

A Narrative Review of Ethnic Minority Studies for Faith-Based Health Promotion

Interventions with special reference to the contemporary Christian nurse

Authorship

Lisa A. Blankinship PhD ¹; William A. Rouse RN, BSN ²; Joshua Bernstein PhD, CHES ³;
Joanna Kruk PhD ⁴; Basil H. Aboul-Enein EdD, FACN, FRSPH ⁵

Affiliation

¹ Department of Biology
University of North Alabama
1 Harrison Plaza
Florence, AL, USA
Email: lblankinship@una.edu

² Anderson College of Nursing and Health Professions
University of North Alabama
Florence, AL 35632
E-mail: warouse@una.edu

³ A.T. Still University of Health Sciences
College of Graduate Health Studies
800 W. Jefferson St.
Kirksville, MO 63501 USA
E-mail: jbernstein@atsu.edu

⁴ University of Szczecin
Faculty of Physical Culture and Health Promotion
Al. Piastów 40b/6
71-065 Szczecin
Poland
E-Mail: joanna.kruk@univ.szczecin.pl

⁵ London School of Hygiene & Tropical Medicine
Faculty of Public Health and Policy
15-17 Tavistock Place
London
WC1H 9SH
United Kingdom
E-mail: Basil.Aboul-Enein@lshtm.ac.uk

Address correspondence and reprint requests to:

Basil H. Aboul-Enein

London School of Hygiene & Tropical Medicine

Faculty of Public Health and Policy

15-17 Tavistock Place

London

WC1H 9SH

United Kingdom

E-mail: Basil.Aboul-Enein@lshtm.ac.uk

1
2
3
4 **A Narrative Review of Ethnic Minority Studies for Faith-Based Health Promotion**
5
6 **Interventions with special reference to the contemporary Christian nurse**
7
8
9

10 **Abstract**

11
12 Heart disease, Diabetes Mellitus (DM) type 2, and obesity are three of the most prevalent
13 diseases in the United States. Some obesity-related comorbidities are disproportionately higher
14 within African American and Hispanic communities. While governmental and local health
15 programs offer educational opportunities encouraging long-term health behavior changes, the
16 most accessible programs have been through faith-based communities. This narrative review
17 investigates the outcomes of faith-based wellness programs on Latino and African American
18 populations with respect to general health and wellness, obesity management, DM type 2, and
19 hypertension. Perceived authority of faith community nurses, faith leaders, and accountability
20 and encouragement provided by faith communities are critical. Long-term behavior change is
21 positively affected by elements faith-based organizations can provide: Cultural appropriateness,
22 community support, and self-efficacy.
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41

42 **Keywords**

43 Faith-based health education; African American; Christian nursing
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65

Introduction

Why Faith Based Health Programs?

According to data released from the Centers for Disease Control and Prevention (CDC), adult obesity heart disease, and Type 2 diabetes mellitus (DM type 2) are disproportionately high among African American and Hispanic communities (CDC., 2019; Ogden et al., 2017). These conditions are often comorbid and all are associated with a westernized diet high in saturated fats, simple sugars, salt and paired with decreased physical activity (CDC., 2017a, 2017b, 2018; Ogden et al., 2017). Education and income level significantly and adversely affect incidence of disease while government programs have had little immediate or sustained effect on decreasing disease prevalence rates within African American and Hispanic communities.

A 2011-14 National Health and Nutrition Examination Survey suggested obesity rates varied by household income, race, and gender within the United States. Ogden et al. (2017) reports women from middle (42.9%) and low (45.2%) income groups are more likely to struggle with obesity for all ethnic groups outside of African Americans who were equally at risk for obesity regardless of their income level. Additionally, Hales, Carroll, Fryar, and Ogden (2017) found obesity rates among African American women (54.8%) and Hispanic women (50.6%) were significantly higher than Caucasian women (38.0%). New guidelines for the Healthy People 2020 program sets a goal of 30.5% obesity among all U.S. adults (Hales et al., 2017). Education has a key role in reducing risk of obesity regardless of ethnicity (Ogden et al., 2017) and decreases the likelihood of developing DM type 2. According to 2013-15 data provided by the CDC, persons having less than a complete high school education were twice as likely to develop DM type 2 (CDC., 2018). Education may also be used as a socioeconomic indicator; communities with lower education rates are typically lower income (CDC., 2017c). According

