# Journal of Health Disparities Research and Practice

Volume 12, Issue 2 2018 Article 2

## Teaching about Cultural Competence and Health Disparities in an Online Graduate Public Health Course

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#### **Abstract**

The growing diversity in U.S. society encourages the need for culturally competent healthcare professionals to provide optimal services to a diverse population. This increasing diversity also brings greater awareness to health disparities among distinct subgroups of the U.S. population. Addressing health disparities in the USA will require a multidimensional approach from various sectors, including the field of education. Developing health disparities curricula can help cultivate conscious future health practitioners. Faculty development programs can be integral in equipping faculty to develop curricula on and teach students about health disparities. With a growth in online learning and in the number of adult learners within the health professions field, it is important to design online curricula to prepare students to engage with diverse populations with varied healthcare needs. The purpose of this paper is to describe faculty efforts to teach and evaluate health disparities-related education in an online graduate course on cultural competence in Public Health practice.

**KEYWORDS:** public health education; health disparities curriculum; cultural competence; curriculum development; faculty development; graduate education

<sup>\*</sup>The authors thank the Faculty Center for Teaching and Learning at Ferris State University for their support of this project, Dr. Justice Odiase for assistance with data analyses, retired Dean Dr. Matthew Adeyanju and current administrators at the College of Health Professions for their support in accommodating this course into the curriculum, and all the students who participated in this study.



### Journal of Health Disparities Research and Practice Volume 12, Issue 2, Summer 2019, pp. 14-39

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#### **ABSTRACT**

The growing diversity in U.S. society encourages the need for culturally competent healthcare professionals to provide optimal services to a diverse population. This increasing diversity also brings greater awareness to health disparities among distinct subgroups of the U.S. population. Addressing health disparities in the USA will require a multidimensional approach from various sectors, including the field of education. Developing health disparities curricula can help cultivate conscious future health practitioners. Faculty development programs can be integral in equipping faculty to develop curricula on and teach students about health disparities. With a growth in online learning and in the number of adult learners within the health professions field, it is important to design online curricula to prepare students to engage with diverse populations with varied healthcare needs. The purpose of this paper is to describe faculty efforts to teach and evaluate health disparities-related education in an online graduate course on cultural competence in Public Health practice.

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#### INTRODUCTION

Cultural competence in health care has been described as "a developmental process defined as a set of values, principles, behaviors, attitudes, and policies that enable health professionals to work effectively across racial, ethnic, and linguistically diverse populations" (Joint Committee on Health Education and Promotion Terminology, 2012; p.11). Census data illustrate steady population increases in the USA and expectations that the nation will become increasingly diverse (U.S. Census Bureau, 2014). The growing diversity in U.S. society necessitates that health professionals understand the attitudes, cultural nuances, cultural beliefs and values, and health-seeking behaviors of various groups, to provide optimal services to a diverse population (Perez &

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Luquis, 2014). A "culturally competent" healthcare system has been defined as "one that acknowledges and incorporates—at all levels—the importance of culture, assessment of cross-cultural relations, vigilance toward the dynamics that result from cultural differences, expansion of cultural knowledge, and adaptation of services to meet culturally unique needs" (Betancourt, Green, Carrillo, & Ananeh-Firempong, 2003; p. 295).

Increasing diversity also brings awareness to health disparities among distinct segments of the U.S. population. Health disparities are differences in health outcomes among population subgroups that are linked to such factors as race, ethnicity, socioeconomic status, gender, geographic location, or other factors historically linked to discrimination or exclusion (U.S. Department of Health and Human Services, 2008). Certain population groups have been disproportionately affected by illness, disability and premature death, determined by factors such as race and ethnicity, socioeconomic status, gender, and geographic location (Meyer, Yoon, & Kaufmann, 2013). For instance, there are continuing disparities in mortality between African-Americans and Whites, illustrated by estimated life expectancy rates of 75.5 and 79.1 years, respectively (Arias, Heron, & Xu, 2016). Moreover, residents in predominantly minority communities continue to have greater risk and burden of disease when compared to members of the general population residing in the same county or state [Centers for Disease Control and Prevention (CDC), 2011]. Fair or poor self-rated health is reported by greater proportions of racial/ethnic minority groups (except Asian/Pacific Islanders), individuals with lower levels of education, those with lower annual income, and persons who are unemployed, when compared to non-Hispanic Whites, individuals with higher levels of education, individuals with higher income, and those who are employed (CDC, 2000). Geographically, rural U.S. communities have higher rates of morbidity and mortality and poorer health outcomes such as low birthweight, teen pregnancy, childhood obesity, preventable hospital stays, cancer, and diabetes incidence (Meit et al., 2014), and greater rates of poor health behaviors such as inadequate diet, physical inactivity, and smoking when compared to urban areas (Eberhardt & Pamuk, 2004; Hartley, 2004).

Eliminating health disparities is a leading Public Health priority in the U.S. (Healthy People 2020). Furthermore, addressing health disparities in U.S. society will require a multidimensional approach from diverse stakeholders, including academic institutions. One area for target is the current and future scientific medical workforce, as incorporating health disparities awareness courses into the curriculum can help cultivate conscious, culturally competent health practitioners to reduce health disparities (Rose, 2013; Benabentos, Ray, & Kumar, 2014). Cultural competency curricula may help reduce implicit bias among students and therefore help address health disparities (White-Means, Dong, Hufstader, & Brown, 2009; Blair, Steiner, & Havranek, 2011; Boscardin, 2015; van Ryn et al, 2015). As a result, many graduate programs in the health professions are integrating content on cultural competence and health disparities into their curricula (Shaya & Gbarayor, 2006; Jarris, Bartleman, Hall, & Lopez, 2012; Maldonado, Fried, DuBose, Nelson, & Breida, 2014; Cushman et al., 2015; Elias et al., 2017). This type of content is also emerging in health professions courses at the undergraduate level (Gutierrez & Wolff, 2017; Daugherty & Kearney, 2017; Batada, 2018). A search of the literature exclusively yields evaluations of online cultural competence and health disparities courses in disciplines outside of Public Health (Adam, 2008; Evans & Hanes, 2014). This suggests an opportunity to assess effect of such courses on Public Health students.

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Preparing culturally competent health professionals is a critical component in addressing the needs of those facing health disparities. Thus, pedagogical approaches to health education must be comprehensive and far-reaching. Online education has the capacity to reach a broader scope of learners from diverse backgrounds and to broaden knowledge of health careers (Locatis et al., 2015). As such, a consideration for more education around cultural competence should be a critical component in online learning. With the increasing global outreach of online programs and courses, there is a great need to design and deliver online learning that can be engaging to a culturally diverse audience (Rogers and Wang, 2009). According to recent reports, a majority of online students are women, work full-time and average 32 years of age. More notably, students seeking to earn degrees in health related fields represent the vast majority of online learners (Friedman, 2018). It is expected that enrollment of adult learners who are over the age of 24 will increase at a faster rate than traditional-aged students through 2020 (Hussar & Bailey, 2011). With the health professions discipline having the fastest growth in online enrollment (Allen & Seaman, 2011), it is important that the online learning environment be designed to prepare students to engage with diverse populations with varied needs.

Knowles (1984) identifies four major principles that characterize the adult, online student population, one of which is that they accumulate an extensive depth of experience, which serves as a strong foundation for their learning. One might make the argument that these life experiences often contribute to unchallenged, or unidentified, assumptions. As such, there is an opportunity for online educators to challenge such assumptions by infusing aspects of cultural competence in the learning of their students. The purpose of this article is to describe faculty efforts to deliver and evaluate health disparities-related education in an online graduate course on cultural competence in Public Health practice.

