

2022 Annual Report



**BETTER HEALTH FOR KENTUCKY
TOGETHER**



IHI IS DRIVING CHANGE

The Institute for Health Innovation (IHI) at NKU pioneers solutions to the health challenges facing Northern Kentucky. We drive change that directly addresses urgent unmet health needs.

LETTER FROM THE EXECUTIVE DIRECTOR

I am proud to share our 2022 Annual Report reflecting on our fourth year of the Institute for Health Innovation at Northern Kentucky University and everything we have done over the past twelve months, despite the challenges that COVID-19 brought.

We currently have \$10 million in active grants and contracts, which we are using to:

- Launch the Initiative for HealthCare Entrepreneurship and Innovation (IHEI),
- Help St. Elizabeth Healthcare to expand its school-based health telemedicine program to Pendleton, Owen, Carroll, Grant, and Gallatin County Schools,
- Reduce the morbidity and mortality of substance misuse by enhancing rural residents' access to prevention, treatment, and recovery support.
- Help Northern Kentucky address the economic challenges of rural counties, helping the region thrive in the post-COVID-19 environment.

We have expanded the Collaborative for Economic Engagement, supported eleven faculty-student interdisciplinary research collaborations on everything from caregiving needs research to the impact of COVID-19 on student wellbeing and sponsored a regional Idea Challenge for Growing the Healthcare Workforce.

We continue to grow our team. In addition to Carolyn, Marissa, Shanna, Doug, Rico, Yvonne, Donnie, Tammy, and Meg we also have now welcomed on board Dallas, Jude, Molly, Shirley, Peyton, Jarett, Lauren, Gary, Xiaoni, Clay, and Jia.

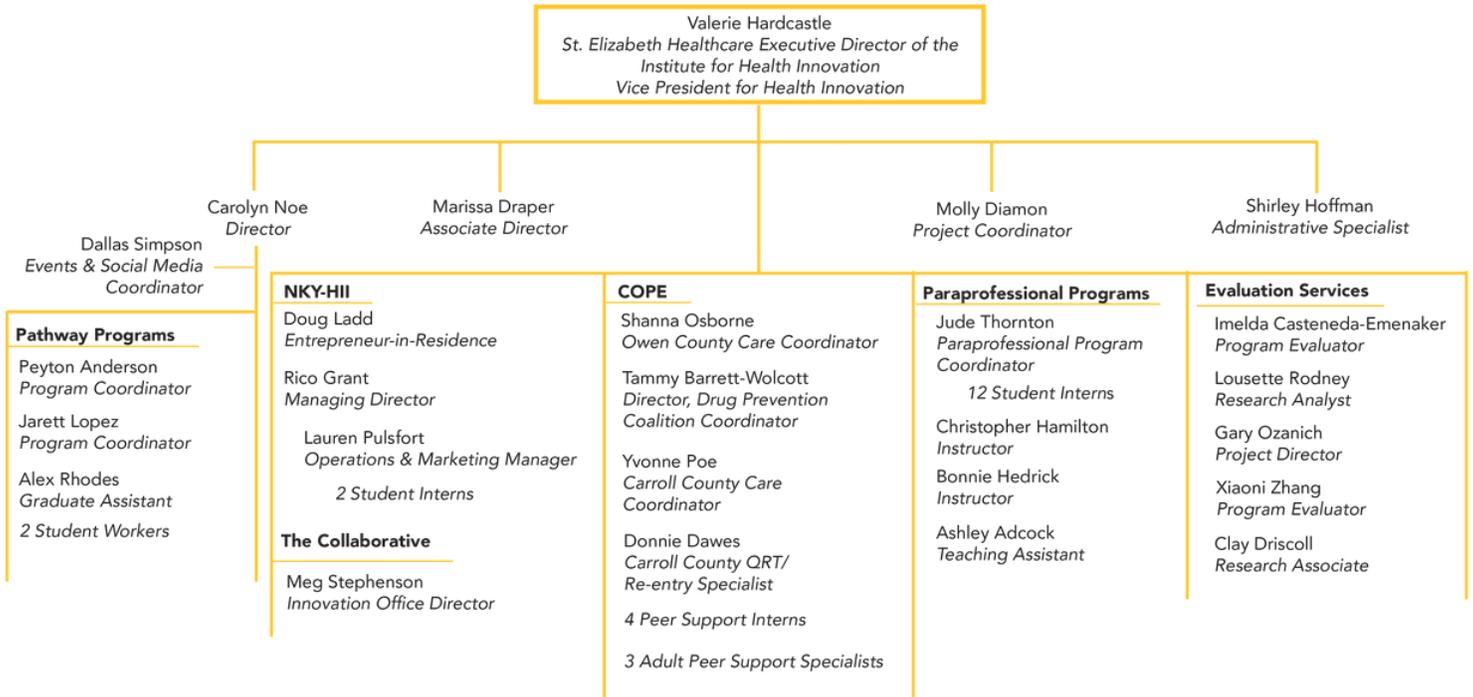
Stay tuned in the coming year for a new discovery kit program for K-12 classrooms, additional IHI Faculty Fellows, new programming around healthcare entrepreneurship, a new institute initiative in health equity, and new high-profile events—either in the Health Innovation Center or at our new location in Covington.

