State of the Institute 2019

Ron Ackermann, MD, MPH
Professor of Medicine & Medical Social Sciences
Senior Associate Dean for Public Health
Director, Institute for Public Health and Medicine

Advancing collaborative research and education to improve the health and well-being of individuals and their communities
IPHAM
Institute for Public Health and Medicine

- What is IPHAM?
- Research by the numbers
- New people, centers, & activities
- Through the lens of our values
- What’s next?
What is IPHAM?

IPHAM is Northwestern University’s home for education and research to improve policy, practice, & health related outcomes for individuals, their communities, & the population
Strategic Goals

- **Maximize NU/IPHAM’s reputation** regionally, nationally, and globally as a leading destination for public health education & training and for innovative, rigorous, & impactful research.

- Harmonize, **align**, and enhance multiple sources of **institutional support** at NU/NM to amplify and advance public health, health services, & policy research.

- Identify & **support strategic areas of research growth** where the likelihood of impact is high.

- **Engage with stakeholders and communities** to help shape our work to have maximal impact on population health & health equity.

- Ensure that IPHAM’s research can be **designed and communicated in ways that make it usable** by communities, professionals, and policy decision makers.
IPHAM’s Organization

Support Services
- Finance
- Space
- HR / Staffing
- Membership
- Communications
- Research Admin
- Measures / Eval
- Shared Services
- Leadership Support
- Mentorship Support

IPHAM Managed Centers
- Center for Education
  - MPH
  - MSB
  - MSHSOR
  - MSQPS
  - HSIP
  - T/K Programs
- Community Health
- Buehler Policy
- Bioethics
- Engineering/Health
- Health Equity
- Health Information
- Health Services
- Metabolism

IPHAM Affiliated Centers
- Behavior
- Communication
- Primary Care
- Pat Centered Outcomes
- Population Health

IPHAM Catalyst Centers
- Food Allergy/Asthma
- Aging
By the Numbers: Total IPHAM Award Dollars by Year

Members comprise 26% of Feinberg’s PI’s, but bring in about 34% of research funding.

* 5-yr Compound Annual Growth Rate (CAGR) for all other remaining PI’s at Feinberg: 3.1%
New People, Centers, & Activities

8 new faculty
1 new leader for our research administration
6 new K awardees
2 new Centers
1 past Center launched as a new Institute!
New Faculty

Faraz Ahmad, MD, MS
CHiP

Jaline Gerardin, PhD
CPHS

Anne Stey, MD, MSc
HSOR

Peter Pruitt, MD, MS
HSOR

Pat Franklin, MD, MPH, MBA
CPCO

Greg Auffenberg, MD, MS
HSOR

Anna Chorniy, PhD
Buehler CHPE

Seema Shah, JD
CBMH

Institute for Public Health and Medicine
New Associate Director of Research Administration

• Seletta Nichols joined IPHAM as Associate Director of Research Administration

• At NU since 2003 as a Financial Administrator, Budget Analyst, Research Administrator, Manager of Research Administration, & Division Administrator

• Leads one of the largest and most complex research teams at Northwestern, serving both IPHAM and Preventive Medicine
  - Submitted a combined 285 proposals for $348 million in FY19
  - Manages $57 million in active awards

• Seletta has been a 2-time finalist for NU Employee of the Year!
New K Awardees

Jacky Kruser (HSOR)
A Systems Approach to Align ICU Care with Patient Treatment Goals

Ryan Merkow (HSOR)
Development of a Novel, Post-Surgical, Post-Discharge Complication Monitoring and Adaptive Intervention System Using Tailored Patient Reported Outcomes

Kristin Kan (CCH)
Integrating Patient-Reported Outcomes and Remote Patient Sensor Data in Childhood Asthma

Tony Yang (HSOR)
Tailored Adaptation of the AHRQ VTE QI Guide to Local Hospital Context

Faraz Ahmad (CHiP)
Implementing and testing heart failure patient-reported outcomes measures in a learning health system

Erin Paquette (CBMH)
Predictors of Enrollment of Racially and Ethnically Diverse Participants in Emergency and Critical Care Research
New Centers Launched in 2019

- **Ruchi Gupta** MD, MPH is leading the new *Center for Food Allergy and Asthma Research*
  - Creating an interdisciplinary and collaborative research core to make meaningful improvements in the health of children, adults and families living with allergic disease

- **Mike Wolf** MA, MPH, PhD, is leading the new *Center for Applied Health Research on Aging*
  - Dedicated to fostering collaborations across the Northwestern community and throughout Chicago to stimulate research leading to meaningful improvements in the way our healthcare system proactively engages and supports individuals, and their families, as they get older and face increasing health demands
Center for Global Health becomes a new Institute!

