

Division of Infectious Disease Fellowship Training Program



A Please consider the environment before printing this PowerPoint

Main Campus and North Campus Research Center







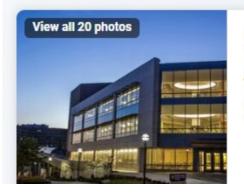


Michigan Medicine

- Large integrated health care system
 - 26,000 faculty, staff, students, trainees
 - All faculty are U of M employed
 - 3 hospitals (1000 beds)
- Multiple Outpatient Facilities throughout the Region
 - 40 outpatient locations
 - 2.1 million visits yearly



Michigan Medicine IM 7th Nationally (USNWR) and Hospital 8th Nationally (Newsweek)



University of Michigan--Ann Arbor

Ann Arbor, MI

#7 in Internal Medicine Programs (tie)
#17 in Best Medical Schools: Research (tie)
#20 in Best Medical Schools: Primary Care (tie)

Ann Arbor, MI



HONOR ROLL #11 in U.S. News Best Hospitals Honor Roll

Rank 🔺	Hospital	Score	City	US State
1	Mayo Clinic - Rochester	98.43%	Rochester	MN
2	Cleveland Clinic	92.36%	Cleveland	OH
3	Massachusetts General Hospital	89.05%	Boston	MA
4	The Johns Hopkins Hospital	84.59%	Baltimore	MD
5	Stanford Health Care - Stanford Hospital	79.92%	Stanford	CA
6	Ronald Reagan UCLA Medical Center	79.78%	Los Angeles	CA
7	The Mount Sinai Hospital	79.75%	New York	NY
8	University of Michigan Hospitals - Michigan Medicine	79.63%	Ann Arbor	MI
9	Brigham And Women's Hospital	79.34%	Boston	MA
10	New York-Presbyterian Hospital-Columbia and Cornell	78.81%	New York	NY
11	Duke University Hospital	78.62%	Durham	NC



Infectious Disease

VA Ann Arbor Medical Center

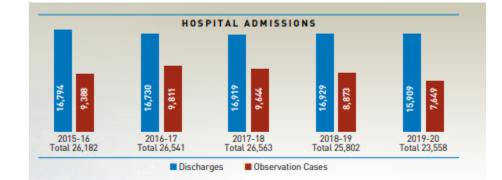


- 180,000 square foot clinical addition:1999
- New ambulatory clinic facilities and ICU's
- On-line order entry
- Computerized medical record system
- Electronic radiology system



Internal Medicine Statistics







Post-Graduate Education



- 4th largest post-graduate program in the U.S.
- Ranked in all 20 USNWR specialties
- 2/3 of incoming trainees from out of state



Division of Infectious Disease Faculty

- All full-time faculty
- **40** faculty members (research and clinical)
- Antimicrobial Stewardship program
- Hospital Epidemiology/Infection Prevention
- Transplant Infectious Disease Service
- Ryan White Funded HIV/AIDS program
- Multiple recently hired clinical faculty





Transplant Infectious Disease

University of Michigan Transplant Center



- 100 liver transplants
- 200 300 kidney transplants
- 25-30 heart transplants
- 30-35 lung transplants
- 200-250 hematopoietic stem cell transplants
- Dedicated transplant ID service
- 4 faculty
- Clinical research opportunities available
- All fellows spend a minimum of 2 months rotating on this service



Antimicrobial Stewardship Program



HMS Hospitals

- 43 hospitals
- Diverse types / settings • Large AMCs-Small rural hospitals
- Hospital Participants
- Physician Champion-hospitalist
- o Quality Lead
- o Data Abstractor
- Improving Care
- o Data / best practice sharing / facilitated implementation



JAMA Internal Medicine | Original Investigation | LESS IS MORE Risk Factors and Outcomes Associated With Treatment of Asymptomatic Bacteriuria in Hospitalized Patients

Lindsay A. Petty, MD; Valerie M. Vaughn, MD, MSc; Scott A. Flanders, MD; Anurag N. Malani, MD; Anna Conlon, PhD; Keith S. Kaye, MD, MPH; Rama Thyagarajan, MD; Danielle Osterholzer, MD; Daniel Nielsen, MS; Gregory A. Eschenauer, PharmD; Sarah Bloemers, MPH; Elizabeth McLaughlin, BSN, MS; Tejal N. Gandhi, MD