Finally, I wish to thank all of our many community partners and supporters. I know I speak for all of us at the IHI when I say that the tremendous support we have received from everyone around us does more than make our work possible; it makes it uplifting, rewarding, exciting, and meaningful. The IHI team simply could not do what it does without the community coming together to collaborate with us. We thank you. And I look forward to everything we will be doing next year!

Sincerely,

Valerie Gray Hardcastle
Executive Director

WHO WE ARE



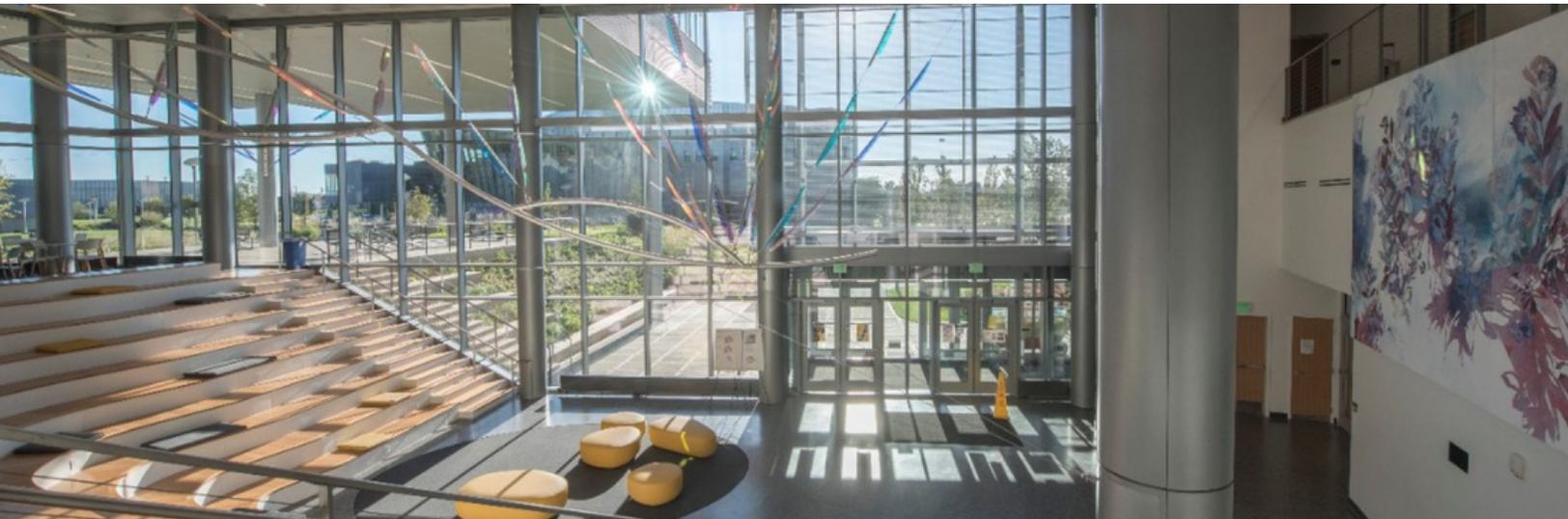
DONORS

THE INSTITUTE'S PROGRAMS ARE MADE POSSIBLE BY THE GENEROUS SUPPORT OF THESE DONORS:

THE DURR FOUNDATION
EVA & OAKLEY FARRIS

THE GREATER CINCINNATI FOUNDATION
HERITAGE BANK

RAMI LEVENTHAL
ST. ELIZABETH HEALTHCARE



WHAT

WE DO

1

CHRONIC ILLNESS

- Owen County Collaborative Addiction Treatment Initiative (OCCATI)
- Carroll County Partners in Reducing Opioid Use Disorder (CC PROUD)
- Carroll & Owen Partnership Expansion (COPE)
- Rural Telemedicine and Telehealth Initiative

2

SOCIAL DETERMINANTS OF HEALTH

- The CARE Closet @ NKU
- Opportunity House
- Geek Your Health

3

FUTURE HEALTH LEADERS

- Opioid-Impacted Family Support Program (OIFSP)
- Adult Peer Support Specialist Microcredential
- NKU Heartsavers
- Health Science Book Club
- Teen Health Science Café
- Youth Health Science Café
- Field Trip Participants
- Summer Camp Participants
- Summer Melt Subscriptions

4

INNOVATION

- SoCap Accelerate
- Collaborative for Economic Engagement
- Collaborative for Economic Engagement Extension
- Health Care Commercialization Post-Baccalaureate Certificate
- IHI Faculty Fellows

5

EVALUATION

- Kentucky 1115 SUD Medicaid Demonstration Waiver
- Kentucky Medicaid Quality Improvement Strategy
- Realworks SUD Contingency Management App