#### **METHODS**

This pilot study took place at a rural, predominantly white university in the Midwestern United States. The university is dedicated to training and educating future health professions leaders, and launched the Bachelor of Science in Public Health (BSPH) and Master of Public Health (MPH) degree programs in 2014. The programs focus on preparing and educating health professions students to work in underserved populations, largely due to the university's location in a rural area. Health disparities awareness content was integrated into an online graduate course on multicultural competence in Public Health practice that was taught in Spring 2017. The course was designed to provide students with the opportunity to explore complex concepts of how cultural diversity can affect delivery of Public Health services. The course also aimed to give students the opportunity to gain skills necessary to provide culturally competent Public Health services. The study design was a pre- and post- survey given to a cohort of 13 students. The course was taught asynchronously online over an 8-week period and is a required course in the MPH program.

#### Faculty Training and Course Development

A group of Public Health faculty were assigned to develop MPH courses for the new Public Health program. To prepare for online teaching before arriving to campus, the faculty completed an 8-week online course designed to provide online professional development for online educators and to encourage collaborative exploration of new teaching strategies, learning principles, and competencies (MarylandOnline, 2014). Faculty learned effective online teaching strategies for

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student success, including consideration of cultural differences that effect online learners, reflection as an active learning strategy to develop cognitive presence online, procedural scaffolding as a cognitive strategy to support learners' thinking, and active learning strategies such as reflection to develop cognitive presence online (Stavredes, 2011). Upon arrival on campus, faculty also attended a weeklong immersion workshop in which they outlined and organized course development, mapped program curricula, adopted program assessment measures, and implemented instructional design. Faculty also participated in several professional development programs at the university. Faculty development programs have been shown to improve knowledge, attitudes, and skills, and increase interest and motivation for teaching among faculty (Lancaster, Stein, MacLean, Van Amburgh, & Persky, 2014). From 2014-2015, faculty were enrolled in the university's new faculty transition program, and attended bimonthly workshops on such topics as "Creating Inclusive Classrooms", "Active Learning", and "The Inclusive and Engaged University Community". Some faculty received travel grants from the university's Faculty Center for Teaching and Learning to attend diversity-guided education conferences, and used knowledge gained to improving their teaching practices and curriculum.

Some faculty also participated in an interactive university workshop designed to encourage faculty to examine privilege, power, and identity in teaching and student learning and increase inclusive teaching practices. Subsequently, faculty applied insights from this workshop to create student reflective assignments that addressed health disparities-related course learning outcomes, and to deliver a regional conference presentation based on this workshop. Upon reflection, one faculty member felt that engagement with this particular faculty learning community really pushed them to examine privilege and unearned advantage in a new way and to critically explore how they, along with other faculty and students, may benefit or be adversely impacted by privilege in the classroom. As a result of the learning community, this faculty member reflected more frequently on the presence and absence of power and privilege in their life and the impact on their teaching and students' learning. This faculty member actively sought out resources that discussed or promoted awareness on this topic; continued conversations on this topic outside of the learning community with family, friends and colleagues; and actively pondered how to infuse such concepts into their coursework and activities. For instance, in a health promotion class, the faculty member incorporated YouTube videos and documentaries that discussed how factors like structural discrimination and racism result in racial and ethnic disparities in health outcomes.

In another workshop, faculty explored inclusion and diversity-related topics that affect educators and students. Faculty then conceptualized how social identity, intersectionality, power and privilege produce overlapping systems of disadvantage that contribute to health disparities. For some of the workshops, faculty were eligible to receive a professional development incentive (PDI) upon completion and submission of a final deliverable. Faculty could use PDI to advance their career goals related to teaching and student learning, such as conference attendance or equipment purchase. Some faculty presented their health disparities research at university conferences and forums. Some faculty also secured sponsored, external training in the form of an intensive summer workshop intended to increase the numbers of researchers engaged in health disparities research. One faculty member attended two sponsored national symposiums, which provided a forum for underrepresented early and mid-career researchers to network, receive professional development and training, and share research ideas. Insights gained from teaching

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and learning conferences included information about professional development opportunities for faculty to read, think, study, and improve teaching; strategies to reflect on one's teaching; and recommendations for faculty to have colleagues observe their teaching and give feedback. Other knowledge gained included e-learning development for remote and distance learning to show faculty innovative ways to develop online courses embedded with videos, slides and commentary. One interactive conference session proposed unique classroom learning activities and encouraged participants to reflect on diversity, privilege, leadership and any progress made in the 21<sup>st</sup> century. Another conference session examined perceptual and substantive approaches to diversity, explored a diversity framework for affecting social change, and investigated the intersections between diversity and inclusion. Overall, such conferences and professional development opportunities helped faculty expand their professional network, enhance understanding about current issues related to the scholarship of teaching and learning, conceptualize new ideas to maximize course design and delivery and student learning, and develop intentional instructional approaches to raise health disparities awareness among students.

Concurrently, one of the faculty members participated in a Junior Faculty Fellows Program (JFFP), which provided support for this project. The JFFP initiative helped faculty in their second or third year at the university advance their teaching, scholarship or service goals and develop a research idea within an accountable and supportive learning community. JFFP participants were also encouraged to develop relationships with faculty at similar stages in their careers and disseminate their project findings and expertise with the university community. Upon project completion, faculty were eligible to receive a PDI towards activities to enhance their teaching and student learning. The faculty member who completed the JFFP chose to assess the effect of curriculum content on students' awareness about health disparities, to serve as a final deliverable for the program. Therefore, the JFFP supported the faculty member's efforts to implement instructional approaches and gather data on student learning about health disparities.

#### Course Design and Delivery

Integrating a variety of teaching styles and assessment methods, one faculty member made concerted attempts to infuse health disparities awareness content into the course (Table 1). Course learning outcomes, assessment methods, and learning activities were designed to build awareness of the presence of, contributors to, and consequences of health disparities within U.S. society (Perez & Luquis, 2014). Students also explored and applied theoretical models that help to explain cultural competence, including the Purnell Model for Cultural Competence (Purnell, 2002).

Table 1. Sample Course Learning Outcomes, Assessment Methods, and Lecture Topics and Objectives

Course Learning	Assessment	Lecture Topic	Sample Lecture
Outcome	Method		Objective
1. Explain the	- Cross-	- Implications of	- Describe the selected
concepts and issues	Cultural Quiz	changing U.S.	characteristics of the
relating to cultural	- Online	demographics	major racial and ethnic
diversity and	Discussion		groups in the United
competence in Public	Board		States.
health Practice.			
2. Critically examine	- Reaction	- Health disparities	- Explain the social
cultural and structural	Paper	and social	determinants of health
barriers in the practice	- Online	determinants of	and its impact on
of Public Health.	Discussion	health	health disparities.
	Board		
3. Explain the various	- Quiz	- Planning,	- Discuss the influence
biases that exist		implementing, and	of culture, heritage,
between		evaluating	family, religion, and
underrepresented		culturally	spirituality, among other
populations and their		appropriate	factors, on health
healthcare providers in		11 1	ĺ ,
healthcare encounters.		programs.	behaviors and practices.
4. Analyze the factors	- Article	- Culturally	-Analyze guidelines for
that promote adherence	Critique	appropriate	effective
to healthcare		communication	communication and
treatments among			cultural competence in
different cultures.			planning health
			education programs.
5. Synthesize strategies	- PowerPoint	- Opportunities for	-Discuss strategies to
to develop a culturally	Presentation	cultural	integrate cultural and
competent health		competency and	linguistic competence
promotion and		health education	into health promotion
education program.			and education programs
			to facilitate effective
			interactions with
			individuals or
			communities.