MDRO Service

2-month experience (divided)

Optimize antimicrobial selection

Weekly case conference

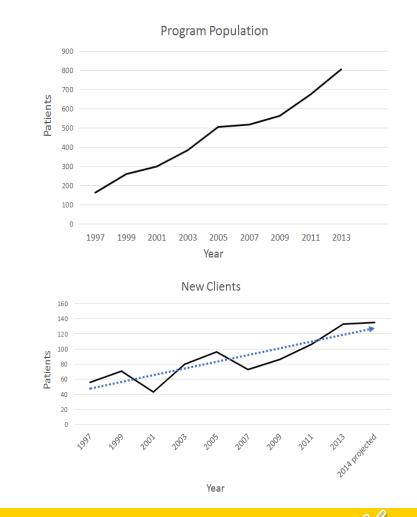
Closely integrated with AST pharmacists

Microskills on MIC interpretation and dosing



HIV/AIDS Treatment Program

- Ryan White Funded since 1997
- 900 active patients
 - 100 to 120 new patients each year
- Dedicated RN, multiple social workers
- 2 medical assistants
- Additional 150 HIV patients at VA





Antimicrobial Stewardship and HEIC

ANTIMICROBIA	L STEWARDSHIP
	RE
All fellows completing the training program will have for elements of interdisciplinary AS programs after gradua	
	he curriculum
IDSA Core Curriculum for Antimicrobial	Fellows complete between month 7-18
Stewardship	Mentored experience over 1-2 weeks
Attend at least once either	Date, time and link can be obtained from
VA quarterly Antimicrobial Stewardship Meeting	Dr. Gandhi (UH) or Dr. Patel (VA)
 UH weekly Antimicrobial Stewardship Meeting 	
MDRO rotation	MDRO in 10 video series
 8 weeks over two years Includes weekly case conference 	 Lab testing for antimicrobial susceptibility VRE -mechanism of resistance and treatment
	 MRSA -mechanism of resistance and treatment options for persistent bacteremia
	 PK/PD principal – AUC, AUC/MIC ratio, rationale for extended infusion
	 Stenotrophomonas: mechanism of resistance and treatment options
	 Acinetobacter: resistance mechanisms and treatment strategies
	 Pseudomonas- mechanisms of resistance, novel agents
	 Amp C beta-lactamase
	 CRE mechanisms OXA, KPC, MBL
	and how that changes preferred treatment
	 Antifungal resistance
Microbiology	 2-week rotation
Micro Rounds	 Time to be individually arranged
Didactic curriculum (2 year curriculum)	 Antimicrobial Resistance (gram +)
	 Antimicrobial Resistance (gram -)
	 Antimicrobial Resistance (yeast)
	 Overview of Stewardship
	 Disease Based Stewardship
	 Outpatient Stewardship
	 Board Review (AST)
ADVA	NCED

	SY/INFECTION PREVENTION
	ORE
	Il have foundational training in Hospital Epidemiology
and Infection Prevention allowing participation in the	
	the curriculum
SHEA course	 Has been cancelled due to COVID-19
	 Planned 2023 (Colorado)
	 On-line option (https://learningce.shea-
	online.org/content/primer-healthcare-
	epidemiology-infection-control-
	antimicrobial-stewardship-0#group-tabs
	node-course-default4)
Attend at least once the following:	
 Infection Prevention Workgroup 	 Contact Dr. Washer for links to meetings
 Topic specific Meeting 	
 CAUTI and/or CLASBI 	
 Infection Control Committee (Hospital 	
wide)	
Didactic curriculum (2 year curriculum)	 Respiratory viruses in Hospitalized
	Patients
	 Prevention of Ventilator-Associated
	Pneumonia
	 Control of Antimicrobial-Resistant
	Organisms
	 Outbreak Investigation
	 Prevention of Surgical Site Infections
	 Prevention of Central Line-Associated Infections
	 Management of Communicable Diseases
	 Prevention of Catheter-Associated
	Urinary Tract Infections
	 Gastrointestinal Infections in Hospitalize Patients
	 Occupational Health for the ID Physician
	Infection Control Board Review
ADV	ANCED
Fellows with an interest in pursuing a career focu	
prepare for a leadership role and scholarly work	
benefit from a third year of training.	
HEIC Project	 Mentor from HEIC faculty
SHEA spring conference	HEIC track
SPH Summer Session on Epidemiology	 Biostatistics and/or Epidemiology course
	 More advanced course work available for
	those with pre-requisites



