



Old Dominion University
Center for Global Health

2020 ANNUAL REPORT

January 1, 2020 – December 31, 2020



This report was prepared by the ODU Center for Global Health Team

ODU Center for Global Health
4608 Hampton Blvd.* Norfolk, VA 23529
Phone 757.683.4960 * Fax 757.683.5674

Table of Contents

Executive Summary _____	3
Center for Global Health Vision, Mission, and Core Values _____	4
1. Accomplishments _____	5
1.1 Partnerships and Collaborations _____	5
1.2 Research and Services _____	7
1.2.1 Projects _____	7
1.2.2 Publications _____	10
1.2.3 Presentations _____	11
1.2.4 Funding _____	11
2. Teaching _____	12
3. Events and Workshops _____	14
4. Media _____	15
5. Center Operational Updates _____	15
6. Appendixes _____	16

EXECUTIVE SUMMARY

The Old Dominion University Center for Global Health (CGH) continues to establish a strong local and regional presence in 2020. The Center remains the academic home for many public health practitioners who serve as core, adjunct or joint faculty members.

In 2020, The Center's faculty and students continue to represent a rich cultural and ethnic diversity. The Center's community service has been impacted by the COVID-19 pandemic, however CGH quickly adapted to the situation and, strengthened by previous experience with local partners, focused its efforts on responding to COVID-19 challenges. Keeping within the parameters of social distancing, CGH provided remote education, through its Global Health Heroes program, on various global health topics such as infectious disease awareness and prevention and the importance of vaccination.

The Center has completed its new strategic plan (2020-2024) which will help guide current and future initiatives and track progression. The Center aims to maintain the highest quality of global health experience for its students, and to benefit the local, regional, and international communities in meeting the global public health challenges of today and in the future.

CENTER FOR GLOBAL HEALTH

VISION

The Center for Global Health's vision is to improve people's health and quality of life on a local and global basis by leveraging Hampton Roads' unique strengths in education, research, and outreach.

MISSION

Our mission is to positively impact health and well-being through collaborations among faculty, students, communities, and other partners.

CORE VALUES

Health Equity

Health equity is the guiding principle for the Global Health Center. We aspire for all persons to have the opportunity to attain optimal health and for no one to be disadvantaged by social, political, economic, and/or cultural limitations.

Inclusiveness

ODU's Center for Global Health values inclusiveness, thereby promoting an environment for teaching, learning, practice, and research that facilitates the accomplishments of diverse persons. We strive to take into account different needs and strengths of individuals from diverse backgrounds. We seek to advance global health through global collaborations and partnerships that transcend cultural borders.

Interdisciplinary

We espouse an interdisciplinary approach to teaching, learning, practice, research, and service. We cultivate and promote interdisciplinary collaborations across campus, as well as collaborations with other institutions and communities, to improve health both locally and abroad.

Knowledge-driven

ODU's Center for Global Health only generates end-products that are grounded in the principles of scientific rigor and evidence-based knowledge.

1. ACCOMPLISHMENTS

1.1 PARTNERSHIPS AND COLLABORATIONS

Previous Partnerships and Collaborations

- **ABUKLOI** - Collaboration on capacity building and service activities in South Sudan (2013-2016).
- **Bon Secours Health System, Inc.** – Memorandum of Understanding (MOU) with Bon Secours Health System, Inc. for workforce development and training (2015-2016).
- **Colleagues in Care**- Collaboration on new battery technology development for blood pressure monitor (2013-2015).
- **City of Virginia Beach** – MOU with the City of Virginia Beach on the Let's Move Project (2014- 2017).
- **University of New Mexico** - Collaboration for Study Abroad in Munich (2016-2017).
- **World Health Organization** - Collaboration for Health WISE project (2016-2017).
- **University of Fortaleza, Brazil (UNIFOR)** – Collaboration with UNIFOR for Interprofessional study abroad course in Brazil (2015-2016).
- **Ludwig Maximilian University of Munich** - Collaboration for Study Abroad in Munich program (2017).
- **Norfolk Prevention Coalition** - Collaboration on opioid project (2017-2018).
- **United Nations Foundation** - Collaboration with Officer from Global Health Advocacy for Mosquito Event (2017-2018).
- **Ghent Montessori School** - Collaboration with Ghent Montessori school to implement the NIDA drug education toolkit (2015-2019).
- **Cacao 360 Ghana** - Partnership for handwashing project (2018-2020)
- **Western Tidewater Health Department** - Collaboration on Nurse Family Practitioners project (2018-2020)
- **Waggi Labs** - Collaboration with Mr. Chic Thompson for health education (2018-2020)

