Canadian-Australasian Randomised Trial of Screening Kidney Transplant Recipients for Coronary Artery Disease (CARSK Trial)
Safety Officer, Data and Safety Monitoring Board: Mindful Movement for Physical Activity and Wellbeing in Older Adults: A Community Based Randomized Hybrid Effectiveness-Implementation Study
Top Doctors Award, *Minnesota Monthly Magazine*

**Danielle G. Haselby, D.O.**

**Ajay K. Israni, M.D., M.S.**
Kidney Precision Medicine Project COVID-19 Data Safety Monitoring Board, NIDDK, NIH
Scientific Registry of Transplant Recipients:
- Deputy Project Director
- Medical Director

**Kirsten L. Johansen, M.D.**
External Expert Panel Member, Chronic Renal Insufficiency Cohort, National Institute of Diabetes and Digestive and Kidney Diseases
Observational Study Monitoring Board, Study of Physical Resilience and Aging, National Institute of Aging
Steering Committee, Glaxo Smith Kline Anaemia Studies in Chronic Kidney Disease: Erythropoiesis via a Novel PHI Daprodustat (ASCEND) Study
United States Renal Data System, Director
Lazarus Distinguished Award, National Kidney Foundation
Associate Editor, *Journal of the American Society of Nephrology*
Editorial Board:
- *American Journal of Kidney Diseases*
- *Clinical Journal of the American Society of Nephrology*
- *Journal of the American Society of Nephrology*
- *Journal of Renal Nutrition*
- *Kidney International*
Theme Editor, Hemodialysis, *Nephrology, Dialysis, Transplantation*

**Bertram L. Kasiske, M.D.**
Board of Trustees, CADASIL Association
Medical Director for Living Donation, Scientific Registry of Transplant Recipients, Health Resources and Services Administration
Methods Committee, Kidney Disease: Improving Global Outcomes

**Saugar Maripuri, M.D., M.P.H.**
Bertram Kasiske Nephrology Teaching Award, Nephrology Fellowship, Hennepin Healthcare
Top Doctors Award, *Minnesota Monthly Magazine*
2021 Honors and Recognition of Faculty

**NEPHROLOGY (CONT.)**

**Eileen A. O'Shaughnessy, M.D.**
Top Doctors Award, *Minnesota Monthly Magazine*

**Jon J. Snyder, Ph.D., M.S.**
Board of Directors, Organ Donation and Transplantation Alliance
Clinical Policy Board, LifeSource
Secretary, Board of Directors, Donate Life America
Associate Editor, *Transplantation*
Statistical Editor, *American Journal of Transplantation*

**James B. Wetmore, M.D., M.S.**
Event Adjudication Committee, Canadian-Australasian Randomised Trial of Screening Kidney Transplant Recipients for Coronary Artery Disease (CARSK Trial)
United States Renal Data System, Deputy Director
Editorial Board, *Clinical Journal of the American Society of Nephrology*

**Jennifer F. Wu, D.O.**
Top Doctors Award, *Minnesota Monthly Magazine*

**PULMONARY, ALLERGY AND CRITICAL CARE**

**Scott F. Davies, M.D.**
Top Doctors Award, *Mpls.St.Paul Magazine*

**Kenneth W. Dodd, M.D.**
Institutional Award for Research and Academics, Advocate Christ Medical Center

**Joshua Dorn, M.D.**
Top Doctors Award, *Minnesota Monthly Magazine*

**Heidi L. Erickson, M.D.**
Top Doctors Award, *Minnesota Monthly Magazine*

**Robert Kempainen, M.D.**
Top Doctors Award, *Minnesota Monthly Magazine*
Top Doctors Award, *Mpls.St.Paul Magazine*

**James W. Leatherman, M.D.**
Top Doctors Award, *Minnesota Monthly Magazine*
Top Doctors Award, *Mpls.St.Paul Magazine*

**Michele M. LeClaire, M.D.**
Top Doctors Award, *Minnesota Monthly Magazine*
Top Doctors Award, *Mpls.St.Paul Magazine*

**William A. Marinelli, M.D.**
Top Doctors Award, *Minnesota Monthly Magazine*
Top Doctors Award, *Mpls.St.Paul Magazine*

**Matthew E. Prekker, M.D., M.P.H.**
Co-Founder and Member, Organizing Committee, Twin Cities ECMO Consortium
Education Committee, American Thoracic Society
Top Doctors Award, *Minnesota Monthly Magazine*
Section Editor, Critical Care, *Western Journal of Emergency Medicine*

**Robert S. Shapiro, M.D.**
Top Doctors Award, *Minnesota Monthly Magazine*
Top Doctors Award, *Mpls.St.Paul Magazine*

**Mark D. Sprenkle, M.D.**
Top Doctors Award, *Minnesota Monthly Magazine*
Top Doctors Award, *Mpls.St.Paul Magazine*

**John B. Sweet, M.D.**
Top Doctors Award, *Minnesota Monthly Magazine*
2021 Honors and Recognition of Faculty

RHEUMATOLOGY

Rawad Nasr, M.D.
Board of Directors, Minnesota Chapter, Arthritis Foundation
Top Doctors Award, Minnesota Monthly Magazine

Linh Ngo, D.O.
Top Doctors Award, Minnesota Monthly Magazine

Peter A. Schlesinger, M.D.
Top Doctors Award, Mpls.St.Paul Magazine

Zaki Abou Zahr, M.D.
Top Doctors: Rising Star, Mpls.St.Paul Magazine

MEDICAL EDUCATION PROGRAM

Anne L. Becker, M.D.
See Hospital Medicine

Samuel T. Ives, M.D.
See General Internal Medicine

Michael J. Lawson, M.D.
See Hospital Medicine

Rawad Nasr, M.D.
See Rheumatology

Jessica L. Oswald, D.O.
See Infectious Diseases

Rosemary A. Quirk, M.D., D.T.M.H.
See Office of the Chair

Charles P. Reznikoff, M.D.
See Addiction Medicine

Brian Yablon, M.D.
See Hospital Medicine
Advanced Practice Providers
Advanced Practice Providers 2021

**Addiction Medicine**
Brenda R. Bauch, N.P.
Catherine C. Earl-Torniainen, P.A.
Amy L. Skroch, N.P.

**Cardiology**
Vivian M. Igwacho, N.P.
Jill Jordan, P.A.
Michael N. Konstantinides, P.A.
Melissa M. LaBrosse, P.A.
Kay L. Tyberg, N.P.