HIV and Transplant ID

	/AIDS
	DRE
Purpose: Fellows completing the training program will	be able to competently care for HIV positive patients.
Elements of t	the curriculum
HIV on-line course	 https://www.hiv.uw.edu/
 Patient experience: Care for at least 10 HIV infected patients new to the University HATP beginning month 7-18 of fellowship VA ID clinic 	 One weekly NP HIV slot beginning month 7 of fellowship
Didactic curriculum (1 year curriculum)	 Antiretroviral Therapy Opportunistic Infections Adverse Reactions to HAART Malignancy and Other Complication Women's Health Primary Care of the HIV Infected Patient HIV and STDs HIV Board Review
Structure HIV Care in the US- Ryan White Program	Amy Jacobs
ADVA	ANCED
Fellows with an interest in pursuing a career focu prepare for a leadership role and scholarly work i	
Additional HATP clinic	 Thursday morning
HIV/AIDS research project	Various
Conferences	CROI

TRANSPL	ANT INFECTIOUS DISEASE
	CORE
Purpose: Fellows completing the training prog and SOT and understand strategies to prevent	ram will be able to recognize and treat complications of HSCT post-transplant infections.
Elem	ents of the curriculum
Attend at least once the following:	https://ast.digitellinc.com/ast/conferences/6/view How to screen and manage BK My donor is infected: Safe to accept? Vaccination in SOT patients Drug-drug interactions and immunosuppression PTLD Opportunistic Transplant Infections (free but registration required)
 Weekly transplant ID clinical meeting 	 Monday 12:30-1:00 PM F4133
Didactic curriculum (2 year curriculum)	 Donor Derived Infection, vaccination, pretrangslant evaluation, safe living after transplantation CMV infection Non-CMV viral infections Infections associated with LVADs Fungal infections after HSCT and SOT (epi and diagnosis) Fungal infections after HSCT and SOT (treatment and drug monitoring) Prevention of infection in cancer patients Infection risk associated with various forms of immunosuppression Respiratory viral infection after transplantation PTLD Transplant ID board review
	focused on Transplant ID will have additional training to y work in Transplant ID, interested and qualified fellows
AST Comprehensive Trainee Curriculum	 <u>https://ast.digitellinc.com/ast/courses</u> (program will cover cost, appendix sequences topics relevant to ID)

Monday transplant meeting

Conferences



Regular attendance

ATC

Innovative Educational Practices



Emily Ann Abdoler, MD, MAEd (Associate Program Director)

Microskills (MIC interpretation and dosing)

Reflective Practices



Infectious Disease Division Research

- Full spectrum of basic and clinical research opportunities available
- Collaboration with School of Public Health and other members of the University community
- Particular strength in antibiotic resistance intersection with antimicrobial stewardship





Divisional Research Committee

Date	Time	Attendees	Purpose
Year 1: July	Wednesday 9 AM	Committee	Explain structure
		First year fellows	and requirements of
			research rotation
Year 1: July-August	Thursday 8 AM	Tom Schmidt	Lecture focused on
		First year fellows	content of scientific
			proposal (one page)
Year 1: Oct-Nov	Thursday 8 AM	Committee	Review proposed
		First year fellows	mentor and project
			(topic area); fellows
			will provide one-
			page written plan
			at least one week in
			advance
Year 1: Jan-Feb	Thursday 8 AM	Committee	Review detailed
		Mentor	proposed project;
		First year fellows	discuss GR
			presentation
Year 2: July-August	Thursday 8 AM	Committee	Review progress
		First year fellows	
		Mentor	



ID Consult Service Structure

Year 1: July-December	UH ID General Consult Service (2 months)
	AAVA ID Consult Service (2 months)
	MDRO or Transplant ID Consult Service (2 months)
	Weekly Continuity clinic (UH)
Year 1&Year 2: January-December	Research Rotation
	Weekly Continuity (AAVA)
	Weekly Continuity clinic (UH)
Year 2: January -June	ID General Consult Service (2 months)
	AAVA ID Consult Service (2 months)
	MDRO or Transplant ID Consult Service (2 months)
	Weekly Continuity clinic (UH)