- St. Elizabeth Healthcare Lift-Up Program



NKU INSTITUTE FOR HEALTH INNOVATION

ACTIVE GRANTS AND CONTRACTS

- EDA i6 Grant - \$1,400,000**
- EDA SPRINT Challenge Grant - \$780,000**
- HRSA-RCORP Implementation I and III - \$2,000,000**
- HRSA OIFSP - \$2,400,000**
- HRSA OWEP - \$837,000**
- IIR-COSSAP - \$750,000**
- JCOIN - \$35,201**
- Kentucky 1115 Medicaid Waiver Demonstration Project Evaluation - \$1,500,000**
- Kentucky Quality Strategy Improvement contract - \$250,000**
- Summertime Kids (Greater Cincinnati Foundation) - \$1,000**
- Teen Science Café Rural Fellows - \$2,000**
- Teen Science Café Resource Guides - \$18,009**
- USDA Rural Business Development Enterprise Grant - \$99,000**
- USDA Telehealth and Telemedicine - \$183,000**

REVENUE AND EXPENSES FY 22

Revenues, Gains and Other Support

Grants	\$10,255,002
Contributions	\$150,000
Program Revenue	\$4,100
Central Funding	\$341,600
Grant Overhead	\$332,660

Total Revenues, Gains and Other Support **\$11,083,302**

Expenses

Compensation	\$429,546
Operating	\$86,686
Faculty Fellows	\$20,920
Grant Expenses	\$2,276,673

Total Expenses **\$2,813,785**

PROGRAM HIGHLIGHTS

CHRONIC ILLNESS

We continue to grow the healthcare infrastructure in the rural counties of Northern Kentucky. Our latest addition to the mix is developing telehealth capabilities in Carroll, Gallatin, Grant, Owen, and Pendleton Counties, through a partnership with St. Elizabeth Healthcare, NorthKey Community Care, Three Rivers District Health Department, the county school systems, and the USDA. Supply chain issues have slowed our progress in procuring the equipment, but we expect to be up and running in the fall! We will also leverage this new capability to create a new telehealth/telemedicine clinical training site for nursing, counseling, and social work students in the HIC.