**Endocrinology, Metabolism, and Diabetes**
Megan McGovern, N.P.
Cathy O’Brien, N.P.

**Gastroenterology**
Brittany Bjornstad, P.A.*
Jesse Powell, P.A.
Chelsea R. Ruda, P.A.
Sydney Ungar, P.A.

**General Internal Medicine**
Bethany Allen, N.P.
Kelsie Byrd, N.P.
Sareedo A. Hashi, N.P.
Kathryn Hoffman, N.P.
Brian H. Imdieke, N.P.
Kaylin Kolb, N.P.
Sarah J. Lecan, P.A.
Ashley Lundberg, N.P.
Emily J. Mercil, N.P.
Judy Nelson, N.P.*
Debora Nugent, N.P.
Samuel Obeng-Amoako, N.P.
Xin Piao, N.P.
Lindsey L. Pogemiller, N.P.
Elspeth K. Ronnander, N.P.
Lewis Simpler, N.P.
Gay M. Varecka, N.P.
Nicole M. Weaver, N.P.
Elsie Woodward, N.P.
Padla Yang, N.P.

**Geriatric and Palliative Medicine**
Michelle Aldrich-Goldstein, N.P.
Koleena J. Harrison, N.P.
Kathleen S. Holets, N.P.
Sheila A. Howes, N.P.
Felicia C. Ikebude, N.P.
Gregory J. Leierwood, N.P.
Sharon J. Momanyi, N.P.
Edward Newton, N.P.
James Orton, P.A.
Elizabeth Purdy, N.P.
Maria I. Santos, N.P.
Comfort T. Seibure, N.P.
Shakilah M. Shalita, N.P.

**Hematology/Medical Oncology**
Louann Bosmans, N.P.
Jennifer A. Drazkowski, N.P.*
Mary E. Johnston, N.P.
Mary Katharine Johnson, N.P.
Syndal Ormtan, N.P.
Anne Remington, N.P.

**Hospital Medicine**
Erica DeVries, P.A.
Bray E. Johnson, N.P.
Haley L. Johnson, P.A.
Erica Monroe, P.A.*
Michelle L. Oeding, P.A.
Casey L. Stessman, P.A.
Joseph Strangfeld, P.A.

**Infectious Diseases**
Brian Goodroad, N.P.
Kristin M. Grage, N.P.
Kathleen M. Kuempel, N.P.

**Integrative Health and Wellness**
Benjamin E. Backus, D.C.
Ulrich F. Beyendorff, LAc
Jessica Brown, LAc
Jack P. Carver, LAc
Angela B. Clifford, LAc
Robert Crane, LAc
Natalie M. Giacomini, D.C.
Heidi Kimmer, LAc
Lindsay Peticano, D.C.
Richard Printon, D.C.
John H. Sampson, D.C.
Jamie Schafer, LAc
Tara Schug, D.C.
Jess Siers, LAc
Ghazala P. Usman, D.C.
Nicole Zaret, LAc

**Nephrology**
Rougui Bah, N.P.
Rachel A. Sumo, N.P.

**Pulmonary, Allergy and Critical Care**
Lisa R. Ocker, N.P.*
Elizabeth Roth, N.P.

**Rheumatology**
Corinna Werner, N.P.*

*Left Division in 2021.*
Clinical Pharmacology Division

The Clinical Pharmacology Division includes six principal investigators; Mark LeSage, Ph.D. (Director), Andrew Busch, Ph.D. (Clinical Liaison), Andrew Harris, Ph.D., Sandra Japuntich, Ph.D., Paul Pentel, M.D., and John Smethells, Ph.D.; along with 13 staff and trainees. The division’s research is broadly focused on the development, delivery, efficacy, and implementation of pharmacological and behavioral interventions for drug addiction and other health-related behaviors. A common interest of all investigators is the etiology and treatment of tobacco addiction. Other areas of interest include individual differences in vulnerability to and treatment of opioid addiction, the comorbidity of drug addiction and psychiatric disorders, and the intersection of mental health, physical health, and other health behaviors. The Division has national and international collaborations with numerous investigators within and outside Hennepin Healthcare in fields that span medicinal chemistry, in vitro pharmacology and neuroscience, in vivo pharmacology and behavior, human laboratory studies, clinical trials, and epidemiology.

Our faculty grew this year with the promotion of Dr. Smethells to an Investigator 1 position at Hennepin Healthcare Research Institute (HHRI). Dr. Smethells was formerly a postdoctoral scientist working in the LeSage/Harris Lab and is forging an independent research program with receipt of his first R01 grant from NIH to study the pharmacology and behavioral effects of compounds in electronic cigarettes.

Over the past year, the preclinical research program continued its NIH/FDA-funded regulatory research to inform tobacco control policies being considered by the Food and Drug Administration (FDA) Center for Tobacco Products.

Tobacco use remains the leading preventable cause of death and disease world-wide. In the United States, nearly 40 million adults still smoke cigarettes, and over 3 million adolescents use at least one tobacco product, including e-cigarettes. With the passage of the Family Smoking Prevention and Tobacco Control Act in 2009, the FDA was given the authority to regulate tobacco products for the protection of public health.

One policy currently being considered is reducing the nicotine content in cigarettes to make them less addictive. Preclinical studies in our division have been characterizing individual differences in the lowest (i.e., threshold) nicotine dose that can engender and maintain nicotine self-administration in adolescent models of comorbid depression or Attention Deficit
Hyperactivity Disorder (ADHD). Studies have shown that the threshold reinforcing nicotine dose in these models is similar to control groups without these comorbidities. These findings suggest that a nicotine standard for tobacco products based on research in the general population may also be effective in reducing tobacco use in vulnerable subpopulations like those with depression or ADHD.