1
2
3
4 to the National Diabetes Statistics Report for 2017, 30.3 million or 9.4% of the U.S. population
5
6 currently have DM type 2 with 7.2 million or 23.8% of cases being undiagnosed; Native
7
8 Americans had the highest rate of DM type 2 (15.1%), non-Hispanic African Americans the
9
10 second highest rate (12.7%), and Hispanics had the third highest rate (12.1%). Non-Hispanic
11
12 Caucasians (7.4%) and Asians (8.0%) had low rates of diabetes compared to other racial and
13
14 ethnic groups (CDC., 2017c).
15
16
17

18
19 Each year, approximately 25% of deaths in the United States can be attributed to heart disease
20
21 with over half of Americans possessing one or more risk factors for the development of heart
22
23 disease including alcohol use, diabetes, physical inactivity, obesity/overweight, or poor diet.
24
25 Heart disease is a leading cause of death for African Americans, Caucasians, and Hispanics and
26
27 is the second leading cause of death for Asians, Native Americans, and Pacific Islanders (CDC,
28
29 2018a). According to CDC statistics, African Americans and Caucasians are equally likely to
30
31 die of heart disease (CDC, 2019). As with DM type 2 and obesity, education and
32
33 socioeconomics contribute to the likelihood of developing cardiovascular disease (Degano et al.,
34
35 2017).
36
37
38

39
40 One method for bridging the gap in known methods to improve health and helping to teach and
41
42 motivate people to make necessary lifestyle changes is through the use of faith-based wellness
43
44 programs. While not all congregations are able to provide wellness programs or even to staff a
45
46 full-time faith community nurse to assist parishioners, many faith congregations are able to
47
48 partner with local resources to offer health training and short term (e.g., 4 – 16 week) programs
49
50 with the established goal of helping faith community members to improve their health through
51
52 diet and exercise changes, accountability, and fellowship (Baruth & Wilcox, 2013; Cooper,
53
54 King, & Sarpong, 2015; Wilcox et al., 2018). Because religious texts are viewed as being
55
56
57
58
59
60
61
62
63
64
65

1
2
3
4 authoritative and religious organizations are often able to reach more people across
5
6 socioeconomic barriers, faith community-based organizations are often able to make impacts that
7
8 governmental or medical entities are not (Harmon et al., 2014; Schwingel & Gálvez, 2015). This
9
10 narrative paper investigates the outcomes of faith-based wellness programs on Latino and
11
12 African American populations with respect to general health and wellness (Baruth & Wilcox,
13
14 2013; Hardison-Moody et al., 2011; Harmon et al., 2014; Schwingel & Gálvez, 2015; Wilcox et
15
16 al., 2018), obesity management (Cooper et al., 2015; Gonzalez, Villanueva, & N Grills, 2012; He
17
18 et al., 2013), DM type 2 (Gutierrez et al., 2014; Morales-Alemán, Moore, & Scarinci, 2018), and
19
20 heart disease, specifically hypertension (Dodani, Beayler, Lewis, & Sowders, 2014) and the role
21
22 of the contemporary Christian faith-based nurse.
23
24
25
26
27
28
29
30

31 **Why Faith Based Communities?**

32
33 While governmental agencies and healthcare providers often fail at helping patients achieve
34
35 long-term lifestyle changes, faith-based communities or religious organizations have had greater
36
37 success (Campbell et al., 2007; Cooper et al., 2015; Harmon et al., 2014; Schwingel & Gálvez,
38
39 2015). This article looks primarily at the success of Christian-based organizations and religious
40
41 communities. The role of the faith community nurse has proven essential in providing sound
42
43 guidance for health-based program development, deployment, and faith community member
44
45 advocacy with respect to facing health challenges. Faith community nurses are found within
46
47 Christian faith communities (also known as “parish nurses”), Jewish faith communities, and
48
49 Islamic faith communities (Bard, 2006; Chatters, Levin, & Ellison, 1998). This is most likely due
50
51 to accessibility of resources, a sense of community, and the perceived authority of religious
52
53
54
55
56
57
58
59
60
61
62
63
64
65

1
2
3
4 leaders within the faith community all within a culturally sensitive environment (Campbell et al.,
5
6
7 2007; Gotwals, 2018; Morales-Alemán et al., 2018).