We also started the Recovery Care Team, a new multidisciplinary group in partnership with the Department of Corrections, the Public Defender’s office, and NorthKey Community care that collaborates to ensure that those returning to their communities from incarceration or treatment have reduced barriers to remaining in treatment or recovery, are connected to employment opportunities, and know whom to call when they need help.

NKU receives grant, expands telehealth medicine in rural communities, The Lane Report. 4 November 2021.
<https://www.lanereport.com/149026/2021/11/nku-receives-grant-expands-telehealth-medicine-in-rural-communities/>

Sen. McConnell announces \$6m to help combat opioid epidemic; NKU receives \$1m. NKY Tribune. 10 August 2021.
<https://www.nkytribune.com/2021/08/sen-mcconnell-announces-6m-to-help-combatopioid-epidemic-nku-receives-1m/>

SOCIAL DETERMINANTS OF HEALTH

THE CARE CLOSET @ NKU

The Care Closet @ NKU offers free clothing to assist NKU students assist in finding appropriate interview wear and everyday needs.



379
STUDENT APPOINTMENTS

OPPORTUNITY HOUSE

The Brighton Center broke ground on the Opportunity House, a joint venture with the IHI to provide low-income housing and wrap-around support services for opportunity youth attending college. Opportunity House is located next to Callahan Hall on ML Collins and opened August 2022 to 16 new students.



GEEK YOUR HEALTH

Geek Your Health is a series of health events themed around popular television shows, comics, films and video games. Participants are encouraged to “let their geek flag fly” by wearing fandom themed workout gear and talking about their favorite fandoms before, during and after classes. Everyone will receive a themed workbook to encourage self-reflection and personal tracking, as well as a chance to earn points for fun prizes.



6 Events
Jammin’ on Our Planners
Jedi Training
Avatar Circuit Class
MARVELous Yoga
Geeking Out for Mental Health



195 Geek Your Health participants
250 students at the health event



Brighton Center Hosts Ceremonial Groundbreaking of Opportunity House. Link NKY. 16 November 2021
<https://linknky.com/news/2021/11/16/brighton-center-hosts-ceremonial/>



Opportunity House at NKU to provide affordable housing for students. Fox 19 Now. 17 November 2021
<https://www.fox19.com/2021/11/17/opportunity-house-nku-provide-affordable-housing-students/>

FUTURE HEALTH LEADERS

PEER SUPPORT SPECIALIST CERTIFICATE

In collaboration with the College of Health and Human Services, the IHI developed an on-line microcredential for Adult Peer Support Specialists in Kentucky. With the support of an HRSA-OWEF grant, all students enrolled in this program receive full scholarships for tuition and fees. Since starting, the program has certified 567 students from around the Commonwealth to serve as Adult Peer Support Specialists for those struggling with Substance Use Disorder.

OPIOID-IMPACTED FAMILY SUPPORT PROGRAM

Our new Opioid-Impacted Family Support Program (OIFSP) provides scholarships, paid internships, and paid apprenticeships to students wishing to work with youth and families impacted by Substance Use Disorders as their career. The OIFSP is a specialized track in Northern Kentucky's Human Services and Addictions program and is open to undergraduate and graduate students in Human Services and Addiction, Counseling, Social Work, and Psychology. Over 50 students have now been enrolled in this program.

FIELD TRIPS

This year, we welcomed high school and middle school students back to campus for our field trips. Each visit is a unique experience as students get to experience the St. Elizabeth Simulation Center, Nursing Skills Lab, Radiologic Technology Lab, and the many other hands-on spaces in the Health Innovation Center. This year, we expanded our field trips to include a special session in the Cadaver Lab and reached students further than ever before with Central High School from Louisville visiting in February.



