

# Infectious Diseases Division Newsletter

## **INSIDE THIS ISSUE**

- Awards and Honors
- Appointments and Transitions
- Grants
- Other News
- Newsroom Updates
- Divisional Publications
- Important Dates













Congratulations to I.D. Division "New York Super Doctors" 2024

### **Super Doctors**

- Marshall J. Glesby
- Roy M. Gulick
- Barry J. Hartman
- David Helfgott
- Jason S. Kendler
- Andy Miller
- Michael J. Satlin
- Matthew S. Simon
- Ole Vielemeyer

### **Rising Stars**

- Shashi Kapadia
- Rosy Priya Kodiyanplakkal
  - Ayana Morales
    - Kohta Saito





Congratulations to "Castle Connolly 2024, Infectious Diseases" top doctors. These awardees are recognized throughout the year, based on peer nominations and outstanding accomplishments and dedication to the field of medicine.

- Barry Brause
- Marshall Glesby
- Catherine Hart
- David Helfgott
- Michael Henry
- Henry Murray
- Thomas Nash
- Sorana Segal-Maurer
- Rosemary Soave
- Adam Stracher
- Ole Vielemeyer





Congratulations to **Alexander Stabell**, who was one of two 2024 IDSNY Abstract Winners.

The Barrier to HIV-1 Escape from Broadly neutralizing antibodies varies between different HIV-1 isolates

At WCM Commencement (May 16, 2024) the 4th Year Medical Student Awards in Infectious Diseases were awarded to:

The Jay Lawrence Award for Clinical Proficiency in Infectious Diseases: Nissiya Adjei

The Anthony Seth Werner, MD, Memorial Prize for Research in Infectious Diseases: Natalie Nguyen



Nissiya Adjei



**Natalie Nguyen** 







Congratulations to **Juana Disla**, Sr. Patient Coordinator, for being selected as a SUPER STAR Performers in the Department of Medicine's Results, Rewards and Recognition Program:

The Star Performer Program recognizes:
Service that is consistently exceptional,
Thoughtful, considerate treatment of others,
Actions that demonstrate extraordinary dedication and
Role models of excellence

Feel free to nominate an employee who exhibits STAR qualities here: (Link)





Congratulations to **Grace Maldarelli**, who successfully competed for a CTSC KL2 Scholar Award for the initial funding period starting on July 1, 2024.



Congratulations to **Joshua Rosenblatt**, who was accepted into the 2024-2025 Leadership in Academic Medicine Program (LAMP).



Congratulations to **Mirella Salvatore**, who was elected as Vice President of the Infectious Diseases Society of New York (IDSNY).





Congratulations to **Candace Alleyne**, who was awarded her Masters of Science in Clinical and Translational Investigation from Weill Cornell Medicine Graduate School in May 2024.



Congratulations to **Evan Cooper**, who was awarded his Masters of Science in Clinical & Translational Investigation from Weill Cornell Medicine Graduate School in May 2024.



Congratulations to **Anna Mertelsmann**, who was awarded her Masters of Science in Clinical Epidemiology and Health Care Services from Weill Cornell Medicine Graduate School in May 2024.



## **Appointments and Transitions**





Farewell and congratulations to **David Calfee**, who will be leaving WCM on 6/30/2024 and taking a position as Director of the Healthcare-Associated Infection Division of the Agency for Healthcare Research and Quality (AHRQ) (U.S. Dept. of Health and Human Services).

We will recognize all our departing faculty members and fellows at the end-of-year celebration (06/25/2024)!



## **Grants**



Congratulations to **Brad Jones**, who successfully competed for an NIH R01 Grant entitled: "Defining and then Maximizing the Footprint of CTL Selection on HIV Integration Site Landscapes to Optimize Cure Strategies" and received an NIH Merit Award.