In addition to nicotine, the FDA is concerned about other Harmful or Potentially Harmful Constituents (HPHCs) that may contribute to the addictiveness or toxicity of tobacco products. Other NIH/FDA-funded preclinical research in the Division is showing that non-nicotine constituents may contribute to the addictiveness of combusted tobacco products (e.g., cigarettes) and non-combusted products like electronic cigarettes. For example, one notable constituent, beta-nicotyrine, is an abundant minor alkaloid in electronic cigarettes. Studies under a new R01 grant funded in 2021 (Dr. Smethells, PI) suggests that beta-nicotyrine reduces nicotine metabolism (i.e., slows nicotine elimination from the body), activates the same receptors in the brain that are responsible for the addictiveness of nicotine, and increases sensitivity to the subjective effects of nicotine. These findings suggest that beta-nicotyrine could contribute significantly to the addictiveness of electronic cigarettes through one or more these mechanisms. As such, addition of this constituent to the FDA’s list of HPHCs should be considered.

Another major focus of the preclinical research division is on individual differences in vulnerability to opioid addiction. The opioid epidemic is a public health crisis that led to over 80,000 overdose deaths in the U.S.A in 2021. However, while many people experiment with opioids, only some of these individuals become addicted.
In collaboration with investigators at the University of Minnesota, Arizona State University, and the Icahn School of Medicine at Mt. Sinai, the preclinical research group is part of a U01 consortium examining genetic factors contributing to individual differences in vulnerability to different stages of opioid addiction (for example, acquisition, relapse). The results of this research may help develop more effective preventions and treatments for opioid addiction that are tailored to the individual.

Preclinical research on the development of vaccines to reduce opioid addiction and overdose continued in 2021. Anti-opioid vaccines activate the immune system to produce antibodies that bind to target opioids, sequester them in blood, and reduce their distribution to brain. As a result, the central nervous system effects of opioids that mediate their addictive reinforcing effects are significantly reduced.

Over the years, studies in our Division have shown that vaccines against oxycodone, heroin, and fentanyl can significantly reduce the reinforcing effects of those drugs. This work supported an ongoing clinical trial of an oxycodone vaccine to help people quit using this prescription opioid. In 2021, we tested a next-generation fentanyl vaccine formulation that includes a novel Toll-like Receptor (TLR) agonist. This compound acts as an adjuvant to boost the immune response to the vaccine. We found that, in addition to boosting immunogenicity, this formulation significantly enhanced efficacy of the vaccine at reducing self-administration of fentanyl. These findings, in addition to studies by collaborators at the Universities of Minnesota and Montana, suggest that this vaccine could help reduce fentanyl addiction and overdose. This work is supporting the submission of an Investigational New Drug (IND) application to begin Phase 1 clinical trials with this vaccine.
For the clinical research program, the past year has been one of growth and resilience. After adapting to the COVID-19 pandemic, clinical research hit its stride with hybrid work for staff and remote data collection. Over the past year, the lab staff has expanded and now includes four research assistants/coordinators, two counselors, and a project manager. While many research teams across the country have struggled with staffing, this team has stayed strong and found new ways to connect including Slack (the messaging app), weekly lab meetings, professional development meetings with all staff, and lab social events. Ongoing grants and in-process grant submissions have fostered partnerships with new collaborators.

With ongoing and new grants from NIH, funding for clinical research in our Division was strong in 2021. Dr. Japuntich’s work included several projects focused on increasing access to smoking cessation treatment and cancer screening in healthcare settings (including mental health clinics, dental clinics, primary care, and inpatient hospital floors).

For example, Free Samples for Health (FreSH) is a study conducted in the National Dental Practice Based Research Network. The primary aim of FreSH is to test whether providing free samples of nicotine replacement therapy during routine dental care will produce long term abstinence from cigarettes, quit attempts, or nicotine replacement therapy use compared to those who receive another gift unrelated to smoking cessation. The Proactive Outreach for Smoking Treatment (POST) is an implementation strategy development study. The goal of the study is to develop and test the feasibility, acceptability, and

Preclinical Research Staff, above left (left to right): Sarah Wilde, Peter Muelken, Sam Howard. Above right, Sam Howard analyzing data.
preliminary effectiveness of implementing proactive outreach for smoking cessation and the 5 As for tobacco cessation (Ask about tobacco use, Advise to quit, Assess interest in quitting, Assist with cessation, and Arrange for follow-up) in community mental health centers. The Access to Better Cancer Screening (ABCS) study assessed the availability and uptake of lung cancer screening with low dose CT across two healthcare systems (Hennepin Healthcare and Lifespan). The study is surveying and interviewing patients and providers in Minnesota and Rhode Island to determine rates of screening, barriers and facilitators of screening, real world experiences with screening, and whether there are disparities in screening by race.

Dr. Japuntich is also particularly interested in promoting health equity through identifying and treating tobacco use and tobacco related disease among vulnerable populations. The Smoking Cessation Outreach for Research Equity (SCORE) project is part of the center C2DREAM (Chronic Disease Reduction and Equity Promotion Across Minnesota) aimed at mitigating the effect of racism on cardiovascular disease. The study tests the effect of adding care coordination for tobacco cessation treatment to usual care for Black Indigenous People of Color (BIPOC) patients who smoke cigarettes. This study is enrolling 2000 BIPOC patients across two healthcare systems: Hennepin Healthcare and Mayo Clinic Health System. The primary outcome is long term abstinence from combustible tobacco products.

Dr. Busch’s current work includes 1) efforts to understand physical health disparities among those with mental illness, 2) developing interventions that target improvement in both mental and physical health, and 3) developing counseling interventions to improve physical health among our most underserved communities (e.g., individuals who are experiencing homelessness, incarceration, or are immigrants).

Two clinical trials are ongoing. The Post-Acute Cardiac Event Smoking (PACES) study is a randomized control trial that aims to help people who have just experienced a cardiac event to quit smoking and keep their mood up. The COMPARE study is a four site noninferiority trial of tele-delivered Hatha Yoga vs. tele-delivered evidence-based psychotherapy (Behavioral Activation) for depression. Dr. Busch is leading the Minnesota recruitment site and the development and implementation of the Behavioral Activation treatment. In light of the significance of Dr. Busch’s work, he received the 2021 Department of Medicine Research Excellence Award.