Ongoing Partnerships and Collaborations

- **Chesapeake Department of Health** - MOU with Chesapeake Department of Health on students' practicums and internships coordination (2016-Present).
- **Eastern Virginia Medical School** – Public health related collaboration with EVMS (2013-Present).
- **Horizons Hampton Roads** - Collaboration with the Horizons program to implement the global health heroes' educational toolkit (2015-Present).
- **LifeNet** – MOU with LifeNet for internship scholarship opportunities (2016-Present).
- **Norfolk Department of Public Health** - Norfolk Department of Public Health to provide a service-learning opportunity for students and community members to help support mosquito surveillance and source reduction efforts in Norfolk, VA (2016-Present).
- **Operation Smile** - MOU with Operation Smile for research and teaching activities (2015-Present).
- **Physician for Peace** - MOU with Physician for Peace for research and teaching activities (2013-Present).
- **Boys and Girls Club of Southeastern Hampton Roads** - Collaboration for Global Health Heroes project (2017-Present).
- **Healthy Chesapeake** - MOU with Healthy Chesapeake for program evaluation activities (2017-Present).
- **United Way** - Greater Hampton Road Dashboard Advisory Board (2017-Present)
- **Virginia Beach Department of Health** - MOU with Virginia Beach Department of Health for internships and practicum coordination (2017-Present)
- **Suffolk Public Schools** - Partnership on Wellness Initiatives for a Happy, Healthy, Productive Staff (2018-Present)
- **Girls Scouts of America** - Collaboration for Global Health Heroes program (2018-Present)
- **Virginia Beach Housing Authority** - Collaboration for Homelessness Connect event (2018-Present)
- **Virginia Modeling and Simulation Center (VMASC)** - Collaboration for Opioid Data (2018-Present)

New Partnerships and Collaborations in 2020

- **Virginia Higher Education Opioid Consortium (VHEOC)** - Colonial Behavioral Health and Blue Ridge Behavioral Healthcare
- **ODU Public Health Student Association** – Collaboration for Public Health Talks
- **Dragas Center for Economic Analysis and Policy**- Collaboration to Assess the Engagement and Effectiveness of the 23-Hour Crisis Care Model. We also collaborated with the ODU Strome College of Business and the ODU Computer Sciences to design a dashboard for the Historic Triangle Drug Prevention Coalition.
- **Atlantic Shores Christian School.** Collaboration to evaluate the school garden project.
- **Parent Circle.** Collaboration to study the effectiveness of the Parent Circle programs, a Nationwide program.

1.2 RESEARCH AND SERVICE

1.2.1 Projects

Global Health Heroes Program

- ODU Center for Global Health Lead Team:
Dr. Michele Kekeh, Dr. Muge Akpinar-Elci
- Student participants: Cara Tonn (GA), Mya Acheke (GA).
- Community Partners: Boys and Girls Club of Southeastern Virginia and Healthy Chesapeake (SPARK)

To meet the community's needs during the COVID-19 pandemic, we successfully implemented the Global Health Heroes program through the internet on an online platform. The program's overarching theme focuses on teaching students how to become Global Health Heroes by protecting themselves and people in their community. This year our curriculum focused on stopping the spread of germs by implementing hand hygiene, practicing social distancing, and wearing masks.