Various learner-centered teaching strategies and assessment methods were incorporated to stimulate further awareness of and interest in cultural competence and health disparities, promote student engagement, and create a welcoming learning environment. Learner-centered teaching in higher education encourages faculty to focus on what students learn rather than what faculty teach;

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emphasizes concepts of active learning, collaboration and emphasis on application; and motivates faculty to help students relate knowledge and skills acquired to their future professional and personal goals (Blumberg, 2008; Felder & Brent, 1999; Weimer, 2013). Faculty who practice learner-centered teaching emphasize problem-solving and critical thinking among students, serve as facilitators to guide student learning, encourage students to reflect on what and how they are learning, share power and give students choice and control in their learning, and foster classroom community and collaboration among students (Weimer, 2013). Moreover, when engaging online students, it is important to establish the community, or set the tone, support students into more challenging activities, and foster communication and interaction (Stott and Mozer, 2016). The course syllabus included information about the instructor's contact information, required course materials, academic and course policies, services for students with disabilities, rules of 'netiquette' (etiquette in an online course), grading scale, and assignment details and due dates. There were a variety of assignments that catered to different learning styles, including quizzes, discussion boards, reflective papers, and an evaluation of a peer-reviewed journal article. A Week 1 discussion board served as an icebreaker to allow students an opportunity to introduce themselves and state their expectations for the course. Icebreaker activities in an online course have been described as a safe way to establish communication and build community in a non-threatening manner (Conrad & Donaldson, 2012). Once the tone was set with the icebreaker, students were assigned a low-pressure, point-bearing assignment in the form of an online cross-cultural quiz. Students could take the quiz as many times as desired to achieve an optimal score, could see the correct answers upon completion, and had to submit a screenshot of the certificate received upon completion to receive credit for the assignment.

Moreover, teaching online can be transformative when instructors create a safe and inviting learning environment, encourage students to explore their own experiences and biases, and increase student awareness about inequalities and oppression (Meyers, 2008). In this course, students completed a self-exploration assignment in which they stated the cultural groups with which they identified, specified a cultural group that is salient to them, specified a culture they wanted to know more about, and proposed actions they would take to learn more about another culture. In another assignment, students wrote a reflective paper in response to a documentary on how social conditions affect population health (Aldeman et al., 2008), and discussed contributing factors to disparities in health status and health care utilization. Discussion board assignments required students to view documentaries that examined factors affecting the health of immigrants that come to and stay in the U.S. (Rios, Rodriguez, & U.S. Public Broadcasting Service, 2008), and the relationship between disempowerment, the uprooting of Native Americans' cultural traditions, and health outcomes (Fortier, January, & U.S. Public Broadcasting Service, 2008). After viewing the documentaries, students answered reflective questions and responded to discussion posts of at least two classmates. To encourage true reflection, students were not able to see their peers' posts until they posted their own first. In an online case study activity, students described cultural and religious factors to consider when developing breast cancer prevention programs among immigrant women (Perez & Luquis, 2014). Among the discussion board guidelines were that students had to provide constructive feedback that was respectful and courteous, reference peers by name when responding to posts, include their name at the end of their posts, and include relevant scholarly citations in their posts. Interaction is one of the most

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essential elements of online instruction. Engagement can be learner-content, learner-teacher, learner-learner (Moore, 1989), and learner-interface (Hillman, Wills, & Gunawardena, 1994). Participation in this course was expected and was graded.

One of the lectures focused on lesbian, gay, bisexual, transgender, and questioning (LGBTQ) health disparities. Lecture objectives aimed to increase awareness of and sensitivity to health issues relevant to the LGBTQ population, and have students demonstrate cultural competence when working with the LGBTQ population (Perez & Luquis, 2014). Students were assigned a research article that examined demographic and psychosocial factors that determine the mental health of sexual minority groups (Bariola et al., 2015). Another assignment required students to develop a culturally competent health education program for a health behavior affecting This assignment was in the form of a narrated PowerPoint a specific population group. presentation, a flipped classroom component that can improve student performance (Della Rata, 2015). Students were also instructed to complete a peer review assignment where they had to evaluate at least three of their peers' presentations. Evaluation of another student's work is a particularly effective way to improve student writing (Angelo and Cross, 1993). A summative assignment included having students select a scholarly article of their choice that focused on a health problem contributing to health disparities within a particular population group. Overall, these and other educational activities were designed to create a safe and welcoming online learning environment, and enhance student awareness and engagement (Gilboy, Heinerichs, & Pazzaglia, 2015).

#### Data Collection

Ethical approval for the study was granted by the university's Institutional Review Board (ID #160401). Subsequently, students completed pre- and post-surveys to assess the effect of intentional instructional approaches on their health disparities knowledge and attitudes. Surveys were distributed online eight weeks apart, at both the beginning and the end of the Spring 2017 semester. The anonymous survey included an informed consent form, which provided the project title, contact information to send any questions or concerns, a statement that participation was voluntary, and assurance that nonparticipation would not affect the student's relationship with the university. The survey included eight questions to gauge level of agreement through a 5-point Likert scale (1=strongly agree, 5=strongly disagree). Survey questions were developed based on course learning outcomes, due to lack of validated surveys in the literature. The survey collected sociodemographic information on gender, age, year in school, area of residence, employment status and academic major. To facilitate analysis, the age variable (25-64 years) was dichotomized at the midpoint of the scale. Students were also asked to complete online evaluations to rate instructor and course elements (IDEA, 2017). Additionally, a Department Head and tenure committee member was granted access to the online course module and completed a customized observation instrument that evaluated the instructor in areas such as teaching style, student engagement, preparation, and organization.

#### Data Analysis

Study data were coded and entered into the Statistical Package for the Social Sciences (IBM Corp. Released 2016. IBM SPSS Statistics for Windows, Version 24.0. Armonk, NY: IBM Corp.). Descriptive statistics, including frequencies and means, were generated to compare preand post-survey scores and analyze demographic characteristics. Paired t-tests were used to assess

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change in students' responses to questions between the pre- and post-survey. One-way analysis of variance (ANOVA) was used to analyze data from independent variables with three or more levels. Level of significance was set at p<0.05.

#### **RESULTS**

Twelve students completed pre- and post-surveys, yielding a 92% completion rate. Regarding sociodemographic characteristics, students in this sample were all female, primarily between the ages of 25 to 44 years, rural residents, Public Health academic majors, and employed full-time (Table 2). Paired t-tests revealed statistically significant positive changes in students' pre- and post-survey scores for several survey items (Table 3).