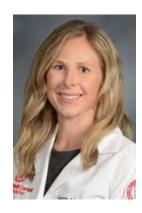




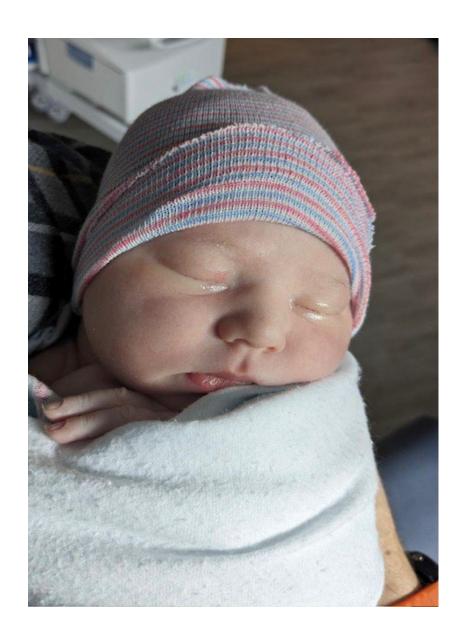
Congratulations to **Chris Brown** and **Kohta Saito**, who successfully competed for an NIH R21 Grant entitled: "Interrogating complex mycobacterial population structures using single-cell RNA sequencing".







Congratulations to **Carrie Johnston**, who welcomed a baby girl on 05/02/2024. Her name is Sloane Waverly Johnston.





Congratulations to **Shashi Kapadia** and his wife Czarina on their wedding. It was on May 19<sup>th</sup> at the Swan Club on the Harbor, in Roslyn, NY.







The following abstracts from **Harjot Singh** was selected for the Annual Weill Cornell Medicine Quality Improvement and Patient Safety Poster Symposium:

- "Improving Physician Assistants' and Nurses' Knowledge, Attitudes, and Practice of Diagnostic Stewardship and HAI Prevention" -Cynthia Cain1, PA-C, Daniella Dusevic, Karolina Walichnowska, Harjot K. Singh
- "Improving Peripartum Beta lactam Use Among Pregnant Patients with Reported Penicillin Allergy" -Ethan Wood, Sarah Weingarten, Debra D'Angelo, Inna Landres, Corrina Horrey-Oxford, Szilvia Nagy, Julia Cron, Steven Yen, Ally Stilwell, Harjot K Singh
- "Reducing Cytomegalovirus and Hepatitis Genotype Inappropriate testing with Diagnostic Stewardship" -Christian Darren Baguistan, Regina Wulff, Stacia Semple, Sonal Kumar, Lars Westblade, Jacob Rand, Neal Lindeman, Harjot K. Singh



Our deepest condolences to **Hank Murray** for the loss of his wife, Diana.



#### Michael Henry from HSS presented the poster below at the Annual WCM Quality Improvement & Patient Safety Poster Symposium



Improvement of Documentation of Medications for HSS In-patients Discharged with Home Intravenous Antibiotic Orders

Annual Weill Cornell Medicine Quality Improvement and Patient Safety Poster Symposium Michael Henry, MD, Kelly Moore, PharmD, Harjot K Singh, MD, Jennifer I. Lee, MD | May 22, 2024

#### Background

- Unlike all other medications that in-patients at HSS are discharged home on, there was no antibiotics.
- The process by which the ID division generated orders for home IV antibiotics was ot standardized; these orders were submitted through email, fax, or direct communication with the infusion company pharmacist, none of which was recorded in the EMR
- As a result, the documentation of home IV antibiotic treatment within the EMR was very
- Since our ID division treats hundreds of patients a year with home intravenous antibiotics, this lack of mechanism for order entry had a tremendous impact on the large number of the patients we care for. This impacted on accurate medication reconciliation, drug-drug interaction evaluations and accurate communication of treatment plans to other users of the EMR. This lack of documentation also impeded/complicated clinical research retrospective data collection.

#### SMART Aims

To achieve 50% compliance with the use of a treatment with home IV antibiotics for in-patients being discharged home from HSS.

#### Design Methods

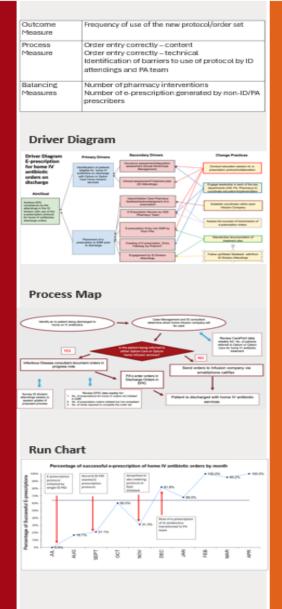
Intervention study targeting ID attendings and PA service at HSS. Interventions included:

- Collaboration with IT and HSS Collaboration with IT and HSS
  Pharmacy to develop protocol within
  EMR to e-prescribe home IV antibiotic
   Educating ID Attenting staff, Floor PA
  team and Case Management
  department on the new process
- Collaboration with the infusion company pharmacies (Option Care an Optum) to ensure orders were being transmitted accurately.