Edlogics Health Literacy Project

- ODU Center for Global Health Lead Team:
Dr. Michele Kekeh, Dr. MyNgoc Nguyen, Dr. Muge Akpinar-Elci
- Community Partner: Edlogics

The Center for Global Health has developed a partnership with Edlogics to design and implement a survey within ODU to assess student's knowledge, perception and practices related to the use of the e-learning health literacy platform. The survey was implemented in Spring 2020.

EVMS Medical Student Service-Learning Project

- ODU Center for Global Health and SCEH Lead Team:
Dr. Muge Akpinar-Elci, Charlene Brassington
- Student participants: Mya Acheke (GA)
- Community Partners: EVMS
- ODU provides ongoing research support and mentoring to EVMS medical students. The goal of ODU-EVMS collaboration is to bring awareness to excess fluoride intake within the Hampton Roads and surrounding area.
- To date, the collaboration has tested fluoride concentration in drinking water in Suffolk, VA and created a survey to assess medical students' knowledge of health outcomes related to fluorosis.

Assess the Engagement and Effectiveness of the 23-Hour Crisis Care Model

- ODU Center for Global Health Lead Team:
Dr. Michele Kekeh, Dr. Muge Akpinar
- Community Partners: Dr. Robert McNab and Dr. Vinod Agarwal (Strome College of Business), Mark Rehfuss and Winfield, ChanieceJ. (EDUC Counseling and Human Services Department), Community Service Board (Mount Rogers)

The Center for Global Health collaborated with partners from the Strome College of Business and the ODU Department of Counseling to assess the effectiveness of the 23-hour crisis model. The Center was responsible for reviewing the data analysis results and designed a report regarding the program's evaluation approach.

Build the Historic Triangle Drug Prevention Coalition Dashboard

- ODU Center for Global Health Lead Team:
Dr. Michele Kekeh, Dr. Muge Akpinar
- Student Participants: Letrice Samuels (intern) and Hira Nadeem (intern)
- Community Partners: Dr. Robert McNab and Dr. Vinod Agarwal (Strome College of Business) Dr. Ajay Gupta (ODU Computer Sciences), Historic Triangle Drug Prevention Coalition

The Center for Global Health collaborated with partners from the Strome College of Business and the ODU Computer Sciences department to build a dashboard for substance use. Faculty members worked with students to identify internal and external data sources, including relevant metrics, to present a holistic picture regarding substance use in the region.

Evaluate the Parent Circle Program

- ODU Center for Global Health Lead Team:
Dr. Michele Kekeh, Dr. Muge Akpinar
- Community Partners: Kathy Dial and Julie Rivnak-McAdam, Kin and Kids Consulting

The Center for Global Health has developed a partnership with Kinship to explore and define case and control groups' characteristics to assess the effectiveness of the parent circle program. In 2020, several meetings took place to review guidelines set in place by the accreditation board, including reviewing the data collection tools.

Evaluate a School Garden Project

- ODU Center for Global Health Lead Team:
Dr. Michele Kekeh
- Community Partners: Jill Stiles and Calib Miller, Atlantic Shores Christian School and Healthy Chesapeake, Inc

The Center for Global Health has developed a partnership with Atlantic Shores Christian School to design and implement a survey to assess student's knowledge, perception, and practices related to the use of the school garden. The IRB was submitted in 2020, and a survey is currently being implemented.

Assessing the Health Care Needs of Members of a Subgroup of Suffolk Public Schools (SPS) Staff Members

- ODU Center for Global Health Lead Team:
Dr. Michele Kekeh, Dr. MyNgoc Nguyen, Dr. Luisa Lucero, Dr. Muge Akpinar-Elci
- Community Partners: Suffolk Public Schools, Obici Sentara Healthcare, Franklin and Suffolk Health Departments, and American Diabetes Association

In 2019, Suffolk Public Schools (SPS) readapted components of their "Wellness Initiatives for a Happy, Healthy, Productive Staff" program based on the health needs of bus drivers, cafeteria workers, and custodians. In 2020, the ODU Center for Global Health (CGH) developed data collection instruments (organizational culture and the reflection questionnaire) and submitted the IRB for the implementation stage of the program.