General Rotation Template (flexible)

UH= University Hospital; AAVA=Ann Arbor VA; MDRO=multidrug resistant organism



Outpatient Clinic

6 months	12 months	6 months
Tues AM (U)	Tues AM (U)* Fri AM (VA)	Tues AM (U)

- * may "atrophy" if primary research career is goal





Elective Rotations

- Microbiology
- Additional transplant ID
 - BMT service
 - Renal or liver transplant
- Hepatitis C
- Additional HIV
- School of Public Health courses

- SHEA hospital epidemiology course
- Travel medicine
- International rotations/research
- IDSA practice course



Summer Session in Epidemiology

SUMMER SESSION IN EPIDEMIOLOGY JULY 11-29, 2022 **IN PERSON OR ONLINE**

2022	2 Program Schedule		Week 1 July 11–15	Week 2 July 18–22	Week 3 July 25–2
Moming Ci	asses (8:30 am–12:00 pm, Monday–Friday)	Instructor			
EPID 701	Fundamentals of Biostatistics (3-week course)	Hui Jiang, PhD, University of Michigan	online	online	online
EPID 703	Applied Infectious Disease Modeling	Andrew Brouwer, PhD, University of Michigan		online	
EPID 716	Clinical Epidemiology and Evidenced-Based Research	Mitchell Levine, MD, MSc, FACP, FRCPC, McMaster University	in person*		
EPID 717	Design and Conduct of Clinical Trials	Stephen Farish, BSc(Hons), MEd, DEd, University of Melbourne		in person*	
EPID 718	Analysis of Clinical Trials	Stephen Farish, BSc(Hons), MEd, DEd, University of Melbourne			in person
EPID 720	Applied Mediation Analysis	Linda Valeri, PhD, Columbia University			online
EPID 730	Simulation Modeling of Tobacco Use, Health Effects and Policy Impacts (full-day course)	Rafael Meza, PhD, University of Michigan Jihyoun Jeon, PhD, MS, University of Michigan			online
EPID 766	Analysis of Longitudinal Data	Ananda Sen, PhD, University of Michigan		in person*	
EPID 777	Geographic Information Systems for Epidemiology	Shannon Brines, MEng, University of Michigan		online	
EPID 780	Applied Epidemiologic Analysis for Causal Inference	Catherine Lesko, PhD, Johns Hopkins University	online		
EPID 793	Introduction to Complex Systems Modeling for Public Health Research (full-day course)	Marisa Eisenberg, PhD, University of Michigan Michael Hayashi, PhD, University of Michigan	online		
Afternoon (Classes (1:30–5:00 pm, Monday–Friday)				
EPID 709	Fundamentals of Epidemiology (3-week course)	Alison Mondul, PhD, MSPH, University of Michigan	in person*	in person*	in persor
EPID 702	Analysis with Missing Data in Epidemiology	Lu Wang, PhD, University of Michigan	online		
EPID 706	Mixed Methods in Epidemiologic Research	Timothy Guetterman, PhD, University of Michigan			online
EPID 708	Machine Learning for Epidemiologic Analysis in the Era of Big Data	Alan Hubbard, PhD, University of California, Berkeley			in perso
EPID 719	Methods in Genetic and Epigenetic Epidemiology	Edward Ruiz-Narvaez, ScD, University of Michigan	in person*		
EPID 721	Applied Sensitivity Analyses in Epidemiology	Onyebuchi Arah, MD, MSc, DSc, MPH, PhD, University of California, LA			online
EPID 724	Leadership and Strategic Planning for Public Health	Laura Power, MD, MPH, University of Michigan			online
EPID 730	Simulation Modeling of Tobacco Use, Health Effects and Policy Impacts (full-day course)	Rafael Meza, PhD, University of Michigan Jihyoun Jeon, PhD, MS, University of Michigan			online
EPID 742	Generalized Linear Models	Kevin He, PhD, University of Michigan		in person*	
EPID 747	Successful Scientific Writing	John Iskander, MD, MPH, Centers for Disease Control and Prevention Paul Z. Siegel, MD, MPH, Centers for Diseasea Control and Prevention		in person*	
EPID 757	Systematic Reviews and Meta-Analysis	Joel Gagnier, PhD, ND, MSc, BA, University of Michigan	online		
EPID 778	Spatial Statistics for Epidemiologic Data	Veronica Berrocal, PhD, MSc, University of California, Irvine		in person*	
EPID 787	Introduction to Multilevel Analysis in Public Health	Jay Kaufman, PhD, McGill University		in person*	
	Complex Systems Modeling for Public Health Research (full-day course)	Marisa Eisenberg, PhD, University of Michigan	online		