#### Study Population

Inclusion criteria: All HSS in-patients 18 and older who are referred to either Option Care or Optum home infusion pharmacies for home IV

Exclusion Criteria: patients being discharged to skilled nursing facilities; patients who will receive their home IV antibiotics treatment at a designated out-patient infusion center; Patients who have will be receiving their home IV ntibiotic services from a pharmacy other than Option Care or Optum



#### Results

- 192 patients during the study period were discharged home with IV antibiotic treatment.
- the e-prescription protocol.

  The number of patients being discharged using the e-prescription protocol increased during the study period, moving in the direction of a new steady state as shown by the signal for non-random change on the run
- attendings at the time were using the new protocol. In the month of November, the IV antibiotics were under the care of the 3<sup>rd</sup> ID Attending who was not yet using the new protocol. As a result, the overall all

#### Conclusions

- pharmacy, PA service, Case Management and IT was successful creating a new work electronic protocol to improve treatment and discharge planning documentation in the EMR and achieve the SMART aim. This allows for better documentation of the discharge orders and treatment plan for patients being
- ID MD team and PA team were able to adapt to new protocol with minimal disruption in workflow.

#### **Next Steps**

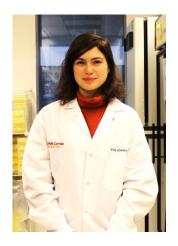
- Drug-drug interaction alerts.
  Accurate medicine reconciliation
- Periodically monitoring of on-going

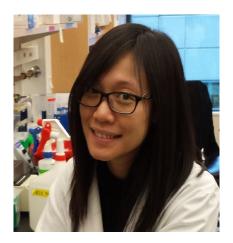






Year 3 - Annual REACH Meeting was held on May 16 - May 17.





The following were awarded:

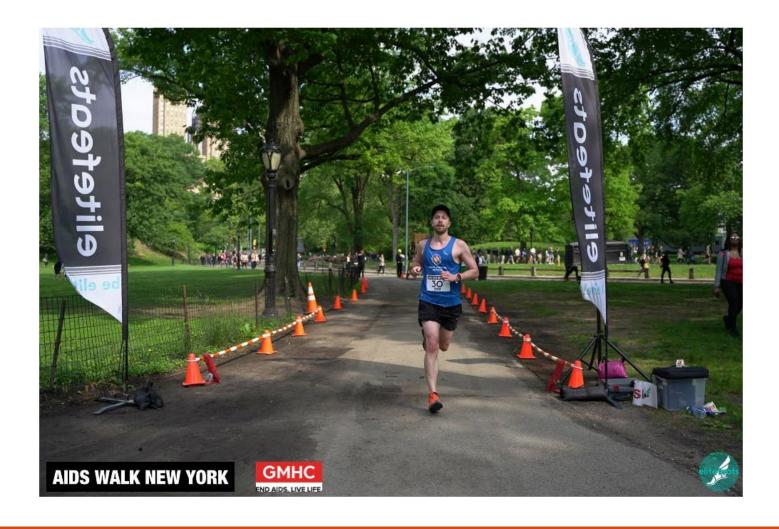
Young Investigator – Louise Leyre

Paper of the Year – Guin Lee





Congratulations to **Evan Cooper**, who participated at the annual New York AIDS Race, on May 19, 2024, and finished at 3rd place.