Healthy Chesapeake Program Evaluation

- ODU Center for Global Health:
Dr. Michele Kekeh, Dr. Muge Akpinar-Elci,
- Community Partners: Healthy Chesapeake Inc

In 2017, the ODU Center for Global Health signed an MOU with Healthy Chesapeake, Inc. to support the evaluation effort for Health Chesapeake program activities. Healthy Chesapeake was created under the leadership of the Chesapeake Health Department and city leaders to address health issues focusing on the low Healthy Opportunity Index (HOI) communities in Chesapeake. The program uses community-driven approaches to implement nutrition education, promote access to healthy food, encourage an active lifestyle, and improve chronic diseases such as diabetes and high blood pressure. Healthy Chesapeake projects emphasize community empowerment. In 2020, the Center submitted a progress report to IRB, collected data regarding the program activities, and provided a summary report to the organization.

1.2.2 Publications

- **Kekeh, M. & Akpinar-Elci M.** Public Health Perspective of Racial and Ethnic Disparities During SARS-CoV-2 Pandemic. *Coronavirus (COVID-19) Outbreaks, Environment and Human Behaviour. International Case Studies* (in press)
- Hirschauer, S.C., Karp, R., **Kekeh, M., Akpinar-Elci, M.** Service-Learning Study-Abroad and Europe's Migration Crisis – A Case Study. *Intercultural Education*. 2020 DOI: 10.1080/14675986.2020.1859992
- Sirjani H, **Akpinar-Elci M.** Impact of Educational Intervention on Knowledge of Opioid Prescribing among Healthcare Providers: A Systematic Review. *Virginia Journal of Public Health* 2020, 4 (3): 44-59
- Redican K, **Akpinar-Elci M.** Integrating One Health into Professional Preparation Education for Public Health and Health Education Specialist. *American Journal of Health Education*, 2020. DOI: 10.1080/19325037.2020.1844099,
- **Kekeh, M., Akpinar-Elci, M.,** Nguyen, M., & Welch, N. Innovative Framework for Academic and Public Health Departments' Partnership on Preparing Future Practitioners- Preliminary Data. *Collaborations. Journal of Community-Based Research and Practice* 2020, 3(1): 13. 1-9 DOI: 10.33596/coll.59.
- Al-Taiar A, Rahman A, Alsabab R, Shaban L, AlBaloul A, Banaee S, **Akpinar-Elci M.** Vitamin, D levels in relation to low back pain during adolescence. *British Journal of Nutrition* 2020. 123 (11): 1302-1311.

1.2.3 Presentations

- Akpinar-Elci, M. Climate Change and Global Health. Industrial and Environmental Toxicology Congress (Virtual) Nov 2020.
- Kekeh M, Porzig D, Welch N, Driskell C, Phillips I, Scouten S, Akpinar-Elci M. Community-based partnership for chronic disease management – case of hub, a pilot study. American Public Health Association Annual Meeting (Virtual) Oct 2020.
- Kekeh M, Samuels L, Akpinar-Elci M, Porzig D, Schofer W, Welch N. Perception of Bikeability and Walkability in Low Health Opportunity Index (HOI) Communities in Chesapeake, Virginia. American Public Health Association Annual Meeting (Virtual) Oct 2020.
- Monk, B (CGH intern). Implementing the Physical Activity and Education Program (COPP) to Prevent Obesity in Chesapeake, VA. VPHA Annual Meeting (Virtual) April 2020
- Achike M (CHG GA). Maternal Body Mass Index and Breastfeeding Outcomes: A Systematic Review. VPHA Annual Meeting (Virtual) April 2020