Moving forward, preclinical investigators are seeking funding to examine the adverse effects of maternal e-cigarette and opioid use on neurobehavioral development and its genomic mechanisms in offspring, will continue to isolate the role that non-nicotine constituents play in the addictiveness of tobacco products, and will begin development of next-generation vaccines to treat heroin addiction. Clinical investigators continue seeking funding to test behavioral treatment and intervention strategies at the intersection of mental and physical health to promote health equity.

Mark G. LeSage, Ph.D.
Director, Clinical Pharmacology Division
## 2021 SUMMARY OF DEPARTMENT OF MEDICINE GRANTS AND CONTRACTS

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<th>DIVISION</th>
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## 2021 SUMMARY OF FUNDING SOURCES

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</tr>
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</table>
ADDICTION MEDICINE


Ford BR, Bart G, Graham B, Shearer RD, Winkelman TNA. Associations between polysubstance use patterns and receipt of medications for opioid use disorder among adults in treatment for opioid use disorder. J Addict Med. 2021;15(2):159-162. (Also listed in General Internal Medicine)


ADDITION MEDICINE (CONT.)


CARDIOLOGY


Buda KG, Urbach J, Rivard M, Knoper RC, Carlson MD, Kohl L. A pericardial pin: Embolization of an inferior vena cava filter strut presenting as acute pericarditis. *JACC: Case Reports.* 2021;3(2):304-308. (Also listed in Medicine Education)


CARDIOLOGY (CONT.)


Ogugua F, Ternacle J, Rodin H, Pibarot P, Shroff GR. Impact of arteriovenous fistula and non-physiological flow states in the evaluation of aortic stenosis among end-stage kidney disease patients on dialysis. Circulation. 2021;144 (Suppl_1), A9915. (Also listed in Medicine Education)


Book Chapter


Harris AC. Magnitude of open-field thigmotaxis during mecamylamine-precipitated nicotine withdrawal in rats is influenced by mecamylamine dose, duration of nicotine infusion, number of withdrawal episodes, and age. *Pharmacol Biochem Beh.* 2021;205:173185.


Swain Y, Waller NG, Gewirtz JC, Harris AC. Individual differences in different measures of opioid self-administration in rats are accounted for by a single latent variable. *Front Psychiatry.* 2021;12:712163.


Braimoh G, Matlock R. Fossa of Landzert herniation in a young woman presenting with chronic episodic abdominal pain. *Minn Med.* 2021;104:38. (Also listed in Medicine Education)


GENERAL INTERNAL MEDICINE


GENERAL INTERNAL MEDICINE (CONT.)


Shearer RD, Shippee ND, Winkelman TNA. Characterizing trends in methamphetamine-related health care use when there is no ICD code for “methamphetamine use disorder.” *J Subst Abuse Treat.* 2021;127:108369.


GERIATRIC AND PALLIATIVE MEDICINE


GERIATRIC AND PALLIATIVE MEDICINE (CONT.)


GERIATRIC AND PALLIATIVE MEDICINE (CONT.)

Weng XR, Nakdali R, Almoosawi B, Al Saeed M, 


HEMATOLOGY/MEDICAL ONCOLOGY


HEMATOLOGY/MEDICAL ONCOLOGY (CONT.)


HOSPITAL MEDICINE


INFECTIOUS DISEASES


**INFECTIONOUS DISEASES (CONT.)**


**NEPHROLOGY**


Nephrology (cont.)


**Nephrology (Cont.)**


**Book Chapter**


**PULMONARY, ALLERGY AND CRITICAL CARE**


PULMONARY, ALLERGY AND CRITICAL CARE (CONT.)


PULMONARY, ALLERGY AND CRITICAL CARE (CONT.)


PULMONARY, ALLERGY AND CRITICAL CARE (CONT.)


Buda KG, Urbach J, Rivard M, Knoper RC, Carlson MD, Kohl L. A pericardial pin: Embolization of an inferior vena cava filter strut presenting as acute pericarditis. JACC: Case Reports. 2021;3(2):304-308. (Also listed in Cardiology)


MEDICINE EDUCATION (CONT.)


Ogugua F, Ternacle J, Rodin H, Pibarot P, Shroff GR. Impact of arteriovenous fistula and non-physical flow states in the evaluation of aortic stenosis among end-stage kidney disease patients on dialysis. *Circulation.* 2021;144 (Suppl_1), A9915. (Also listed in Cardiology)


Educational Activities

House Officers (Current & Departing)

Resident Awards

Fellows

Presentations
Medical Education Program

The 2021–2022 academic year was one of challenge and change for the Internal Medicine and Emergency Medicine-Internal Medicine residencies and Department of Medicine. It was also a year of extraordinary service to patients, families, and communities all across Minnesota.

During the fall and winter Omicron surge, residents doubled nighttime coverage in the ICU and provided extra cross-cover support on wards. The Department of Defense sent physicians, nurses, and respiratory therapists to Hennepin to help manage unprecedented volumes; residents worked shoulder-to-shoulder with these providers and alongside hospitalists and ICU faculty to manage the influx of high-acuity patients and critical illnesses. Resident contributions were tremendous during this very difficult time.

Subspecialists Dr. Charles Reznikoff (Addiction Medicine) and Dr. Jessica Oswald (Infectious Diseases) became Associate Program Directors for the Internal Medicine residency in 2022. Dr. Reznikoff is an American College of Physicians Laureate Awardee with decades of experience in addiction and inpatient medicine, public policy, political advocacy and medical education. Dr. Oswald did residency and Chief Residency at Cook County Hospital in Chicago and runs the Infectious Disease course for second-year medical students at the University of Minnesota. She is a popular teacher with expertise in curriculum development, education best practices, HIV and viral hepatitis. She is passionate about social justice and safety net health care and excited to work more closely with residents.

Diversity, equity, and inclusion remained a true north, with many examples.