## **Divisional Publications**

- Anoushka Joglekar, Wen Hu, Bei Zhang, Oleksandr Narykov, Mark Diekhans, Jordan Marrocco, Jennifer Balacco, Lishomwa C. Ndhlovu, Teresa A. Milner, Olivier Fedrigo, Erich D. Jarvis, Gloria Sheynkman, Dmitry Korkin, M. Elizabeth Ross, & Hagen U. Tilgner. Single-cell long-read sequencing-based mapping reveals specialized splicing patterns in developing and adult mouse and human brain. Nat Neurosci (2024). <a href="https://doi.org/10.1038/s41593-024-01616-4">https://doi.org/10.1038/s41593-024-01616-4</a>.
- Axler E, Lu A, Darrell M, **Vielemeyer O**, Lipner SR. Surgical Site Infections Are Uncommon Following Nail Biopsies in a Single Center Case-Control Study of 502 Patients. J Am Acad Dermatol. 2024 May 14:S0190-9622(24)00749-7. doi: 10.1016/j.jaad.2024.05.017. Epub ahead of print. <a href="PMID: 38754627">PMID: 38754627</a>.
- ➤ Caplan AS, Todd GC, Zhu Y, Sikora M, Akoh CC, Jakus J, Lipner SR, Babbush K, Acker KP, Morales AE, Rolón RMM, Westblade LF, Fonseca M, Cline A, Gold JAW, Lockhart SR, Smith DJ, Chiller T, Greendyke WG, Manjari SR, Banavali NK, Chaturvedi S. Clinical Course, Antifungal Susceptibility, and Genomic Sequencing of Trichophyton indotineae. JAMA Dermatol. 2024 May 15:e241126. doi: 10.1001/jamadermatol.2024.1126. Epub ahead of print. PMID: 38748419; PMCID: PMC11097098.
- Kyle W. Kroll, Brady Hueber, Harikrishnan Balachandran, Ameera Afifi, Cordelia Manickam, Danielle Nettere, Justin Pollara, Andrew Hudson, Griffin Woolley, Lishomwa C. Ndhlovu, R. Keith Reeves, FcαRI (CD89) is upregulated on subsets of mucosal and circulating NK cells and regulates IgA-class specific signaling and functions, Mucosal Immunology, 2024,ISSN 1933-0219, https://doi.org/10.1016/j.mucimm.2024.04.003.



## **Divisional Publications**

- Thomas A. Premeaux, Scott Bowler, Courtney M. Friday, Carlee B. Moser, Martin Hoenigl, Michael M. Lederman, Alan L. Landay, Sara Gianella, Lishomwa C. Ndhlovu. Machine learning models based on fluid immunoproteins that predict non-AIDS adverse events in people with HIV, iScience, Volume 27, Issue 6, 2024, 109945, ISSN 2589-0042, <a href="https://doi.org/10.1016/j.isci.2024.109945">https://doi.org/10.1016/j.isci.2024.109945</a>.
- ➤ Webb GM, Pessoa CT, McCullen AJ, Hwang JM, Humkey MC, Thormin-Odum R, Kukula KA, Smedley J, Fischer M, Sciurba J, Bochart RM, Shriver-Munsch C, Ndhlovu LC, Sacha JB. O. Immune restoration by TIGIT blockade is insufficient to control chronic SIV infection. J Virol 0:e00273-24.https://doi.org/10.1128/jvi.00273-24
- ➤ Webb GM, Pessoa CT, McCullen AJ, Hwang JM, Humkey MC, Thormin-Odum R, Kukula KA, Smedley J, Fischer M, Sciurba J, Bochart RM, Shriver-Munsch C, Ndhlovu LC, Sacha JB. O. Immune restoration by TIGIT blockade is insufficient to control chronic SIV infection. J Virol 0:e00273-24.https://doi.org/10.1128/jvi.00273-24
- Weili Kong, Julie Frouard, Guorui Xie, Michael J Corley, Ekram Helmy, Gang Zhang, Roland Schwarzer, Mauricio Montano, Peter Sohn, Nadia R Roan, Lishomwa C Ndhlovu, Li Gan, Warner C Greene, Neuroinflammation generated by HIV-infected microglia promotes dysfunction and death of neurons in human brain organoids, PNAS Nexus, Volume 3, Issue 5, May 2024, pgae179, https://doi.org/10.1093/pnasnexus/pgae179





## **Important Dates**











15<sup>th</sup> Annual Infectious Disease Update 2024 Uris Auditorium 9AM to 1PM

(Register Link)

I.D. Faculty Meeting 12PM to 1PM (Zoom Link)

Juneteenth (WCM Holiday)

State of the I.D. Division Talk
Belfer 202-3
4PM – 5PM

End of Year Celebration 1300 York Courtyard 5PM – 8PM

Independence Day (WCM Holiday)