- Congratulations to Rob Murphy, MD, who is now leading the new Institute, in partnership with Dr. Bob Havey (GIM)
- Includes 5 centers focused on global health education, surgery, oncology, communicable diseases, & cardiovascular health (all directed by IPHAM members)
- Strong collaborations will continue between IPHAM & the Institute for Global Health, with overlap in research, education, & administration
Through the Lens of IPHAM’s Values

Diversity
Respect
Collaboration
Research & Teaching Excellence
Sharing Knowledge & Benefits
Impact
Health Equity
IPHAM’s Work is Guided by its Values

- Health Equity
- Diversity
- Respect
- Collaboration
- Impact
- Sharing Knowledge & Benefits
- Research & Teaching Excellence

**IPHAM Strategy & Priorities**
Diversity

We strive for diversity & inclusion in our workforce & our partnerships
IPHAM Center Leadership

Nammi Kandula  Darius Tandon  Lori Post  Kelly Michelson  Sanjay Mehrotra  Melissa Simon  Abel Kho  Ron Ackermann  Tamara Isakova
Ruchi Gupta  Mike Wolf  Neil Jordan  Bonnie Spring  Bruce Lambert  Steve Persell  Dave Cella  Phil Greenland
Alliance for Research in Chicagoland Communities
Since 2008, ARCC has been governed by a 25-person community-academic Steering Committee

www.ARCCresources.net
Support of our first CUE Fellow
Chicago United for Equity 2019 Fellowship

• Jen Brown, Director of the Alliance for Research in Chicagoland Communities (CCH)
• Vision to promote a research culture through policies & systems that involve community leadership as central and where research is designed to address racial & health inequities, rather than to simply document or perpetuate them
• Facilitated training & development sessions with the YWCA Equity Institute
• This work was also funded by a 2019 NU Linzer Diversity & Equity Grant
Respect

We value honesty, transparency, and the unique contributions made by all collaborators and partners.
Stakeholder Academic Resource Panels
Respecting the voice of community partners

• Group consultation with customized panels of stakeholders
• Facilitated by CCH staff so that stakeholders may dominate the conversation
• 19 panels have been completed (English & Spanish; kids & adults)
• Feedback has been used to enhance research proposals, recruitment, implementation, & dissemination
Principles of Engagement

• IPHAM’s Center for Community Health defined & adopted 5 “Principles of Engagement”
• Principles have been adopted by IPHAM & NUCATS
• Serve as a guide for all IPHAM members to build genuine, engaged relationships with community partners and stakeholders

https://www.feinberg.northwestern.edu/sites/cch/
Community & Stakeholder Compensation Guidelines

• Alliance for Research in Chicagoland Communities worked with national partners throughout the CTSA consortium to identify norms and practices relating to fair compensation of community partners & stakeholders who provide different forms of service to university-based researchers and educators.
• Adopted by NUCATS in 2017
• Followed when we offered support to community presenters who took part in the 2018 IPHAM Population Health Forum
• Found at www.ARCCResources.net
Collaboration

We regard collaboration among diverse people and organizations as essential for maximizing innovation and impact.
A Chicago Center of Excellence in Learning Health Systems Research Training (ACCELERAT)

The Learning Health System (LHS) aligns science, informatics, incentives, & culture to improve care quality by generating new knowledge that is immediately relevant in practice

- A highly collaborative, institutional K12 training grant award (AHRQ) led by Co-PI’s Abel Kho (CHiP) & David Cella (CPCO)
- Over 100 faculty and clinical leaders signed on to serve as mentors, teachers, health system navigators, or other resource faculty
- Supports faculty trainees to develop core learning health system research competencies & to assume careers as leaders in the use of applied, patient-centered research to advance health system quality and value
- 2 to 4 trainees will be trained annually
Chicago Area Patient-Centered Outcomes Research Network (CAPriCORN)

• **Renewed funding** in 2018 as 1 of 9 clinical research networks nationally funded by the People-Centered Research Foundation (PCORnet 2.0)

• Partners multiple Chicago area research institutions, clinicians, patients, & patient advocates who govern the research areas, activities, and policies for the network

• Administered from IPHAM’s Center for Health Information Partnerships

• PI: Abel Kho; site PI: Faraz Ahmad

• All partners utilize a common IRB known as the Chicago Area Institutional Review Board (CHAIRb), optimized for streamlining multi-site clinical trial approvals