A new partnership was created with the University of North Dakota’s Indians into Medicine (INMED) program to bring Native American medical students to Hennepin for rotations. The first three INMED rotators arrived in the spring of 2022 and had a wonderful experience. Department of Medicine hospitalists and general internists also began traveling to the Rosebud Reservation in South Dakota to provide inpatient and
outpatient care. Residents have been invited to join this growing pool of faculty to experience Rosebud’s clinical environment and cultural richness. Native Americans are profoundly underrepresented in internal medicine programs and fellowships even as Native communities suffer extreme health disparities; the hope is that building clinical and educational connections with tribes and Native medical students will improve these outcomes. Finally, the first annual Eid al-Fitr celebration was held in April for residents, faculty, and newly matched interns. Our learning community came together to share a meal and hear personal stories and wonderful memories about Eid al-Fitr from Muslim residents.

The Internal Medicine residency continued to champion preventative care and earned two more Minnesota Department of Health primary care expansion grants for incoming interns—Dr. Nahdiya Ali from Somalia and Dr. Joseph Akambase from Ghana.

Since 2017 the Internal Medicine program has earned nearly $3 million to train ten extra residents; graduates have entered outpatient practices all across Minnesota, including in rural communities. Planning of annual clinic immersion blocks passed from Dr. Rawad Nasr to internist Dr. Heather Baxter, with continued exceptional logistical coordination by program administrator Nina Setala. Research opportunities in outpatient medicine and healthcare delivery are also accelerating; the Health Homelessness and Criminal Justice Lab, Justice Community Opioid Innovation Network (JCOIN) and Diabetes Homelessness Medication Support project were created by Dr. Tyler Winkelman, Dr. Katherine Vickery and other General Internal Medicine faculty to bring unsolved healthcare challenges into a new public health and social determinants focus.

The Internal Medicine and Emergency Medicine-Internal Medicine graduating classes of 2022 were celebrated at a banquet in June. Thirteen graduates, including three Chief Residents, went on to fellowships in Cardiology, Preventive Cardiology, Critical Care, Pulmonary-Critical Care, Nephrology, Geriatric Medicine and Infectious Diseases. Two Emergency Medicine-Internal Medicine graduates took combined hospitalist/emergency medicine positions at Hennepin;
seven Internal Medicine graduates took jobs in hospital medicine and primary care in Minneapolis, Chicago, San Diego, Iowa, and rural Arizona. Over 50% of the 2022 graduating class published manuscripts or abstracts in training. Dr. Ka Bao Vang and Dr. Shrikar Rajagopal were co-honored with the Dr. Nick Briese Spirit of the Residency Award in recognition of their exceptional patient care, kindness, compassion and unfailing support of peers and colleagues.

Among the most joyful moments in 2022 was the arrival of the 2022-23 Internal Medicine and Emergency Medicine-Internal Medicine interns, 23 incredible physicians from all over the world who are full of energy, clinical know-how and passion for internal medicine and social justice. In the aftermath of the pandemic, with complex organizational and departmental staffing shortages and personnel changes, it was a gift to welcome these amazing and talented people into our community.

Rosemary Quirk, M.D., D.T.M.H.
Program Director, Internal Medicine

From left: Arianna Lofrano, M.D., Amber Lindsay, M.D., and Shrikar Rajagopal, M.D.
Chief Residents

Jessica L. Oswald, D.O.
Associate Program Director, Internal Medicine Residency

Charles P. Reznikoff, M.D.
Associate Program Director, Internal Medicine Residency

Brian Yablon, M.D.
Associate Program Director, Internal Medicine Residency
## HOUSE OFFICERS 2021–2022

### PGY I

<table>
<thead>
<tr>
<th>Name</th>
<th>University stumbling block</th>
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<tbody>
<tr>
<td>Momen Alsayed</td>
<td>University of Minnesota Medical School</td>
</tr>
<tr>
<td>Karly Boll</td>
<td>University of Minnesota Medical School</td>
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<td>William Dennehy</td>
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<td>Spencer Goble</td>
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<td>Kelly Hallowell</td>
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<td>Abubakar Hassan</td>
<td>Sheikh University of Science and Technology College of Medical Sciences</td>
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<td>Ahmad Khalaf</td>
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<td>Lizbeth Rondon Rueda</td>
<td>Escuela Autónoma de Ciencias Médicas de Centro América</td>
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<tr>
<td>Abdulsabur Sanni</td>
<td>University of Minnesota Medical School</td>
</tr>
<tr>
<td>Lucas Zellmer</td>
<td>University of Minnesota Medical School</td>
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## HOUSE OFFICERS 2021–2022

### PGY II

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Mohamed Artan</td>
<td>University of Minnesota Medical School</td>
</tr>
<tr>
<td>Katherine Blomquist</td>
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<tr>
<td>Peter Dock</td>
<td>A.T. Still Kirksville School of Osteopathic Medicine</td>
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<tr>
<td>Roberto Fu</td>
<td>Escuela Autónoma de Ciencias Médicas de Centro América</td>
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<tr>
<td>Jeffrey Hall</td>
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<tr>
<td>Abubakar Hassan</td>
<td>Sheikh University of Science and Technology College of Medical Sciences</td>
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<tr>
<td>Greta Kreider Carlson (EM/IM)</td>
<td>University of Colorado School of Medicine</td>
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<tr>
<td>Amelia Krug (EM/IM)</td>
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<tr>
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<td>Rachel Salz</td>
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<td>Benjamin Swart</td>
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<td>Gregory Thompson</td>
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<td>Elizabeth Wendt</td>
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### HOUSE OFFICERS 2021–2022

#### PGY III

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<tr>
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<tbody>
<tr>
<td>Mary Bernton</td>
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</tr>
<tr>
<td>Kevin Buda</td>
<td>University of New England College of Osteopathic Medicine</td>
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<tr>
<td>Lea Buda</td>
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<td>Monazza Chaudhry</td>
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<td>Constantine Chima</td>
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<tr>
<td>Zachary Davidson (EM/IM)</td>
<td>Icahn School of Medicine at Mount Sinai</td>
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<td>Adulrahman Gamam</td>
<td>University of Minnesota Medical School</td>
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<td>Yasmin Haji-Kusow</td>
<td>Almaarefa Medical College</td>
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<td>Lewis Katz University School of Medicine</td>
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<td>Arianna Lofrano</td>
<td>Des Moines University College of Osteopathic Medicine</td>
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<td>Muhammad Arslan Maan</td>
<td>Aga Khan Medical College</td>
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<tr>
<td>Michelle Nguyen (EM/IM)</td>
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<td>Gulf Medical University</td>
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<td>Shrikar Rajagopal</td>
<td>University of Minnesota Medical School</td>
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<tr>
<td>Carly Rosenberg</td>
<td>Ruth and Bruce Rappaport Faculty of Medicine, Technion Israel</td>
</tr>
<tr>
<td>Michael Smith</td>
<td>Frank H. Netter MD School of Medicine at Quinnipiac University</td>
</tr>
<tr>
<td>Ka Bao Vang</td>
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## HOUSE OFFICERS 2021–2022