1.2.4 Funding

- **Akpinar-Elci, M., Kekeh M.,** Community Capacity Building in Hampton Roads. Hanson Foundation (2020) -\$10,000
- **Akpinar-Elci, M., Kekeh M,** Annual Service Agreement, Chesapeake Health Department (2020) - \$15,000
- **McNab R, Kekeh M, Akpinar-Elci M.** Engagement and Effectiveness of the 23-hour Crisis Care Model. Virginia Higher Education Opioid Consortium (2020) - \$96,900
- **Kekeh M, Akpinar-Elci M.** Suffolk Public Schools Wellness Program Evaluation, OBICI/ Suffolk Public School (2020) - \$79,380
- **Agarwal V, Kekeh M, Akpinar-Elci M.** Data Monitoring for Drug Prevention Coalition, The Historic Triangle Drug Prevention Coalition (HTDPC) Virginia Higher Education Opioid Consortium (2020) - \$40,075

2. TEACHING

Global Health Certification Program

The Center for Global Health launched the Graduate Certificate in Global Health in 2014. This competency-based certificate program aims to provide comprehensive training in Global Health. The online Graduate Certificate in Global Health offers major benefits to many professionals within healthcare, engineering, life sciences, education, business and the liberal arts. The certificate program was designed as an online program for graduate students and professionals who are practicing or planning to practice in a worldwide setting. Students can complete this online certificate program in one year.

In 2020, 18 students enrolled in the Global Health Certificate program in the Center for Global Health at ODU. One student (Lori Hendrick) completed the certificate program in 2020.

2.1 GLOBAL HEALTH CERTIFICATE COURSES (OFFERED IN 2020)

- HLSC 746/846 Epidemiology – Abdullah Al-Taiar, MD, PhD
- HLSC 776 Global Health – Shelley Mishoe, PhD
- HLSC 702/802 Health Management – Shelley Mishoe, PhD
- HLSC 785 Issues and Opportunities in Global Health Research – Michelle Kekeh, PhD
- HLSC 778 Global Environmental Health – Muge Akpinar-Elci, MD, MPH
- HLSC 798 Supervised Research – Michelle Kekeh, PhD
- HLSC 768 Practicum in Global Health course - Muge Akpinar-Elci, MD, MPH

2.2 INTERNSHIP & ADVISEMENT

Student	Degree Program	Semester	Supervisor
Cara Tonn	MPH - ODU	Fall 2020	Dr. Michele Kekeh
Mya Achike	HSR PhD - ODU	Fall 2020	Dr. Muge Akpinar-Elci
Brianna Monk	MPH-EVMS/ODU	Spring 2020	Dr. Michele Kekeh
Hedieh Sirjani	HSR PhD - ODU	Summer-Fall 2020	Dr. Muge Akpinar-Elci Dr. Michele Kekeh
Hira Nadeem	MPH - ODU	Summer 2020	Dr. Muge Akpinar-Elci
Letrice Samuels	MPH - ODU	Summer 2020	Dr. Michele Kekeh
Emily Kubacki	BSHS – ODU	Summer 2020	Dr. Michele Kekeh
Ashley Davis	BSHS - ODU	Spring 2020	Dr. Michele Kekeh
Cherita Wright	MPH- Liberty University	Spring 2020	Dr. Michele Kekeh, co-supervisor
Sarah Scouten	Capella University	Spring 2020	Dr. Michele Kekeh, co-supervisor

3. EVENTS AND WORKSHOPS

(Hosted or Sponsorship by the Center)