8
9 In addition to teaching resources and support offered by faith community nurses, many faith
10
11 communities offer a food pantry, produce exchange program, or a community garden for
12
13 members in need. These programs offer faith community members fresh produce during
14
15 growing seasons and access to food year-round that does not require government programs that
16
17 may impose guidelines or restrictions on types of foods allowed per person. Governmental
18
19 programs may omit culturally appropriate foods from their permissible food lists (Odoms-Young
20
21 et al., 2014; St Fleur & Petrova, 2014). Faith community sponsored gardens allow members to
22
23 grow or help grow fresh produce for individual use. Participation can develop a sense of
24
25 community by working on a group project, provide exercise for members, and increase
26
27 accountability within the group.
28
29
30
31
32

33 While church leadership is perceived as being authoritative and their support does help promote
34
35 positive health practices with the faith community, it is often the role of a faith community nurse
36
37 that has the greatest effect on individual faith community members. The faith community nurse
38
39 plays a key role in both educating and fostering a community approach to healthcare that is often
40
41 not found outside of faith community settings. Faith community nurses have the ability to reach
42
43 parishioners across age and economic barriers, develop programs specific to the needs of their
44
45 faith community, and ensure regular contact with faith community participants (Gotwals, 2018;
46
47 Gwilt, 1987). Flynn (2001) recognized the impact that a faith community nurse has within their
48
49 faith community as a unique role that emphasizes the relatedness between faith and health and
50
51 promotes positive health practices within the faith community. A model was proposed, based in
52
53 biblical scripture, to help Christians achieve positive health benefits by recognizing their value
54
55
56
57
58
59
60
61
62
63
64
65

1
2
3
4 before God, caring for others, reducing anxiety through faith in God, and maintaining balance
5
6 and moderation in life (See Table 1) (Flynn, 2001).

7
8
9 Anderson (2016) successfully integrated public health messages into a faith-based stroke
10
11 awareness program for African American females to demonstrate the importance of cultural
12
13 relevance. The faith community nurse plays a key role within the faith community by teaching
14
15 and empowering community members to regain and maintain healthy practices.
16
17

18
19 Jewish and Christian health programs have their origins in the Levitical priesthood (Deut. 23:14)
20
21 where priest were involved in setting guidelines for diet, consumption of clean water, waste and
22
23 sewage disposal, control of infectious disease, public cleanliness and nuisance abatement, and
24
25 health education for the religious community (Gwilt, 1987). While public sanitation and
26
27 nuisance abatements are now covered by local government, it is still the role of the faith
28
29 community nurse to promote health education, healthy living, and healthy diet.
30
31

32
33 Since the 2000s, several studies have investigated the success of faith community related studies
34
35 and the special niche that faith community health programs fulfill within the boarder community.

36
37 Church related health programs have focused on general health and wellbeing (Baruth & Wilcox,
38
39 2013; Hardison-Moody et al., 2011; Harmon et al., 2014; Schwingel & Gálvez, 2015; Wilcox et
40
41 al., 2018), obesity management (Cooper et al., 2015; Gonzalez et al., 2012; He et al., 2013), DM
42
43 type 2 management and education (Gutierrez et al., 2014; Morales-Alemán et al., 2018), and
44
45 hypertension (Dodani et al., 2014).
46
47
48
49
50
51
52

53 **Review of the faith-based studies**

54
55 1) General Health and Wellbeing Studies
56
57
58
59
60
61
62
63
64
65

1
2
3
4 Perhaps the single most promoted topic within faith-based organizations is a healthy lifestyle –
5
6 one that includes being *right* with God, a good work ethic, reasonable rest (e.g., on the Sabbath),
7
8 good interpersonal relationships, and good health. Faith-based programs that promote health
9
10 include nutrition education often with an emphasis on increased consumption of fruit and
11
12 vegetables, increased physical activity, and support groups to help increase accountability in
13
14 learning and living out health-promoting lifestyle changes. While larger congregations tend to
15
16 have health ministers and highly promoted programs, several studies from the primary literature
17
18 reflect small initiatives or initiatives across several churches. Faith-based organizations that
19
20 serve African American, Latino, or medically underserved congregants tend to have the greatest
21
22 effect (Baruth & Wilcox, 2013; Schwingel & Gálvez, 2015; Wilcox et al., 2018).
23
24
25
26
27

28 Research in South Carolina investigated the impact of a Faith, Activity, and Nutrition (FAN)
29
30 program among African American churches (Baruth & Wilcox, 2013) and a medically
31
32 underserved community (Wilcox et al., 2018). The 15-month FAN programs provided faith
33
34 community members with education on nutrition and physical activity. All activity was self-
35
36 reported by program participants and focused on four health behavior changes: Increased fruit
37
38 and vegetable intake, decreased fat intake, increased fiber intake, and increase in physical
39
40 activity. Among the African American participants, the most common behavior change was a
41
42 decrease in fat and an increase in fiber intake; however, 31% of study participants positively
43
44 changed at least one behavior, 31% of participants positively changed at least two behaviors,
45
46 13% of participants positively changed at least three behaviors, and 5% of study participants
47
48 were able to achieve a change in all four health behaviors (Baruth & Wilcox, 2013). These
49
50 changes reflect small but successful implementation of behavioral modification that will provide
51
52 health benefits to study participants. Wilcox et al. (2018) report in a medically underserved
53
54
55
56
57
58
59
60
61
62
63
64
65