### PGY IV

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<tr>
<td>Peter Bache-Wiig</td>
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<tr>
<td>Daniel Bernstein (EM/IM)</td>
<td>University of Minnesota Medical School</td>
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<tr>
<td>Max Fuller</td>
<td>University of South Dakota, Sanford School of Medicine</td>
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<tr>
<td>Rebecca Kummer</td>
<td>University of Minnesota Medical School</td>
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<tr>
<td>Elisabeth McHale (EM/IM)</td>
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### PGY V

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<tbody>
<tr>
<td>Rebecca Nahum (EM/IM)</td>
<td>University of Minnesota Medical School</td>
</tr>
<tr>
<td>Daniel Parsons-Moss (EM/IM)</td>
<td>University of Illinois College of Medicine</td>
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### RESIDENT AWARDS

#### Nicholas Briese Spirit of the Residency Award

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Shrikar Rajagopal</td>
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<td>Ka Bao Vang</td>
<td>University of Minnesota Medical School</td>
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#### Craig Garrett Excellence in the Practice of Primary Care Medicine Awards

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Acadia Pechauer</td>
<td>University of Minnesota Medical School</td>
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<tr>
<td>Ka Bao Vang</td>
<td>University of Minnesota Medical School</td>
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#### Excellence in the Practice of Primary Care Medicine Awards

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<tr>
<td>Zachary Davidson (EM/IM)</td>
<td>Icahn School of Medicine at Mount Sinai</td>
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<tr>
<td>Marissa Paulson</td>
<td>University of Minnesota Medical School</td>
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#### Morris Davidman Teaching Award

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<td>Daniel Parsons-Moss (EM/IM)</td>
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#### Resident Research Award

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<td>Kevin Buda</td>
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<tr>
<td>NAME</td>
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<tr>
<td>-----------------------------</td>
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</tr>
<tr>
<td>Mary Bernton</td>
<td>Hospitalist, Locum Tenans, Traveling</td>
</tr>
<tr>
<td>Kevin Buda</td>
<td>Cardiovascular Disease Fellowship, Hennepin Healthcare</td>
</tr>
<tr>
<td>Lea Buda</td>
<td>Geriatric Medicine Fellowship, Hennepin Healthcare</td>
</tr>
<tr>
<td>Monazza Chaudhry</td>
<td>Pulmonary/Critical Care Fellowship, University of Vermont</td>
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<tr>
<td>Constantine Chima</td>
<td>Nephrology Fellowship, Baylor College of Medicine</td>
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<td>Adulraham Gamam</td>
<td>Preventive Cardiology Fellowship, Abbott Northwestern</td>
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<td>Yasmin Haji-Kusow</td>
<td>Nephrology Fellowship, Hennepin Healthcare</td>
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<tr>
<td>Rachel Husmann</td>
<td>Infectious Diseases Fellowship, University of Minnesota</td>
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<tr>
<td>Seth LaPorte</td>
<td>Hospitalist, University of Minnesota</td>
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<tr>
<td>Amber Lindsay</td>
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<td>Arianna Lofrano</td>
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<tr>
<td>Muhammad Arslan Maan</td>
<td>Hospitalist, Unity Point Health/St. Luke’s, Cedar Rapids</td>
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<tr>
<td>Rebecca Nahum</td>
<td>Internal Medicine and Emergency Department, Hennepin Healthcare</td>
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<td>Fredrick Ogugua</td>
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<td>Jessica Padniewski</td>
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<td>Marissa Paulson</td>
<td>Med/Peds Residency, University of Minnesota</td>
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<tr>
<td>Acadia Pechauer</td>
<td>Primary Care, El Rio Health, Tucson</td>
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<tr>
<td>Shrikar Rajagopal</td>
<td>Chief Resident, Hennepin Healthcare</td>
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<tr>
<td>Carly Rosenberg</td>
<td>Hospitalist, Loretto Hospital and West Suburban Medical Center, Chicago</td>
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<tr>
<td>Michael Smith</td>
<td>Infectious Diseases Fellowship, Tufts University</td>
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<tr>
<td>Ka Bao Vang</td>
<td>Hospitalist, Trinity Hospital, Chicago</td>
</tr>
</tbody>
</table>
DEPARTING HOUSE OFFICERS 2021–2022