Table 2. Demographic Characteristics of Participants at Post-Survey

Variable	N (%)
Age	
25-44 years	9 (75.0)
45-64 years	3 (25.0)
Gender	
Women	12 (100.0)
Year in School	
Graduate Student	12 (100.0)
Area of Residence	
Urban Area	2 (16.7)
Rural Area	8 (66.7)
Suburban Area	1 (8.3)
Missing Data	1 (8.3)
Employment Status	
Employed Full-Time	10 (83.3)
Employed Part-Time	2 (16.7)
Academic Major	
Nursing	2 (16.7)
Public Health	10 (83.3)

Table 3. Paired Sample T-Test Mean Scores for Students' Pre- and Post-Test Surveys

	Mean Baseline	Mean		95% Con Inter	
Survey Question	Survey Score (1=low, 5=high)	Follow-Up Survey Score (1=low, 5=high)	Significance (2-tailed)	Lower	Upper
1. I have an interest in health promotion and education.	4.80	4.67	.584	367	.633
2. I have discussions with others about topics related to health promotion and education.	4.00	4.42	.233	-1.077	.243
3. I understand what the term 'health disparities' means.	4.00	4.82	.000*	-1.087	550
4. I am able to explain the relevance of health disparities to planning, implementing and evaluating a health promotion program.	3.60	4.58	.001*	-1.524	443
5. I am able to discuss strategies health promotion programs can use to reduce health disparities.	3.60	4.58	.003*	-1.593	374
6. I am able to discuss the role of theory in understanding health behavior and disparities in health status.	3.20	4.25	.012*	-1.845	255
7. I am able to examine the role of collaboration and advocacy in developing effective public health interventions.	3.70	4.33	<b>.</b> 057	-1.289	.022

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	Mean Baseline	Mean Follow-Up		95% Con Inter	
Survey Question	Survey Score (1=low, 5=high)	Survey Score (1=low, 5=high)	Significance (2-tailed)	Lower	Upper
8. I would like to explore issues related to health disparities in my education, research, or practice.	4.30	4.58	.336	883	.316

<sup>\*</sup>Statistically significant (p<0.05)

Analyses also yielded statistically significant differences in students' health disparities awareness according to age, area of residence and employment status. At follow-up, there were statistically significant higher mean scores among students ages 25-44 years old compared to the those ages 45-64 years old (p=0.001<0.05). Specifically, there were statistically significant higher mean scores for each survey item among students ages 25-44 years old at follow-up (p=0.002<0.05). There were no significant differences between the baseline and follow-up scores among students ages 45-64 years old (p=0.472>0.05). Additionally, there were statistically significant higher mean scores from baseline to follow-up survey among both Urban residents (p=0.008<0.05.) and Rural residents (p=0.016<0.05), but not among Suburban residents (p=0.171>0.05). There was also a statistically significant increase in mean scores from baseline responses to follow-up responses, among those employed full-time (p=0.004<0.05).

#### Course Evaluations and Student Reflections

The instructor observed that various teaching modalities encouraged learning, increased participation and promoted engagement among students. Anonymous online course evaluations, which were administered in addition to the pre- and post-surveys, yielded a 100% completion rate. On the evaluations, students' summary assessment of teaching effectiveness resulted in an overall course rating of 4.6 out of a 5.0 scale. Students provided ratings (out of a 5.0 scale) on different items for instructor assessment for the course, including: 'related course material to real life situations' (4.92), 'helped students to interpret subject matter from diverse perspectives (e.g., different cultures, religions, genders, political views)' (4.85), 'encouraged students to use multiple resources to improve understanding' (4.77), 'demonstrated the importance and significance of the subject matter' (4.77), and 'encouraged students to reflect on and evaluate what they have learned' (4.77). Overall, students provided quantitative and qualitative responses in the course evaluations, referring to teaching styles used and course content.

Students also gave course feedback through reflective assignments, which demonstrated self-examination related to health disparities-related course content and perceived insights gained from the course (Table 3). Furthermore, feedback from teaching observations were positive. Comments provided an opportunity to discuss feedback with the Department Head and members of tenure committees.

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Table 3. Excerpts from Students' Reflective Assignments (Cultural Diversity & Competence in Public Health Practice course)

	Most Important	Why Concepts are	How You Plan to Use
~ -	Concept Learned	Important to You	Concepts
Student	"I feel the three most	"The whole purpose of	"My goal is to become a
1	important concepts I	community education is to	community health
	have learned in this	change behavior for the	educator, because of this
	course are culturally	best health outcome. If the	class, I am more aware of
	appropriate materials	material is not appropriate	the importance of health
	and health literacy,	for the group or the health	literacy and how to
	cultural competence,	educator doesn't	develop culturally
	and health disparities."	understand the group,	appropriate materials.
		there may be little to no	This class has taught me
		change in the health	the various factors that
		behavior. Health	pertain to health literacy
		disparities exist	and I realize now that is
		everywhere and affect	more than just language".
		people that you may not	
		even think of."	
Student	"The first concept I	"These concepts are	"I could use this
2	learned from this course	important to me as more	knowledge in my dental
	is cultural competency.	diverse students are	career with
	The second concept I	attending our University,	communicating with
	learned was the	and dental hygiene	diverse students and
	importance of	program."	patients in private
	appropriate cultural		practice."
	communication. The		
	third concept I learned		
	is the importance of		
	health literacy with the		
G. T	aging population."		(25 : 6 : 1:1:
Student	"There were several	"Understanding the	"Moving forward within
3	concepts within this	different cultural	my career, I hope to be
	course that I found to	backgrounds and how to	able to work outside of the
	be valuable. The	communicate within them	clinical practiceand
	importance of cultural	is key in enhancing trust	utilize my skills to help
	and linguistic	and establishing a	create awareness and
	competence,	valuable relationship to	opportunities for
	communication within	my patients."	individuals (especially
	health promotion		children and maternal
	programs, and the		populations) to have
	concepts around social		access toprograms and

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	Most Important	Why Concepts are	How You Plan to Use
	Concept Learned	Important to You	Concepts
Student 4	determinants are what I found to be the most important. These three areas have provided me insight into being more aware of different backgrounds and to not pass judgement or to make assumptions."  "The importance of cultural competence in public health, how health disparities affect different ethnic and cultural groups, and what factors contribute to health disparities".	"These concepts are important to me, because I would like to have a career in public healthI can take this information with me to understand how I can help people with different cultures and make them feel comfortable while receiving health care in our country."	"I plan to apply these concepts to develop new programs to promote better health care for less fortunate communities and groups of people."
Student 5	"One of the most important concepts I have learned in [course] are the implications of changing demographics in the US for healthcare providers.  Another important concept I have learned in this course are the social determinants to health. One last important concept I have learned from this course is the use of theoretical models such as the PEN-3 model, and Purnell Model."	"Changing demographics proves a need to become more culturally competent in order to reach specific populations and provide quality care. It is important for me to understand the social determinants of health among various population groups in order to create an effective intervention program for those groups."	"I plan to use all of these concepts moving forward when considering intervention planning, implementing, and evaluation strategies."

	Most Important	Why Concepts are	How You Plan to Use
	Concept Learned	Important to You	Concepts
Student	"The most important	"As someone who studied	"I will use the fact that
6	concepts I learned are	dietetics in college, I	social issues should be
	that health professionals	always thought that diet	addressed before
	should focus on social	and exercise are the keys	addressing diet and
	issues instead of only	to good health, but health	exercise in all future child
	diet and exercise, the	is more complex than that.	obesity interventions I
	Latino Paradox, and	The idea that social issues	work on or develop."
	health disparities. I also	should be addressed	
	really enjoyed learning	before addressing diet and	
	about the different	exercise challenges my	
	ethnic and racial groups	basic belief that education	
	in the United States."	solves everything."	
Student	"The three most	"These topics of religion,	"I plan to use these skills
7	important concepts that	socioeconomic status and	that I have gained not only
	I have learned through	understanding different	in my future career but
	taking this course is, the	cultures are important to	also in everyday life. I feel
	importance of utilizing	me because not only do	that at times, I have a
	a [populations'] religion	these concepts contribute	tendency to become
	integrated with their	to my degree in Public	wrapped up in my own
	healthcare, the	Health but they are vital to	beliefs rather than trying
	encompassing thought	communicating to	to understand the other
	process of health care	individuals in everyday	side."
	providers dealing with a	life. As stated before,	
	variety of cultures and	religion [has] always	
	maximizing health and	fascinated me and through	
	the application of	this course I have learned	
	socioeconomic status	certain tidbits of	
	and health."	information pertaining to	
		certain groups."	
Student	"The first item that I	"This is important to me	"Treating everyone the
8	felt was important that I	because I will be more	same will not have a
	learned in this course is	aware and conscious of	positive effect for their
	how you can predict a		-
	•		_
	1	· ·	
		• •	_
	-	I =	
	how you can predict a life expectancy based on the resources you have available. The second item I felt was important was how you need to research and investigate cultures you are working with to	this when giving care to my patients. I will consider this not only with my patients but also in everyday life. At the same time, you can't assume everyone in one culture is the same with the same values and beliefs. We	health. I will treat my patients as individuals and give them the time they need to provide holistic care."