1
2
3
4 community, the church can provide a positive source for promoting and organizing physical
5 activity and healthy eating messages, especially if such programs are supported by church
6 leadership (Wilcox et al., 2018).
7
8
9

10
11 A similar study in North Carolina, the Faithful Families Eating Smart and Moving More
12 (Faithful Families) program, demonstrates the effect local churches have on low-income
13 congregants. Participants included 941 members across 41 faith-based organizations of which
14 8.1% lacked any high school education; the majority of members were African Americans
15 (70.5%) compared with Caucasians (25%) and Hispanics (1.4%). Most members (71.6%) were
16 overweight or obese and impoverished (62.6% by national 2011 standards) with members
17 suffering from heart disease (7.1%), diabetes (37.1%), high cholesterol (24.3%), and high blood
18 pressure (37.1%). Faithful Families provided multi-level partnerships between the various faith-
19 based organizations, North Carolina Cooperative Extension Service, and the North Carolina
20 Department of Public Health that developed a series of education sessions on nutrition, food
21 resource management, food safety, and physical activity. Results from the Faithful Families
22 program reflected an increase in physical activity (32%), fruit (42%) and vegetable (49%)
23 consumption, and nutrition practices such as food safety, meal planning, and checking food
24 labels (83%) (Hardison-Moody et al., 2011). While governmental programs are important and
25 provide essential funds and resources, the community church is a key stakeholder in providing
26 resources to the people and promoting healthy lifestyle changes through accountability and
27 encouragement.
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51

52
53 The Dash of Faith pilot program (Harmon et al., 2014) investigated the potential benefits of a
54 nutrition education program within two African American churches – one church serving as
55 control group and one as an intervention group. Program goals were to increase fruit and
56
57
58
59
60
61
62
63
64
65

1
2
3
4 vegetable consumption among participants. The 8-month study included 12 weekly classes for
5
6 participants in both churches that provided nutrition education, meal prep workshops with
7
8 provided recipes, guest speakers for selected topics, and participant discussions regarding
9
10 barriers to meeting participant goals. While the control group received lectures and workshops
11
12 provided by the study leaders, the intervention group used local leaders within the African
13
14 American community who had expertise in the topics covered by the Dash of Faith program and
15
16 included monthly potlucks for participants to practice their newly acquired skills in food prep
17
18 and food selection. The intervention group included ten participants while the control group
19
20 included 13; both groups represented similar churches based on health ministry programs,
21
22 facilities, and congregant size. The majority of participants in both cohorts were women many of
23
24 which had only a high school diploma or less education. The outcomes showed the intervention
25
26 group did have a higher fruit and vegetable intake when compared to the control group during
27
28 the second month of the study yet did not retain this lead when compared with the control group
29
30 at months six and eight. There was no significant difference between the intervention and
31
32 control groups with respect to decreased fat consumption (Harmon et al., 2014). These data
33
34 suggest that short term (e.g. two or four month) programs would have the greatest chance of
35
36 success rather than long-term (e.g., eight month) programs. This could in part be due to
37
38 participant bias (Harmon et al., 2014), a decrease in participant motivation, or even life changes
39
40 that derail healthy eating habits of participants.
41
42
43
44
45
46
47
48
49

50 Due to the faith-based organizations being at the core of Hispanic life (Schwingel & Gálvez,
51
52 2015; Villatoro, Dixon, & Mays, 2016; Villatoro, Morales, & Mays, 2014), faith related health
53
54 programs can have an unique effect within the Latino community. Many Hispanics look to their
55
56 faith-based community as a trusted authority figure thus the local faith-based organizations can
57
58
59
60
61
62
63
64
65

1
2
3
4 strongly influence behavior patterns among its parishioners (Schwingel & Gálvez, 2015).