Pictured left to right: Drs. Arti Prasad (Chair of Medicine), Carly Rosenberg, Arianna Lofrano, Fredrick Ogugua, Rachel Husmann, Seth LaPorte, Jessica Padniewski, Michael Smith, Yasmin Haji-Kusow, Acadia Pechauer, Constantine Chima, Kevin Buda, Monazza Chaudhry, Amber Lindsay, Lea Buda, Ka Bao Vang, and Rosemary Quirk, (Program Director).
<table>
<thead>
<tr>
<th>SPECIALTY</th>
<th>NAME</th>
<th>MEDICAL SCHOOL</th>
<th>RESIDENCY</th>
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<tbody>
<tr>
<td><strong>Cardiovascular Medicine</strong></td>
<td>Tareq Al Saadi (F1)</td>
<td>University of Damascus</td>
<td>University of Illinois at Chicago/</td>
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<td></td>
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<td>Joseph Steffens (F1)</td>
<td>University of Washington</td>
<td>Hennepin Healthcare</td>
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<td></td>
<td>Maen Assali (F2)</td>
<td>Jordan University of Science</td>
<td>Kent Hospital/Brown University</td>
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<td>Ar-Ramtha, Jordan</td>
<td>Warwick, Rhode Island</td>
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<td>Joseph Jensen (F2)</td>
<td>University of Minnesota</td>
<td>Abbott Northwestern Hospital</td>
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<td></td>
<td>Jared Routh (F3)</td>
<td>Creighton University</td>
<td>University of Iowa</td>
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<td></td>
<td>Iulia Tulai (F3)</td>
<td>Universitatea de Medicina</td>
<td>Danbury Hospital</td>
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<td>Jonathan Urbach (F3)</td>
<td>Boston University</td>
<td>Beth Israel Deaconess Medical Center</td>
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<td>Danika Evans (F1)</td>
<td>Rocky Vista University College of</td>
<td>Hennepin Healthcare Emergency Medicine</td>
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<td>Sydney Hansen (F1)</td>
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<td>Chelsea Laber (F2)</td>
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<td>Kent Hospital/Brown University</td>
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<td>Saida Yassin (F1)</td>
<td>Dokuz Eylul University</td>
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<td>Interventional Cardiology</td>
<td>Ahmad Tarek Chami (F1)</td>
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<td>Case Western Reserve Cardiology Fellowship Cleveland, Ohio</td>
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<td>Madelyn Mahowald (F1)</td>
<td>Warren Alpert Medical School</td>
<td>Mayo Clinic Cardiology Fellowship Rochester, Minnesota</td>
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<td>Nephrology</td>
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<td>University of Khartoum</td>
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<td>Juliet Gatiba (F2)</td>
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<td>Loma Linda University Internal Medicine Loma Linda, California</td>
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<td>Samuel Katz (F2)</td>
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<tr>
<td>Sleep Medicine</td>
<td>Natalia Baker (F1)</td>
<td>Kharkov National Medical University</td>
<td>St Mary-Corwin Medical Center Family Medicine Pueblo, Colorado</td>
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<td>Rekha Kallamadi (F1)</td>
<td>Kurnool Medical College</td>
<td>University of North Dakota Internal Medicine Fargo, North Dakota</td>
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<td>Kelash Kumar (F1)</td>
<td>Liaquat University of Medical &amp; Health Sciences</td>
<td>St Joseph Mercy-Oakland Internal Medicine Pontiac, Michigan</td>
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2021–2022 Presentations

**AMERICAN COLLEGE OF CARDIOLOGY (ACC) 71ST ANNUAL SCIENTIFIC SESSION**
April 2-4, 2022, Washington, DC

Abel Hooker
Coronary Hassle

Philippe Nyembo
Rapidly Progressive Calciphylaxis in a Patient with End-Stage Kidney Disease with Mechanical Prosthetic Valves on Warfarin: An Anti-coagulation Dilemma

**AMERICAN COLLEGE OF PHYSICIANS (ACP) 2021 MINNESOTA CHAPTER MEETING**
October 29, 2021, Minneapolis, Minnesota

Momen Alsayed
I Broke my Heart in Connecticut; A Case of Lyme Carditis with High Degree AV Block

Kelly Hallowell
Hematuria as an Unusual Presentation of Bladder Paraganglioma

Abel Hooker
Prolonged QT: A Case of Cardiac Arrest in a Young Woman

Jack Inglis, Mary Bernton
The Sound of Heartbreak

Ahmad Khalaf
Presentation of Chest Pain with a Challenging Diagnosis

Mohammed Khalid
Hidden in Plain Sight: A Case of Amiodarone Pulmonary Toxicity (APT)

Stephanie Kuhlman
Severe Methemoglobinemia after Sodium Nitrite Ingestion

Marcella Kuijpers
Where it Leads, Bacteria will Follow: A Case of Lead-Associated Bacterial Endocarditis

Alesandra Mendoza
When Opportunity Arises: A Complicated Diagnosis of AIDS-Defining Illness

Nathan Nelson, Monazza Chaudhry
A Case Where the Type of Testing Makes the Difference for Legionella

Philippe Nyembo, Joseph Steffens
An Ignored Cause of Presyncope and Syncope: A Case of “Tri-Fascicular Block”

Jessica Padniewski
Nettling Nodules; A Case of Kaposi’s Sarcoma-Associated Immune Reconstitution Inflammatory Syndrome (KS-IRIS)

Marissa Paulson, Abdulsabur Sanni
Initial Concern for One in a Million Vaccine Side Effect leads to Diagnosis of Acute Promyelocytic Anemia

Sumar Quint
Hold Your P: Renal Phosphorous Wasting, a Rare Side Effect of IV Iron Infusion

Beau Rigstad
Chest Compressions During CPR as a Cause of Chylothorax

Ben Swart, Brooke McDonald
Hickam’s Purpura? Multiple Vasculitides Presenting in a 67-Year-Old Man

Elizabeth Wendt
Two Uncommon Etiologies of Hypercalcemia - Adrenal Insufficiency and Hemosiderosis

Lucas Zellmer
No Obstruction, Still a Problem: A Myocardial Infarction with Clean Coronary Arteries

EDUCATIONAL ACTIVITIES 73
ANNUAL PUBLIC HEALTH ASSOCIATION (APHA)
2021 ANNUAL MEETING & EXPO
October 21, 2021, Virtual

Lucas Zellmer
Lessons from the Field: One CHW Program’s Incorporation into Health, Social, and Community Systems

AMERICAN THORACIC SOCIETY MEETING 2022
May 16, 2022, San Francisco, California

Megan Conlon
Tracheal Intubation and Mechanical Ventilation for Critically Ill Patients with Salicylate Poisoning: A Case Series

Brooke McDonald
COVID-Related Mechanical Ventilation and other Management Strategies

NATIONAL LIPID ASSOCIATION MEETING
September 25, 2021, Orlando, Florida

Kevin Buda
Safety and Efficacy of PCSK9 Inhibitors in Homozygous Familial Hypercholesterolemia: A Systematic Review and Meta-Analysis

Safety and Efficacy of Bempedoic Acid in Statin-Intolerant Patients

WPHA-WALHDAB ANNUAL PUBLIC HEALTH CONFERENCE 2022
October 21, 2021, Virtual

Lucas Zellmer
Management of Type 2 Diabetes in a Free Clinic Population: Initial Findings of a Quality Improvement Intervention
The Alvin L. Schultz Education and Research Fund was established in 2001 for the purpose of enhancing the education and research activities within the Department of Medicine. The Alvin L. Schultz Education and Research Funds are used to: bring in well-known visiting professors for Medicine Grand Rounds and other special events including the Alvin L. Schultz Visiting Professorship and the Department of Medicine Distinguished Alumnus of the Year; support residents who present their research at regional and national scientific meetings; provide support for residents’ research projects; and provide funding to enable residents to have an off-campus experience either in the U.S. or at designated international sites.