	Most Important	Why Concepts are	How You Plan to Use
	Concept Learned	Important to You	Concepts
	identify their needs,	need to talk to our patients	
	provide proper care and	and identify their	
	connect with them. The	individual needs, beliefs	
	third item I felt was	and values."	
	important was don't		
	assume anything with a		
	culture."		
Student	"Three important	"These concepts, though	"being culturally
9	concepts I learned	very similar to each other,	competent in creating a
	through this course is to	are important to me	program that could be
	design culturally	because I have a strong	applicable within the
	competent programs	desire to help create	entire state of Michigan
	along with being	programs to reduce the	would be important."
	culturally competent	prevalence or ideally	
	myself. Another	eliminate childhood	
	concept I learned was	obesity."	
	about the		
	cultural assessment		
	framework and the PEN		
	-3 model both used to		
	help design health		
	education programs. A		
	third concept that I was		
	reminded of was an		
	individual can identify		
	with any group they		
	feel comfortable with		
	and because of this as a		
	health educator it is		
	imperative to [be]		
	accepting and		
	competent of all		
	cultural [groups] and		
	open to adapting a		
	program to best suit that		
	particular group."		
Student	"This course has really	"With the diversity of the	"Working at a university,
10	made me realize how	United States, its	I work with a diverse
	many factors are	communities, and its	group of students on a
	involved in becoming a	schools growing rapidly,	regular basis. I believe I
	culturally competent		can employ much of what

	Most Important	Why Concepts are	How You Plan to Use
	Concept Learned	Important to You	Concepts
	health provider. Understanding the culture, heritage, family values, religion, and spirituality of different racial and ethnic groups truly is crucial in being able to achieve the best possible health outcomes. I also gained a great deal of knowledge regarding health disparities. I did not realize the extent of health disparities in the United States. The extent of the challenges that immigrants face after migrating to American is another concept discussed in the	this information is increasingly important."	I've learned in this class immediately to my current job."
Student 11	course that made an impact."  "One important concept that I have learned is that health educators must be aware of differences existing between and among racial and ethnic groups in the U.S. to decrease adverse health consequences and help promote health equity. I was also unaware of the different factors that contribute to health disparities among individuals for example religion, sexual orientation, SES, age,	"The three items listed above are important to [me] because I need to understand and learn that differences exist among people and among other racial groups that are different from my own."	"I plan to use the concepts that I have learned in this class to promote health equity and to provide culturally appropriate care to individuals."

	Most Important	Why Concepts are	How You Plan to Use
	Concept Learned	Important to You	Concepts
Student 12	mental health, and geographic location. I have also learned thatto address the role of culture in disease prevention and health promotion we need to utilize the Purnell Model for Cultural Competence or the PEN-3 Model."  "The three important concepts I learned during this course were 1) The significance of cultural competency and its importance to	"As a health professional, I can apply these concepts to real-world practice. Additionally, I understand more deeply the importance of providing primary prevention	"Before I plan any intervention in any community, I will determine the needs for cultural and linguistic competence. I will use specific
	importance to healthcare organizations and public health education, 2) Recognizing the need for cultural and linguistic competence and inspecting cultural factors in the planning and implementation of culturally appropriate program, and 3) The usage of guidelines for effective communication and cultural competence in planning health	primary prevention programs for older adult populations, and cultural competence programs for aging minority older adults."	I will use specific guidelines for effective communications in health education programs. I will examine cultural factors in the planning and implementation of culturally appropriate program in our community."
Cturd and	education programs."	"These concents are	"From horo or out I al-
Student 13	"The first concept I found important was,	"These concepts are important to me because I	"From here on out, I plan to continue educating
13	you must consider	am a Public Health Nurse.	myself on effective and
	culture when creating	I mostly work with	culturally appropriate
	an education program.	mothers and infants.	education methods to be
	What works for one	However, these mothers	

Most Important	Why Concepts are	How You Plan to Use
Concept Learned	Important to You	Concepts
culture may not be	are from different	more effective in my
effective in another.	cultures, races, and age	professional role."
The second concept I	groups. I need to know	
found important was,	how to educate them in a	
not only does culture	way that is effective. Also,	
and race play a role in	with the population I work	
education but age does	with,	
as well. The third	I see a lot of preterm	
concept I found	births. It was good for me	
important was, African	to research the risk factors	
Americans have a	for preterm birth."	
higher risk for preterm		
birth over whites."		

#### Themes

After data analysis, the following sub-themes emerged:

Value for diversity and cultural competence: Among participants, there seemed to be a value for learning about different cultures, developing cultural competence, and applying insights to current practice. Through statements about, "the implications of changing demographics in the US for healthcare providers", the "thought process of health care providers dealing with a variety of cultures", and how "health educators must be aware of differences existing between and among racial and ethnic groups in the U.S.", there appeared to be an interest in healthcare professionals understanding the populations they are working with and a desire to better understand how people get to where they are.

Challenge of pre-existing beliefs: Responses suggest that teachings encouraged participants to challenge their pre-existing notions. Comments about a previous "belief that education solves everything", on how "I need to understand and learn that differences exist among people and among other racial groups that are different from my own", that "I always thought that diet and exercise are the keys to good health, but health is more complex than that", and on how "you can't assume everyone in one culture is the same with the same values and beliefs" indicate that students took ownership of their learning, thought critically, and examined pre-existing assumptions they held.

Desire to apply knowledge to practice: Participants came from various professions, including Dental Hygiene, Nursing, and Public Health. Reflections suggest that participants had plans to apply new knowledge and skills to program development and effective communication. This was evidenced in comments that "I am more aware of the importance of health literacy and how to develop culturally appropriate materials", on "communicating with diverse students and patients in private practice", and on a "plan to apply these concepts to develop new programs to promote better health care for less fortunate communities".

#### **DISCUSSION**

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To keep online students engaged and feeling part of a learning community, a faculty member used group discussions, case studies, interactive lectures, and multimedia materials to teach about health disparities in an online graduate public health course. Assessment methods were also designed to align with course learning outcomes. Moreover, course goals were connected to the ultimate objective of increasing motivation for learning and satisfaction with the course among students. This can help with student retention, and is critical because this course is within a newly launched Public Health program at a rural university. This university's program curriculum concentrates on the special population health needs of rural communities. Thus, it is important to highlight rural health disparities in our courses. For example, the incorporation of a lecture on LGBTQ health disparities in this course is meaningful because LGBTQ health disparities may be heightened and stigmatized in rural populations (Whitehead, Shaver, & Stephenson, Efforts to improve curriculum design and delivery can help meet program goals of preparing students to address the needs of underserved populations. Various learner-centered teaching strategies were incorporated. Learner-centered teaching also acknowledges the importance of cognitive strategies such as reflective writing and self-assessments to increase students' self-efficacy, empower them in their studies, and promote deeper learning and greater academic achievement (Svinicki, 2004; Young & Fry, 2008).