1,002

Students visited the Health Innovation Center for an interactive health centered field trip

FUTURE HEALTH LEADERS

HEALTH SCIENCE CAFÉS

This year, we participated with the national Teen Science Café Network's Rural Fellows program where we examined the impact of the Teen Science Café program on rural youth. Carolyn Noe was named a Resource Guide for the Teen Science Café Network to expand the program across the United States.

We also expanded our Health Science Café program to include 4-6th graders in a Youth Health Science Café. The Health Science Cafe at Northern Kentucky University focuses on health science and health careers. The cafe supports our goals to improve population health and connect students to health career opportunities.



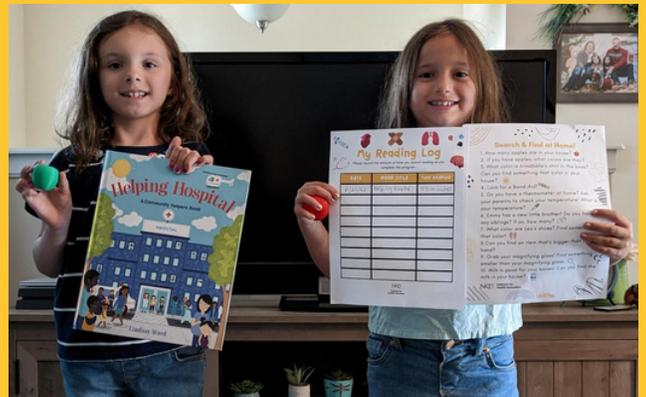
HEARTSAVER

The Heartsaver Certification program teaches students and community members CPR/AED and First Aid. All 95 attendees this year received a free Heartsaver certification and the skills to assist members of their communities with cardiac incidents and other first aid situations.



SUMMER HEALTH BOOK CLUB

In response to COVID-19, we launched a Summer Health Book Club aimed at 3rd graders in 2021. During that first year, we reached 75 students with books related to timely health topics and activities to supplement their learning. As we head into summer of 2022, we have over 250 students registered for this program.



ENTREPRENEURSHIP & INNOVATION

NORTHERN KENTUCKY HEALTH INNOVATION INITIATIVE (NKY-HII)

The Northern Kentucky Health Innovation Initiative (NKY-HII) creates and attracts companies, jobs, and talent in the health innovation sector to northern Kentucky. NKY-HII stimulates and commercializes health innovation by aligning our top economic development, healthcare, university, and startup assets. Thus far, the NKY-HII has assisted over 80 regional startups in raising over \$355 million in capital investments. SoCap Accelerate, our pre-Series A accelerator for health-related companies, successfully graduated their third and fourth cohorts.

This year, SoCap Accelerate Executive Director Rico Grant was honored with several awards. He received the Reds Community Advocate Award as part of the Reds' annual African American Community Night on July 16. The award, presented by TriHeath, celebrates and recognizes business representatives, community leaders and civil servants in the region who advocate connection and inclusion. In November, he was inducted into the Greater Cincinnati & Northern Kentucky African American Chamber of Commerce's 2021 Black Business Hall of Fame.



COLLABORATIVE FOR ECONOMIC ENGAGEMENT

The Northern Kentucky University Collaborative for Economic Engagement is the key connector for entrepreneurs, private sector leaders, investors, educational programs, incubators, accelerators, governmental and economic development organizations, and non-profits.

Housed at 112 Pike Street in Covington, it offers an interconnected set of programs and events to meet the specific challenges facing the northern Kentucky innovation ecosystem.

This year, with funding from the USDA, we established the Collaborative Extension, housed in the NKU Grant County facility in Williamstown, to focus on supporting entrepreneurs and innovators in the rural counties of our region. Collaborative partners Aviatra Accelerators, Square1, the Chase Legal Clinical for Small Business and Non-profits, and the Center for Small Business and Family Enterprise are all starting programs out of our new space.