https://sph.umich.edu/umsse/index.html/

Modeling Special pricing available (visit website for details)



*All in person courses will have an online-only registration option

ID Core Didactic Curriculum

2021 ID Fellows Summer Conference Schedule Thursday from 8:00am to 9:00am Room F4175 UH South

7/1/21	Quality Improvement Projects Rishi Chanderraj, M.D.
7/8/21	Common Adverse Reactions to Antibiotics and how to Manage Them
7/15/21	Lindsay Petty, M.D. Fellow Mental Health Awareness
	Daniel Kaul, M.D. Basic Wound Care
7/22/21	Shiwei Zhou, M.D.
7/29/21	Intravascular Catheter Management Shara Scheys, RN (UM Vascular Access Service Team)
8/5/21	Reflective Practice Emily Abdoler, M.D.
8/12/21	PK/PD Jerod Nagel, Pharm.D. (ID Pharmacy)
8/19/21	Vanco-AG Dosing and Monitoring Sam Aitken, Pharm.D. (ID Pharmacy) (Zoom)
8/26/21	Fundamentals of Fungus: What Every ID Fellow Needs to Know Katie Linder, M.D. and Marisa Miceli, M.D. (9-10am)

Thursday 8:00 – 9:00am Room F4175 UH South Carol Chenoweth, M.D. International Careers/Careers in Public Health Natasha Bagdasarian, M.D., M.P.H. (Chief Medical Executive MDHHS) 3/3/2022 Antimicrobial Resistance (gram +) Jerod Nagel, Pharm.D. (ID Pharmacy) 3/10/2022 Cancelled 3/11/2022 Outbreak Investigation Carol Chenoweth, M.D. 3/17/2022 Non-CMV viral infections: adeno, BK, JC, Parvo, EBV – limited-, HHV-6, HSV Kevin Gregg, M.D. 3/24/2022 Introduction to Public Health Laura Power, M.D., M.P.H. 4/7/2022 Fellow Journal Club Preeti Malani, M.D., and Zoe Raglow, M.D. 4/12/2022 Immunosuppression and Risk of Infection Kevin Gregg, M.D. 4/28/2022 Bob Fontana, M.D. 5/5/2022 Meningitis/Encephalitis Daniel Kaul, M.D.	ID Fel	lows Conference 2021-2022 Schedule
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4/14/2022 Preeti Malani, M.D., and Zoe Raglow, M.D. 4/21/2022 Immunosuppression and Risk of Infection Kevin Gregg, M.D. 4/28/2022 Hepatitis C Bob Fontana, M.D. 5/5/2022 Meningitis/Encephalitis Daniel Kaul, M.D.	4/7/2022	Laura Power, M.D., M.P.H.
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5/5/2022 Meningitis/Encephalitis Daniel Kaul, M.D.	4/28/2022	
5/5/2022 Daniel Kaul, M.D.		
	5/5/2022	
		Orthopedic Device Infections/Joint Infections
5/12/2022 Kathleen Linder, M.D.	5/12/2022	•
Parasitology I	514010000	
5/19/2022 Powel Kazanjian, M.D., Ph.D.	5/19/2022	
5/26/2022 Parasitology II	5/26/2022	
Powel Kazanjian, M.D., Ph.D.	0/20/2022	
Practice Management: Introduction to Practice		
6/2/2022 Settings	6/2/2022	
Anu Malani, M.D.		,
6/9/2022 Fellow Journal Club Preeti Malani, M.D. and Stephen Maurer, M.D.	6/9/2022	
ID Pathology		
6/16/2022 Laura Lamps, M.D.	6/16/2022	c ,
Donor derived infections, vaccination, pre-transplant		
6/23/2022 evaluation, safe living after transplantation	6/23/2022	
Daniel Kaul, M.D.		Daniel Kaul, M.D.