Faculty development programs were instrumental in inspiring and supporting a faculty member's efforts to employ intentional instructional approaches and collect data on student learning about health disparities. Successful development of faculty can be described as an ongoing, intentional and meticulous process (Guskey, 2000). Opportunities to enhance faculty teaching and student learning can encourage faculty to stimulate critical thinking, active learning, problem-solving, and collaboration among students (Weimer, 2013). Furthermore, some faculty shared insights gained from professional development programs with the university and larger community at forums such as a new faculty orientation, a health professions best practices day, a university conference on aging, and a regional diversity-guided education conference. potentially widened the impact of the faculty development programs. Also noteworthy is that some faculty participated in professional development programs that aimed to enhance the careers of underrepresented junior and mid-level faculty, and encourage the conduct of health disparities research. Such programs have been shown to increase the capacity for faculty to engage in health disparities research, scholarship and practice; these programs have also helped underrepresented faculty advance their careers (Daley, Broyles, Rivera, & Reznik, 2009; Berget et al., 2010; Butler et al., 2017).

The increase in mean scores for several survey items from pre- to post-survey was noteworthy and suggested course content promoted an increased awareness of health disparities among students. Study results showed that there was a statistically significant increase in scores among students age 25-44 years old, which is notable when considering adult learners over age 24 represent one of the fastest growing age group of students (Hussar & Bailey, 2011). There were also statistically significant increases between the baseline and follow-up scores among urban residents, rural residents, and full-time workers. Interestingly, there was a slight decrease in reported interest in health promotion and education, from pre-survey to post-survey. However, the result was not statistically significant. A possible theory for the slight decrease in scores may

be that students possibly felt overwhelmed or disheartened by the course material. One way to temper this may be to highlight successful initiatives to address health disparities.

Furthermore, IDEA score averages in the course were positive and verified effectiveness at achieving course objectives and learning outcomes, and promoting a learner-centered environment. Higher ratings indicate greater student progress and more positive student experience (IDEA, 20017). The IDEA evaluation scores also suggest the instructor successfully utilized instructional strategies. It is important to promote student satisfaction with learning and school as program graduates prepare to advance their careers. In their reflective assignments, students demonstrated keen introspection, and reported new knowledge about health disparities. Reflection entries indicated that students were receptive to the opportunity to learn about, and consider solutions to address health disparities. Reflective assignments have been shown to influence students' self-awareness and motivate their questioning regarding pre-conceived notions (Isaac, Behar-Horenstein, Lee, & Catalanotto, 2015).

Despite the positive impact of the course on student knowledge and attitudes about health disparities, this study had some limitations. We must be cautious with any conclusions drawn from this small pilot study. First, we lacked a control group and had a small sample size, as enrollment in this course was capped at 20 students. Our sample contained only females. Therefore, results may not be generalizable to larger populations. This study can be repeated on a larger, more diverse sample to determine if instructional strategies achieve similar effects. Second, selection bias may be an issue because this course is required for graduate Public Health majors at the university. Students may have been more interested in taking this course as a result. Third, this course was delivered by one faculty member and in one section of the course, potentially biasing the findings. Nonetheless, the statistically significant changes in students' health disparities-related perceptions suggest a positive effect on health professions students' knowledge and attitudes. The survey yielded a high response rate and student feedback regarding the course experience was positive. Although findings are from one Public Health program at a rural Midwestern U.S. university, they may offer some interesting insights and suggest need for additional research. **Future Directions** 

Future pedagogical directions can also include incorporating community-based participatory research and academic service learning to promote student engagement in the community, provide reflection opportunities on contextual factors affecting health, apply course concepts to real-world settings, and enhance cultural competence among students (Metcalf & Sexton, 2014; McElfish et al., 2015; Sabo et al, 2015). We should also consider collaborative efforts with other health profession disciplines (e.g. Nursing, Pharmacy, Dental Hygiene) as well as non-health disciplines (e.g. Education, Social Work) to share resources and develop health disparities-related course content and collective projects, to assemble a wider set of future stakeholders to commit to eliminating health disparities (Benabentos et al., 2014). Instructors should also consider mid-semester formative assessments of students' learning experiences within such online courses. For instance, student impediments in online learning may include uneasiness about a shift from traditional lecture format to narrated lectures, experience navigating the online classroom, and the volume of preparation required outside of class (Crews & Butterfield, 2014).

Mid-semester assessments may allow instructors to identify and address any student concerns

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during the course. Moreover, teaching online can also be an adjustment for the instructor, as it may require a shift from presenter to facilitator. It may take considerable time to develop learning activities to engage students, and students may have difficulty completing the necessary preparation for these activities (Simpson & Richards, 2015). Therefore, instructors should also assess effect of the course on their personal and professional development, and apply lessons learned into future teachings of the course. While this paper focuses on one faculty member's application of development programs to enhance teaching and student learning, future efforts should examine the experiences of more faculty members within the program.

#### **CONCLUSION**

In summary, disparities in healthcare outcomes is one of the crucial current Public Health concerns (Benabentos et al., 2014). Furthering awareness of factors contributing to healthcare disparities can also allow students to contextualize current societal issues that affect health. Developing culturally competent learners and increasing their awareness of health disparities may help to alleviate this issue. Awareness of health disparities may encourage students to consider addressing these issues in the educational, research or practice pursuits (Vela et al, 2010). Implications for teaching about health disparities in online public health education include that it promotes applied learning, a more effective learning experience, and appreciation for cultural diversity that is crucial to developing world-class public health leaders (Banerjee and Firtell, 2017). Additional research is encouraged on other online undergraduate and graduate Public Health programs to expand on these findings about the benefits of promoting health disparities awareness among online college students.

#### **REFERENCES**

- Adam, J.E. (2008). Transcultural nursing courses online: implications for culturally competent care. *The Nursing Clinics of North America*, 43(4):567-74, vi. doi: 10.1016/j.cnur.2008.06.006.
- Adelman, L., Herbes-Sommers, C., Smith, L., & Crawford, J. (2008). *Unnatural causes: Is inequality making us sick?*. San Francisco, CA: California Newsreel.
- Allen, I. E., & Seaman, J. (2011). *Going the distance: Online education in the United States*. Babson Survey Research Group and Quahog Research Group, LLC. Retrieved from <a href="https://files.eric.ed.gov/fulltext/ED529948.pdf">https://files.eric.ed.gov/fulltext/ED529948.pdf</a>
- Arias, E., Heron, M., & Xu, J. Q. (2016). United States life tables, 2012. *National Vital Statistics Reports*, 65(8), 1-68. Retrieved from <a href="https://www.cdc.gov/nchs/data/nvsr/nvsr65/nvsr65\_08.pdf">https://www.cdc.gov/nchs/data/nvsr/nvsr65/nvsr65\_08.pdf</a>.
- Banerjee S and Firtell J (2017). Pedagogical models for enhancing the cross-cultural online public health learning environment. *Health Education Journal* 76(5): 622-631.
- Bariola, E., Lyons, A., Leonard, W., Pitts, M., Badcock, P., & Couch, M. (2015). Demographic and psychosocial factors associated with psychological distress and resilience among transgender individuals. *American Journal of Public Health*, 105(10), 2108-2116.