ENTREPRENEURSHIP & INNOVATION

IDEA CHALLENGE: GROWING THE HEALTH CARE WORKFORCE

On May 11, four finalists competed in the Idea Challenge: Growing the Health Care Workforce. The challenge was designed to identify innovative solutions to address the current and looming shortage of healthcare workers by either sustaining them in their occupation or boosting entry into the field. In their five-minute pitch videos, the finalists detailed their solutions which ranged from changing governmental regulations to decreasing on-the-job psychosocial hazards, to increasing youth interest in healthcare careers.

First Place \$4,000: Ranae Wellness Company – Addressing Psychosocial hazards destroying the careers and wellbeing of helping professionals

Kristen Harness | Leah Legrone | Kelli White

Second Place \$2,000: Wild Success - Promoting Physician Wellness

Pam Cho | Maria Espinola, Psy.D. | Stevi Carr

Third Place \$1,000: Team Norse - Careers in Healthcare through Innovative Pathways (CHIP)

Natalie Eller | Emily Miller | Hanson Nguyen | Maddie Yaw

Fourth Place: Faith Boosters: Bureaucracy Busters

Rebecca Elkins, PhD, CHES, LPTA | Rhyanne McDade, PhD, CHES | Chandra Shannon, RN, NM

MEDIA COVERAGE



Reds return to GABP for African American Community Night. Local 12. 14 July 2021.
<https://local12.com/news/local/reds-return-to-gabp-for-african-american-community-night-cincinnati>



NKU gets two grants to help develop NKY's economic region, assist with health, livelihood of its residents. NKY Tribune. 22 September 2021.
<https://www.nkytribune.com/2021/09/302058/>



New partnership will nurture creation, growth of Black-owned businesses. City of Covington. 18 March 2022.
<https://www.covingtonky.gov/news/2022/03/18/new-partnership-will-nurture-creation-growth-of-black-owned-businesses>



NKU's Institute of Health Innovation names winners of Idea Challenge: Growing the Healthcare Workforce. NKY Tribune. 17 May 2022.
<https://www.nkytribune.com/2022/05/nkus-institute-of-health-innovation-names-winners-of-idea-challenge-growing-the-healthcare-workforce/>

ENTREPRENEURSHIP & INNOVATION

RX SUMMIT

In 2022, Northern Kentucky University once again served as a platinum sponsor of the National Rx and Illicit Drug Summit. The Summit is the largest national collaboration of federal, state, and local professionals seeking to address prescription drug and opioid abuse, misuse, and diversion. More than 3,500 of the nation's top researchers, advocates, policy-makers, medical professionals, and law enforcement agencies were in attendance representing all 50 states. NKU's sponsorship highlighted the university's commitment to addressing population health issues in their 3 sessions presented by the Institute for Health Innovation: Assessing the Consumer-Facing Mobile Apps for Recovery Management for People with Opioid Use Disorder, Using Peer Support Specialists to Create a Culture of Health, and The New Challenge in Substance Use Disorder.



FACULTY FELLOWS AWARDED \$20,920 TO 6 FACULTY PROJECTS

Each year we award grant funds to Faculty Fellows projects. Following a year dedicated to COVID projects, faculty branched out into a wide range of projects from researching caregivers on campus to developing an app for nurses.

Projects:

- Jitana Benton-Lee for Nursing Track Stars: Utilizing Mobile Applications to Footmark Competency-Based Mastery
- Nicholas Caporusso for Enhancing Remote Clinical Collaboration with Real-time Eye-Tracking
- Rebecca Elkins and Rhyanne McDade for Impact of COVID 19 on Overall Student Wellbeing: An Examination of Stress Causality on the Basis of Sex, Race, Income & Grade Level
- Allyson Graf, Joan Adkins, and Katherina Nikzad-Terhune for Caregiving Needs Across Campus
- Reiko Ozaki for Welcoming Community Project
- Mark Wasicsko for Self-Care and Mindfulness Practices for Helping Professionals



Institute for Health Innovation

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