Since 2009, the Alvin L. Schultz Education and Research Fund has not received corporation grants and has depended solely on donations from the Department of Medicine faculty and alumni members to sustain this fund.

To contribute to this fund, our organizational partner, the Hennepin Health Foundation (HHF), supports and oversees philanthropic activities on the HCMC campus. You can support the Alvin L. Schultz Education and Research Fund administered by the Hennepin Healthcare Research Institute (HHRI), by making a charitable donation through the HHF website donation portal at www.hcmc.org/hhf/, or submit a check to the HHRI Account #4987, Office of Development, 914 South 8th St, Minneapolis, Minnesota 55404.

HHRI is a 501(c)3 non-profit and your charitable gift is tax deductible as allowed by the IRS.
Alvin L. Schultz Education and Research Fund 2020

In academic year 2021-2022, the Alvin L. Schultz fund supported two internal medicine residents, Dr. Philippe Nyembo (registration only) and Dr. Abel Hooker, who presented posters and/or gave oral presentations at the American Heart Association and the American College of Cardiology meetings. In addition, the Alvin L. Schultz fund supported international travel for Dr. Daniel Parsons-Moss to travel as part of the Global Health Pathway. Thank you to everyone who made donations or continue to donate, making these educational opportunities possible. These experiences make it possible for our residents to continue to develop academically, making them competitive for fellowships and job opportunities. Your support is greatly appreciated.

THE FUND WILL SUPPORT THE FOLLOWING DEPARTMENT OF MEDICINE VISITING PROFESSORS:

29th Annual Alvin L. Schultz, M.D.
Visiting Professor in Medicine
THURSDAY
MARCH 18, 2021
Donald Warne,
M.D., M.P.H.
Director, Indians Into Medicine (INMED) & Public Health Programs
Associate Dean, Diversity, Equity and Inclusion
School of Medicine and Health Sciences
University of North Dakota
Grand Forks, North Dakota
Presentation:
"Unresolved Trauma and American Indian Health Equity"

Distinguished Resident Alumnus of the Year
THURSDAY
APRIL 15, 2021
Kevin Larsen,
M.D., F.A.C.P.
Senior Vice President Clinical Innovation and Translation
Optum Labs
Washington, DC
Presentation:
"The Role of Government and Large Corporations in the Move to Value Based Health Care"

30th Annual Alvin L. Schultz, M.D.
Visiting Professor in Medicine
THURSDAY
MARCH 24, 2022
Valerie Romero-Leggott,
M.D.
Vice President and Executive Diversity & Inclusion Officer
University of New Mexico
HSC Endowed Professorship for Equity in Health
Professor, Department of Family & Community Medicine
Executive Director
University of New Mexico Combined BA/MD Degree Program
University of New Mexico Health Sciences
Presentation:
"Building a Diverse Health Care Workforce"
Alvin L. Schultz Education and Research Fund 2021

Alvin L. Schultz, M.D. Visiting Professorship at HCMC was established in 1989 upon Dr. Alvin L. Schultz’s retirement as Chairman of the Department of Medicine to honor his devoted service to the Department for the purpose of enhancing the education and research activities within the Department of Medicine.

ALVIN L. SCHULTZ, M.D. VISITING PROFESSORS:
1989  R. Gordon Douglas, Jr., M.D.
1990  Alvan R. Feinstein, M.D.
1991  Allen C. Steere, M.D.
1992  John M. Eisenberg, M.D.
1993  Stephen C. Joseph, M.D.
1994  Jordan J. Cohen, M.D.
1995  Frank B. Cerra, M.D.
1996  David Satcher, M.D.
1997  Charles H. Hennekens, M.D.
1998  Elizabeth Barrett-Connor, M.D.
1999  William P. Castelli, M.D.
2000  Stephen Straus, M.D.
2001  Nicole Lurie, M.D., M.S.P.H.
2002  George A. Sarosi, M.D., M.A.C.P.
2003  Michael Osterholm, Ph.D., M.P.H.
2004  Christopher J.L. Murray, M.D.
2005  Christine K. Cassel, M.D., M.A.C.P.
2006  Jeffrey Glassroth, M.D., M.A.C.P.
2007  Deborah Prothrow-Stith, M.D.
2008  Lonnie R. Bristow, M.D., M.A.C.P.
2009  Jeffrey G. Wiese, M.D., F.A.C.P.
2010  Faith T. Fitzgerald, M.D., M.A.C.P.
2011  William T. Branch, Jr, M.D., M.A.C.P.
2012  Judith Bowen, M.D., F.A.C.P.
2013  Edward Ehlinger, M.D., M.S.P.H.
2015  David L. Batinelli, M.D.
2018  Sanjeev Arora, M.D., F.A.C.G., M.A.C.P.
2021  Donald Warne, M.D., M.P.H.
2022  Valerie Romero-Leggott, M.D.

Distinguished Resident Alumnus of the Year was inaugurated in 2007 to bring former HCMC Residents who are established in their medical/research practice back to the HCMC Department of Medicine to present current topics of their expertise.

DISTINGUISHED RESIDENT ALUMNUS OF THE YEAR:
2007  Rosemary A. Quirk, M.D., D.T.M.H.
2008  Rama K. Mallampalli, M.D.
2009  Kenneth McQuaid, M.D.
2010  Hernando González Quirós, M.D.
2011  Robert H. Lohr, M.D., F.A.C.P.
2012  Sue Ravencraft, M.D., F.A.C.P
2013  Karin Nelson, M.D.
2014  Heather Gantzer, M.D.
2016  David Van Dyke, M.D.
2017  Andrew Kamp, M.D.
2021  Kevin Larsen, M.D., F.A.C.P.

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