- 35 Teaching about Cultural Competence and Health Disparities in an Online Graduate Public Health Course Njoku and Baker
- Batada, A. (2018). Utilizing contemplative practices with undergraduate students in a community-engaged course on health disparities. *Pedagogy in Health Promotion: The Scholarship of Teaching and Learning*, 4(1) 71–76. doi: 10.1177/2373379917697992
- Benabentos, R., Ray, P., & Kumar, D. (2014). Addressing health disparities in the undergraduate curriculum: An approach to develop a knowledgeable biomedical workforce. *CBE Life Sciences Education*, 13, 636-640. doi: 10.1187/cbe.14-06-0101
- Berget, R. J., Reynolds III, C. F., Ricci, E. M., Quinn, S. C., Mawson, A. R., Payton,...Thomas, S. B. (2010). A plan to facilitate the early career development of minority scholars in the health sciences. *Social Work in Public Health*, 25(6), 572-590. doi:10.1080/19371911003748174.
- Betancourt, J.R., Green, A., R., Carrillo, J.E., & Ananeh-Firempong, O. (2003). Defining cultural competence: A practical framework for addressing racial/ethnic disparities in health and health care. *Public Health Reports*, 118: 293-202. doi:10.1093/phr/118.4.293
- Blair, I. V., Steiner, J. F., & Havranek, E. P. (2011). Unconscious (implicit) bias and health disparities: Where do we go from here? *The Permanente Journal*, 15(2), 71–78.
- Blumberg, P. (2008). *Developing learner-centered teachers: A practical guide for faculty*. San Francisco, CA: Jossey-Bass.
- Boscardin, C.K. (2015). Reducing implicit bias through curricular interventions. *Journal of General Internal Medicine*. 2015;30(12):1726-1728. doi:10.1007/s11606-015-3496-y.
- Butler, J., Fryer, C. S., Ward, E., Westaby, K., Adams, A., Esmond, S. L., ... & Thomas, S. B. (2017). The Health Equity Leadership Institute (HELI): Developing workforce capacity for health disparities research. *Journal of Clinical and Translational Science*, 1(3), 153-159.
- Centers for Disease Control and Prevention. (2011). Surveillance of health status in minority communities—Racial and Ethnic Approaches to Community Health Across the U.S. (REACH U.S) Risk Factor Survey, United States, 2009. *Morbidity & Mortality Weekly Report (MMWR) Supplement*, 60 (6), 1-44.
- Centers for Disease Control and Prevention. (2000). Measuring healthy days: population assessment of health-related quality of life. Atlanta, GA: US Department of Health and Human Services. Retrieved from http://www.cdc.gov/hrqol/pdfs/mhd.pdf
- Conrad, R.-M., & Donaldson, J.A. (2012). Continuing to engage the online learner: more activities and resources for creative instruction. San Francisco, CA: Wiley: Jossey-Bass. ISBN: 978-1-118-00017-5
- Crews, T., & Butterfield, J. B. (2014). Data for flipped classroom design: Using student feedback to identify the best components from online and face-to-face classes. *Higher Education Studies*, 4(3), 38.
- Cushman, L. F., Delva, M., Franks, C. L., Jimenez-Bautista, A., Moon-Howard, J., Glover, J., & Begg, M. D. (2015). Cultural competency training for public health students: Integrating self, social, and global awareness into a master of public health curriculum. *American Journal of Public Health*, 105(S1), S132-S140.
- Daley, S. P., Rivera, L. M., & Reznik, V. M. (2009). Increasing the capacity of health sciences to address health disparities. *Journal of the National Medical Association*, 101(9), 881.

Journal of Health Disparities Research and Practice Volume 12, Issue 2, Summer 2019 <a href="http://digitalscholarship.unlv.edu/jhdrp/">http://digitalscholarship.unlv.edu/jhdrp/</a>

- 36 Teaching about Cultural Competence and Health Disparities in an Online Graduate Public Health Course Njoku and Baker
- Daugherty, H.N., & Kearney, R.C. (2017). Measuring the impact of cultural competence training for dental hygiene students. *Journal of Dental Hygiene*, 91(5):48-54.
- Della Ratta, C. B. (2015). Flipping the classroom with team-based learning in undergraduate nursing education. *Nurse Educator*, 40(2), 71-74.
- Eberhardt, M.S., & Pamuk, E.R. (2004). The importance of place of residence: Examining health in rural and nonrural areas. *American Journal of Public Health*, 94(10), 1682–1686.
- Elias, T. I., Williams, K. R., Hershey, T. B., Documet, P. I., Barinas-Mitchell, E., & Gary-Webb, T. (2017). The Health Equity Certificate Program: A targeted approach to reducing health disparities and increasing the competence of health professional students. *Pedagogy in Health Promotion*, *3*(3), 187-194.
- Evans, L., & Hanes P.J. (2014). Online cultural competency education for millennial dental students. *Journal of Dental Education*, 78(6):867-75.
- Felder, R.M. & Brent, R. (1999). Active learning vs. covering the syllabus and dealing with large classes. *Chemical Engineering Education*, *33*(4), 276 277.
- Fortier, J.M., January, S., & Public Broadcasting Service (U.S.). (2008). *Unnatural causes: Bad sugar*. San Francisco, CA: California Newsreel.
- Friedman, J. (2018, January 11). Study Says Enrollment in Online Courses Is Rising. Retrieved from <a href="https://www.usnews.com/higher-education/online-education/articles/2018-01-11/study-more-students-are-enrolling-in-online-courses">https://www.usnews.com/higher-education/online-education/articles/2018-01-11/study-more-students-are-enrolling-in-online-courses</a>
- Gilboy, M. B., Heinerichs, S., & Pazzaglia, G. (2015). Enhancing student engagement using the flipped classroom. *Journal of Nutrition Education and Behavior*, 47(1), 109-114.
- Guskey, T. (2000). Evaluating professional development. Thousand Oaks, CA: Corwin Press.
- Gutierrez, C. S., & Wolff, B. (2017). Using Photovoice with undergraduate interprofessional health sciences students to facilitate understanding of and dialogue about health disparities within communities. *Pedagogy in Health Promotion: The Scholarship of Teaching and Learning*, 3(1) 42–49. doi: 10.1177/2373379915627670
- Hartley D. (2004). Rural health disparities, population health, and rural culture. *American Journal of Public Health*, 94(10), 1675–1678.
- Healthy People 2020 [Internet]. Washington, DC: U.S. Department of Health and Human Services, Office of Disease Prevention and Health Promotion. Retrieved from <a href="https://www.healthypeople.gov/">https://www.healthypeople.gov/</a>
- Hillman, D.C., Willis, D. J., & Gunawardena, C. N. (1994). Learner-interface interaction in distance education: An extension of contemporary models and strategies for practitioners. *The American Journal of Distance Education*, 8(2), 31-42.
- Hussar, W. J. & Bailey, T. M. (2011). *Projections of education statistics to 2020* (NCES 2011-026). U.S. Department of Education, National Center of Education Statistics. Retrieved from the National Center of Education Statistics website: <a href="http://nces.ed.gov/pubs2011/2011026.pdf">http://nces.ed.gov/pubs2011/2011026.pdf</a>.
- IDEA. (2017). Retrieved from <a href="http://www.ideaedu.org/">http://www.ideaedu.org/</a>
- Isaac, C., Behar-Horenstein, L., Lee, B., & Catalanotto, F. (2015). Impact of reflective writing assignments on dental students' views of cultural competence and diversity. *Journal of Dental Education*, 79(3):312-21. PMID: 25729025