Case Management Conference

Biweekly Fellows Case Management Conference

Purpose: to explore commonly encountered management issues and allow fellows to discuss cases/management issues in a small group setting.

Selection of cases/topics:

- Any case where management uncertain is reasonable to consider
- Does not (and perhaps should not) be anything highly obscure
- Focused clinical question (typically regarding management) some examples might include:
 - o Should integrase inhibitors be avoided in patients at high risk for diabetes?
 - Are short courses of antibiotics appropriate for immunosuppressed patients with pneumonia?
 - How should this case of HIV be treated in a patient with some resistance and unable to swallow pills?
 - Are there any antibiotics that are not risk factors for developing C-dif in a patient with a recent history of C-dif?
- Presentations should not take more than 1-2 hours to prepare
 - Present case
 - o Frame the question and query colleagues
 - Provide the evidence/guidelines succinctly and your impression of the best management decision (this can be done with the help of the faculty content expert appropriate for that topic).
- Plan for 20-30 minutes



Preventive Medicine Residency

← → C https://sph.umich.edu/pmr/index.html



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Overview Academics Practicum Apply Faculty Residents Alumni News



Preventive Medicine Residency

PMR Home 👻	Purpose and Mission	•
Overview >	The University of Michigan School of Public Health houses one of the oldest Preventive Medicine Residency programs in the country, dating back to 1969.	Ventive
Academics >	The central mission of the School of Public Health's residency in General Preventive Medicine and Medicine Residency P	rogram
Practicum >	Public Health is to train highly-qualified physicians for careers in clinical preventive medicine and began public health.	
Apply 🕨	The mission is accomplished through the provision of rigorous academic course work resulting in a Master of Public Health dec	ree in one
Faculty	of the following core areas of public health:	
Residents ►	General Epidemiology Environmental Health Sciences	
Alumni Testimonials 🕨	Health Behavior and Health Education Health Management and Policy	
Alumni	This mission is also accomplished by the provision of broad practicum experiences with	
News >	concentrations in applied epidemiology, public health practice, and clinical preventive medicine, which are typically provided for populations with high levels of unmet health care needs.	



Post-Fellowship Positions

University based faculty

- University of Michigan
- Emory University
- University of Kentucky
- Medical College of Wisconsin
- University of Illinois Chicago
- Michigan State University
- OHSU
- University of Minnesota (TID)
- University of Arizona
- University of Pittsburgh

Hospital Employed

- St. John's Health system
- St. Joseph's Hospital
- Queen's Health Care (Honolulu)
- Cleveland Clinic
- Oakwood Hospital
- Henry Ford Health System

Private Practice

- Pittsburgh, PA
- Carolinas Hospital (Charlotte NC)
- Toledo, OH
- Petosky, MI
- Duluth, MN
- Seattle, WA
- Traverse City, MI

Additional training

- London School of Tropical Medicine
- Doctors Without Borders
- CDC EIS Officer
- Mayo Clinic Transplant ID fellowship
- UM preventive medicine residency



House Officer Benefits

Salary Schedule + lump sum

• HOIV \$74,205 (FY23) \$7420 lump sum

Meal Allowance

Medical/Dental/Disability Insurance

Maternity/Paternity leave

Parking

Exercise Facility

Travel Allowance



About Ann Arbor

Ann Arbor Named 'Best City to Live' in America

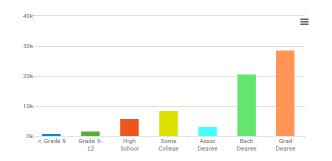
PRINT 🚍

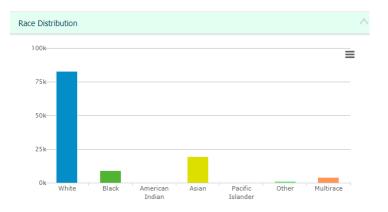
SHARE 😏 f 🖇 in



If you live in Ann Arbor, you already know this city is a great place to call home. But a new list confirms what you may have suspected: Ann Arbor is the best city to live in America.

Population: 119,280







Sleeping Bear Dunes





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