• Data across participating sites are organized & shared using a common data format
NUFSM – NM Research Alignment Quarterly Meeting

• Convened by Karl Bilimoria (HSOR/SOQIC), the Vice President for Quality for Northwestern Memorial Health Care

• Meetings among clinical integration & quality improvement leads at Northwestern Medicine, along with leadership from IPHAM (Center for Health Services & Outcomes Research, Center for Health Information Partnerships, Center for Primary Care Innovation, & Center for Patient Centered Outcomes) and others

• Goal to communicate policy, system, and practice priorities of Northwestern Memorial Health Care in ways that enable NUFSM centers to design research to inform and address those priorities

• Dr. Bilimoria will present next week’s IPHAM Seminar on the topic of strategies for research alignment with the priorities of Northwestern Memorial Health Care
Co-author Collaborations

Co-author collaborations in all 6,376 documents published by 380 IPHAM members from 2016 – 2019 (Scopus). Circles represent authors and are sized by the number of published documents; Lines between the circles are sized by the number of co-author collaborations. Colors represent clusters of related authors.
Northwestern Chicago Community Engagement Coordination Council

- Commissioned by Dean Neilson
- To explore opportunities for better communication & possible coordination of community engagement activities among NU and clinical affiliates
- IPHAM, NUCATS, Feinberg Diversity & Inclusion, Medical Education, NU Governmental Affairs, other NU Schools, Northwestern Memorial Hospital, & Lurie Children’s Hospital

https://www.feinberg.northwestern.edu/sites/community-engagement/
Research & Teaching Excellence

We stand for exceptional & ethical teaching & science, and for methodologic rigor.
## Center for Education in Health Sciences (CEHS)

CEHS is the administrative home for research training programs available in IPHAM

<table>
<thead>
<tr>
<th>Program</th>
<th>Current Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master of Public Health</td>
<td>97</td>
</tr>
<tr>
<td>Master of Science in Biostatistics</td>
<td>9</td>
</tr>
<tr>
<td>Master of Science in Healthcare Quality &amp; Patient Safety (HQPS)</td>
<td>28</td>
</tr>
<tr>
<td>Master of Science in Health Services &amp; Outcomes Research (HSOR)</td>
<td>30</td>
</tr>
<tr>
<td>Health Sciences Integrated PhD Program</td>
<td>22</td>
</tr>
<tr>
<td>Integrated Post-doctoral Fellowship</td>
<td>18</td>
</tr>
<tr>
<td>Certificate and Non-Degree (all programs)</td>
<td>15</td>
</tr>
<tr>
<td><strong>Total Students/Trainees</strong></td>
<td><strong>219</strong></td>
</tr>
</tbody>
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Bioethics Education & Training

Administered by the Center for Bioethics & Medical Humanities

- 2-year Post-Doctoral & Faculty Training Programs in Bioethics in Clinical Medicine
  - Northwestern Clinical Bioethics Scholars Program (9 faculty trainees)
  - McGaw Clinical Bioethics Scholars Program (9 resident/fellow trainees)

- Master of Arts in Medical Humanities & Bioethics
  - Examines medicine and its ethical implications from the diverse perspectives of the humanities, including philosophy, history, literature, anthropology, and the law
Program in Public Health

- Continuously accredited by the Council on Education for Public Health since 2000
- Ranked 37 out of 177 accredited schools and programs
  - 5th among all programs not located in a school of public health
  - 4th among all programs administered by a medical school (Tufts; Davis; Penn)
Public Health Boot Camp: 2019 Cohort

• Partnership involving the Program in Public Health, CCH, AIDS Foundation of Chicago, & several others
• Annual 1-week training program for HIV/AIDS community-based service providers
• 2019 cohort included 13 trainees from across the Chicagoland area
• This is the 3rd cohort and the program has graduated 37 participants since it began at Northwestern
Sharing Knowledge & Benefits

We value the sharing of what we know & learn with all collaborators & stakeholders.
Inaugural Population Health Forum, December 2018

• Over 400 attendees
• Keynote speaker Sandro Galea (Dean at BU)
• 125 abstracts representing the collective work of IPHAM members & community partners
• Community engagement seminar featuring ARCC Steering Committee members
• Community presenters supported using fair compensation guidelines developed by CCH
• Caterer chosen from the Woods Fund Chicago Directory of Equity which promotes social, economic, & racial justice
Over 380 IPHAM members generated more than 6,376 publications, which were cited 53,806 times from 2016 – 2019 (Scopus). This map depicts the numbers of citing authors for IPHAM publications by their country affiliations. Darker colors indicate more citing author affiliations.
Impact