- Communication & COVID-19. Giovanna Genard, Assistant Vice President for Strategic Communication and Marketing, April 2020
- Coping with Uncertainty During the COVID-19 Public Health Crisis. Dr. Vanessa Dominguez, April 2020
- Panel discussion: Epidemiological Perspectives & Public Health Preparedness-COVID-19. Dr. Nancy Welch, Dr. Ross Gore, & Dr. Abdullah Al-Taiar, May 2020
- Challenges and Opportunities Designing Sustainable Control Measures for Epidemics. Dr. Baltazar Espinoza, September 2020
- Public Health, and Sex Trafficking: A Public Health Crisis. La Wanza Lett-Brewington, October 2020
- Costa Rica's Response to COVID-19 Pandemic. Ambassador Dr. Fernando Llorca Castro, November 2020
- Safe Patient Handling: A Case for National Litigation. Lt. Davis O. Oba, November 2020
- COVID-19 Pandemic: Social and Public Health Measures, A Global Perspective. Akpinar-Elci, M. & Kekeh, M. Collaboration with the ODU Center for Global Engagement, Dec 2020.

4. MEDIA COVERAGE

- Akpinar-Elci, M., Mishoe, S, Coronavirus: Global community needs proactive stance on viral outbreaks. The Virginian Pilot, March 2020.
- Kekeh, M., Akpinar-Elci, M., Opinion: Public Acceptance of COVID-19 Vaccine hinges on sound planning. The Virginian Pilot, September 6, 2020.
- Akpinar-Elci, M., Hoglund, L., ODU's Center for Global Health has new collaboration with Norfolk-based Physicians for Peace. News at ODU, September 11, 2020.
- Kekeh M, Partner's spotlight: ODU Center for Global Health. SPS Wellness Newsletter, Dec 2020

5. OPERATIONAL UPDATES

- In May 2020, Mr. Bob Rudman was selected as Chair of the Board of the Directors for the Center for Global Health.
- In September 2020, The Center for Global Health welcome as a new staff member, Ms. Carla Knox who will be part of the staff of the Center as an Administrative Assistant.
- The REACH (Research, Education, and data Analysis for Community Health) Lab was piloted in 2019 by three faculty members and two Health Services Research Ph.D. students. It serves as a multidisciplinary research laboratory housed at the Center for Global Health. The Lab recognizes the importance of combining the expertise and capacities of multiple institutions, disciplines, and professions in addressing complex health problems. The Lab seeks to create a productive and friendly environment to educate and train future generations of public health researchers and provide a vehicle for unique public health research and programs that do not fit more traditional academic structures. In 2020, members convened biweekly to discuss research collaboration, support, and progress and identify potential research collaboration areas.

6. APPENDIXES

6.1 APPENDIX A

Center of Global Health Personnel

- **Director**: Muge Akpinar-Elci, MD, MPH, FRSPH
- **Assistant Director**: Michele Kekeh, PhD
- **Administrative Assistant**: Carla Knox

Adjunct Faculty

- **Hasan Bayram, MD, PhD**,
University of Gaziantep, Turkey
- **Satesh Bidaisee, DVM, MSPH**
St. George's University, Grenada, WI
- **Enrico Wensing, PhD**,
Plymouth University, UK and University of Virgin Islands, Virgin Islands
- **Maria Stuttaford, PhD**
London South Bank University, England
- **Kathleen Clark, PhD**
CDC/ NIOSH Surveillance Branch, Morgantown, WV

6.2 APPENDIX B

Advisory Board Members

Chair

Bob Rudman
Chief Global Products Officer
Dollar Tree Inc.
brudman@dollartree.com

Members

Nancy Jallo, Ph.D
Associate Professor
Virginia Commonwealth University, School of Nursing
njallo@vcu.edu

Mike Jakubowski
Senior Vice President
Towne Bank
Mike.Jakubowski@townebank.net

Jennifer Krzewinski
Student Programs Associate Vice President
Operation Smile Global Headquarters
JenniferKrzewinski@gmail.com

Shelley Mishoe, PhD
Professor
ODU School of Community and Environmental Health
smishoe@odu.edu

Claire Winiarek
Vice President at Megellan Health
cwulfwiniarek@magellanhealth.com

Nancy Welch, MD, MHA, MBA
Director
Chesapeake Health Department
Nancy.welch@vdh.virginia.gov