- 37 Teaching about Cultural Competence and Health Disparities in an Online Graduate Public Health Course Njoku and Baker
- Jarris, Y.S., Bartleman, A., Hall, E.C., & Lopez, L. (2012). A preclinical medical student curriculum to introduce health disparities and cultivate culturally responsive care. Journal of the National Medical Association, 104(9-10):404-11. https://doi.org/10.1016/S0027-9684 (15)30193-0
- Joint Committee on Health Education Terminology. (2012). Report of the 2011 Joint Committee on Health Education and Promotion Terminology. *American Journal of Health Education*, 43(2), 1-19. https://doi.org/10.1080/19325037.2012.11008225
- Knowles, M. S. (1984). Andragogy in action. San Francisco, CA: Jossey-Bass Publishers.
- Lancaster, J. W., Stein, S. M., MacLean, L. G., Van Amburgh, J., & Persky, A. M. (2014). Faculty development program models to advance teaching and learning within health science programs. *American Journal of Pharmaceutical Education*, 78(5), 99.
- Maldonado, M.E., Fried, E.D., DuBose., T.D., Nelson, C., & Breida, M. (2014). The role that graduate medical education must play in ensuring health equity and eliminating health care disparities. *Annals of the American Thoracic Society*, 11(4):603-7. doi:10.1513/AnnalsATS.201402-068PS.
- Locatis, C., Gaines, C., Liu, W. L., Gill, M., & Ackerman, M. (2015). Lessons learned from ten years of distance learning outreach. *Journal of the Medical Library Association: JMLA*, 103(2), 78-82.
- MarylandOnline. (2014). COAT: Certificate for Online Adjunct Teaching. Retrieved from <a href="http://marylandonline.org/coat/">http://marylandonline.org/coat/</a>
- McElfish, P.A., Kohler, P., Smith, C., Warmack, S., Buron, B., Hudson, J.,...Rubon-Chutaro, J. (2015). Community-driven research agenda to reduce health disparities. *Clinical and Translational Science*, 8(6):690-5. doi: 10.1111/cts.12350. Epub 2015 Nov 17.
- Meit, M., Knudson, A., Gilbert, T., Yu, AT-C., Tanenbaum, E., Ormson, E.,...Walsh Center for Rural Health Analysis. (2014). The 2014 Update of the Rural-Urban Chartbook [Internet]. Retrieved from: <a href="https://ruralhealth.und.edu/projects/health-reform-policy-research-center/pdf/2014-rural-urban-chartbook-update.pdf">https://ruralhealth.und.edu/projects/health-reform-policy-research-center/pdf/2014-rural-urban-chartbook-update.pdf</a>
- Metcalfe, S.E., & Sexton, E.H. (2014). An academic-community partnership to address the flu vaccination rates of the homeless. *Public Health Nursing*, 31(2), 175-82. doi: 10.1111/phn.12088
- Meyer, P.A., Yoon, P.W., & Kaufmann, R.B. (2013). Introduction: CDC Health Disparities and Inequalities Report United States, 2013. Morbidity & Mortality Weekly Report (MMWR) Supplement, 62, 3, 3-5.
- Meyers, S.A. (2008). Using Transformative Pedagogy When Teaching Online. College Teaching, 56, 4, 219-224. doi: 10.3200/CTCH.56.4.219-224.
- Moore, M. G. (1989). Three types of interaction. American Journal of Distance Education, 3(2), 1-6.
- Perez, M. A., & Luquis, R.R. (2014). *Cultural competence in health education and health promotion*. (2nd edition). San Francisco, CA: John Wiley & Sons, Inc.
- Purnell, L. (2002) The Purnell Model for Cultural Competence. *Journal of Transcultural Nursing*, 13(3): 193-196.
- Rios, P.G., Rodriguez, M.T., & Public Broadcasting Service (U.S.). (2008). *Unnatural causes: Becoming American*. San Francisco, CA: California Newsreel.

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- 38 Teaching about Cultural Competence and Health Disparities in an Online Graduate Public Health Course Njoku and Baker
- Rogers, P. C., & Wang, M. (2009). Cross-cultural issues in online learning. In *Encyclopedia of Distance Learning*, *Second Edition* (pp. 527-536). IGI Global.
- Rose, P.R. (2013). *Cultural competency for the health professional*. Burlington, MA: Jones & Bartlett Learning. ISBN 978-1-4496-7212-6.
- Sabo, S., De Zapien, J., Teufel-Shone, N., Rosales, C., Bergsma, L., & Taren, D. (2015). Service learning: A vehicle for building health equity and eliminating health disparities. *American Journal of Public Health*, 105(S1), S38-S43.
- Shaya, F. T., & Gbarayor, C. M. (2006). The Case for Cultural Competence in Health Professions Education. *American Journal of Pharmaceutical Education*, 70(6), 124.
- Simpson, V., & Richards, E. (2015). Flipping the classroom to teach population health: Increasing the relevance. *Nurse Education in Practice*, *15*(3), 162-167.
- Stavredes, T. (2011) Effective online teaching: foundations for strategies and success. San Francisco, CA: John Wiley and Sons, Inc.
- Stott, A., & Mozer, M. (2016). Connecting learners online: Challenges and issues for nurse education—Is there a way forward? *Nurse Education Today*, 39, 152-154. doi: https://doi.org/10.1016/j.nedt.2016.02.002
- Svinicki, M.D. (2004). Learning and motivation in the postsecondary classroom. Boston: Anker Publishing Company.
- U.S. Census Bureau. (2014). *Projected Components of Change by Race and Hispanic Origin for the United States: 2015 to 2060*. Retrieved from <a href="https://www.census.gov/data/tables/2014/demo/popproj/2014-summary-tables.html">https://www.census.gov/data/tables/2014/demo/popproj/2014-summary-tables.html</a>
- U.S. Department of Health and Human Services. (2008). The Secretary's Advisory Committee on National Health Promotion and Disease Prevention Objectives for 2020. Phase I report: Recommendations for the framework and format of Healthy People 2020 [Internet]. Section IV: Advisory Committee findings and recommendations. Retrieved from <a href="http://www.healthypeople.gov/sites/default/files/PhaseI\_0.pdf">http://www.healthypeople.gov/sites/default/files/PhaseI\_0.pdf</a>.
- Van Ryn, M., Hardeman, R., Phelan, S. M., Burgess, D. J., Dovidio, J. F., Herrin, J., ... Przedworski, J. M. (2015). Medical school experiences associated with change in implicit racial bias among 3547 Students: A Medical Student CHANGES Study report. *Journal of General Internal Medicine*, 30(12), 1748–1756. http://doi.org/10.1007/s11606-015-3447-7
- Vela, M.B., Kim, K.E., Tang, H., & Chin, M.H. (2010). Improving underrepresented minority medical student recruitment with health disparities curriculum. *Journal of General Internal Medicine*, 25, S82–S85. *doi:* 10.1007/s11606-010-1270-8.
- Weimer, M. (2013). *Learner-centered teaching: Five key changes to practice* (2<sup>nd</sup> ed.). San Francisco: Jossey-Bass.
- Whitehead, J., Shaver, J., & Stephenson, R. (2016). Outness, stigma, and primary health care utilization among rural LGBT populations. *PLoS One*, 11(1): e0146139. doi:10.1371/journal.pone.0146139
- White-Means, S., Dong, Z., Hufstader, M., & Brown, L. T. (2009). Cultural competency, race, and skin tone bias among pharmacy, nursing, and medical students: implications for addressing health disparities. *Medical Care Research and Review*, 66(4), 436-455. doi: 10.1177/1077558709333995

Young, A. & Fry, J.D. (2008). Metacognitive awareness and academic achievement in college. *Journal of the Scholarship of Teaching and Learning*, 8(2), 1-10.