We are committed to having impact beyond academia, to the benefit of practice, policy, culture, community, & the health & well-being of all people & society.
Learning Health System Research

- PI: David Cella (Center for Patient Centered Outcomes)
- Multiple collaborators from NM, other IPHAM centers, and several FSM clinical departments
- Goal is to evaluate an approach to patient-centered care that leverages strengths in assessment of patient perceptions and symptom burden; practice transformation; and chronic illness care.
Standardized Sexual Orientation and Gender Identity Collection in Epic at Northwestern Medicine

By the Numbers

85
NM Interviewees

45
NM Patient Interviewees

8
Operating Units Represented

11
Best Practice Sources

4
Benchmarking Tools

When, how, and by whom should patients be asked about their sexual orientation and gender identity?

- Go-Live system-wide in March 2019
- Self-entry option in MyChart
- Staff and clinicians can enter information directly into Epic
- Information shows in the patient header

McCallister, Buzz Cnedemo
Legal Name: McCallister, Buzz Cne
Legal Sex: M
Gender ID: Male
Sex At Birth: Female
Pref Pronoun: He/Him
34 y.o., 12/25/1984
Examples of publications cited by policy documents


- January 2017 – paper cited in “National Center for Emerging and Zoonotic Infectious Diseases top 10 accomplishments” published by CDC.
- 2017 - Charles C. Shepard Science Awards Winner in Category - Assessment

**Screening for Obesity in Children and Adolescents: US Preventive Services Task Force Recommendation Statement. JAMA. 2017; 317(23):2417-26.**

- September 2018—paper cited in “Weight Loss to Prevent Obesity-Related Morbidity and Mortality in Adults: Behavioral Interventions” published by USPSTF.

**Effect of Endobronchial Coils vs Usual Care on Exercise Tolerance in Patients With Severe Emphysema. JAMA. 2016;315(20):2178-2189.**

- January 2018—paper cited in “Diagnostik, Prävention und Therapie der chronisch obstruktiven Lungenerkrankung (COPD)” published by The Association of the Scientific Medical Societies in Germany.
- May 2018—paper cited in “Diagnostik und Therapie von Spontanpneumothorax und postinterventionellem Pneumothorax” published by The Association of the Scientific Medical Societies in Germany.
Health Equity

We aspire to improve health for all people, eliminate disparities, & advance equity
Keep Your Heart Healthy

• Large-scale cardiovascular health promotion program that reached 48,862 community residents via 1,534 screening & educational events held in 27 Chicago community areas between 2013 to 2016
• 47% of screening participants were Black & 50% Hispanic
• FSM medical students were trained to provide >5,600 person-hours of healthy lifestyle coaching and linkages to healthcare & community resources using principles of cultural competence & motivational interviewing
• Collaborative funding has been provided by Northwestern Memorial Hospital and IPHAM to help sustain Keep Your Heart Healthy as a medical student-run organization at FSM
Northwestern University Minority Health and Health Disparities Research Training Program

• 5-year training grant from the National Institute on Minority Health and Health Disparities

• Provides health disparities research training experiences for 10 students each year who are at the undergraduate to post-doctoral levels and who identify as minority race/ethnicity or from another group under-represented in health sciences professions

* To apply now, visit: https://www.feinberg.northwestern.edu/sites/chet/education
What’s next?

A preview of the next year
IPHAM Population Health Forum 2019

- Second annual IPHAM Population Health Forum will be Monday, December 9, 2019, in Potocsnak Family Atrium of Simpson Querrey

- Keynote Speaker: Ana V. Diez Roux, MD, PhD, MPH; Dean, Dornsife School of Public Health at Drexel University

- A showcase of all the work happening in IPHAM including a seminar highlighting community engaged research, scientific poster session, community partners spotlight, and a keynote address

- Call for Abstracts due on November 15, 2019
Other Activities for FY20

- Director search for the Center for Health Services and Outcomes Research
- Internal search for a new director for the Center for Education in Health Sciences
- Leadership transition in the Center for Population Health Sciences
- 3-year strategic planning event in early 2020
- Center for Bioethics and Medical Humanities (together with the International Neuroethics Society): “Should We Trust Technology to Provide Mental Health Care?” will take place on Thursday October 17th from 4:30 – 7:00 pm
Thank you to the wonderful IPHAM staff who make all of this work possible.