5
6 Abuelas en Acción (AEA) is a Latino community-based health program linked closely with the
7
8 Catholic Church such that health education sessions are tied to Bible readings, church hymns,
9
10 and Catholic teachings. Participants are provided health education in a culturally relevant way
11
12 that promoted both completion of the AEA program and long-term changes to develop a healthy
13
14 lifestyle (Schwingel & Gálvez, 2015).
15
16
17
18
19
20

21 2) Obesity Management

22
23 The highest rates of obesity among Americans occurs within the African American population,
24
25 specifically among African American women (Timmons, 2014). While not true for all African
26
27 Americans, those that practice religion tend to be highly involved within their faith communities
28
29 that act as both a social and religious community cornerstone (Young, Patterson, Wolff, Greer, &
30
31 Wynne, 2014). The local faith-based community meets not only the needs of its congregants but
32
33 also those of the local community by addressing social welfare, educational, health, and social
34
35 justice needs; therefore, the faith-based community plays a key role in promoting good health
36
37 behaviors (Young et al., 2014). Because obesity is linked to higher risks for heart disease, high
38
39 blood pressure, stroke, and diabetes (Cooper et al., 2015), faith community-based weight
40
41 management programs have the potential for high impact in behavioral changes for both
42
43 community and faith community members.
44
45
46
47
48
49

50 Project HEAL (Healthy Eating, Active Lifestyles) and Project TEACH (Transforming,
51
52 Empowering, and Affecting Congregation Health) represent two faith-based community weight
53
54 management programs that promote culturally significant health education (Cooper et al., 2015).
55
56
57 Project HEAL was a 10-week nutrition and physical activity course that encouraged peer
58
59
60
61
62
63
64
65

1
2
3
4 interaction and group sharing as a way of increasing accountability and long-term change among
5
6 participants. By the end of the program, participants experienced an average 1.4% decrease in
7
8 body fat compared to a 1% body fat increase in a control group (Cooper et al., 2015). Likewise,
9
10 Project TEACH was a 12-week study that also focused on nutrition and physical activity
11
12 education. While TEACH utilized a series of education sessions to highlight skills such as
13
14 reading and understanding food labels, food prep demonstrations, and the mental and physical
15
16 health influences on food consumption; it also provided sessions on physical activity and linking
17
18 good eating habits and physical activity to faith (1 Cor 6:9). Project TEACH directly utilized
19
20 faith community nurses to promote health, holistic wellness, and a safe environment through a
21
22 variety of instructional sessions, meal prep demonstrations, and physical activity classes such as
23
24 dance, aerobics, plyometric training, relay games, and yoga. After completing Project TEACH,
25
26 participants showed decreases in circumference measurements (arm, neck, hips, thigh, and
27
28 waist), weight, and BMI. While participants commented on TEACH's enjoyment, the biggest
29
30 take away was positive lifestyle changes had been made (Cooper et al., 2015). Perhaps the most
31
32 important aspect of the HEAL and TEACH projects were that they produced long-term changes
33
34 within participant lives and built and/or strengthened relationships among faith community
35
36 participants that provided additional social interactions and accountability after the program was
37
38 concluded.

39
40
41 Studies that focus strictly on obesity within the adult Hispanic population are rather limited and
42
43 mostly center on community-based efforts. Gonzalez et al. (2012) and He et al. (2013) describe
44
45 the need for education related programs and the development of safe recreation areas especially
46
47 for children. Both recommend a dual approach – better food choices and increased activity for
48
49 Hispanics (Gonzalez et al., 2012; He et al., 2013). While the role of the local faith community in
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65

1
2
3
4 meeting the needs of the Hispanic community is the same as those needs of the African
5
6 American community, there seems to be an approximate one decade lag in church-sponsored
7
8 programs for Latinos.
9

10 11 12 13 14 3) DM Type 2 Management and Education

15
16 DM type 2 is prevalent among all American communities though persons with lower education
17
18 and members of the African American or Hispanic communities tend to have higher rates. The
19
20 prevalence of diabetes within the African American community alone has more than doubled
21
22 since 2000 (Newlin, Dyess, Allard, Chase, & Melkus, 2012). While diabetic education programs
23
24 and federal incentives for offering such programs exist, there are often problems with both
25
26 provider and patient in receiving the information and support necessary to make such programs
27
28 viable. Providers often encounter problems with physical resources (e.g., time, lack of support
29
30 staff, and access to materials that meet current diabetic education standards) and cultural
31
32 resources (e.g., training on how to provide education in a culturally sensitive manner). Patients
33
34 often mistrust healthcare providers and healthcare systems, especially when there is no
35
36 established relationship with providers, and financial barriers (Newlin et al., 2012). Due to
37
38 patient distrust, the CDC and the National Institutes of Health (NIH) recommend and support
39
40 local healthcare providers, community health program leaders, and federal and state program
41
42 coordinators partner with faith-based community leaders to promote education in a culturally
43
44 sensitive manner (Newlin et al., 2012).
45
46
47
48
49
50
51

52
53 Two programs of interest include Healthy Congregations Healthy Communities (HCHC)
54
55 Program sourced in Alabama (Morales-Alemán et al., 2018) and Fine, Fit, and Fabulous (FFF)
56
57 which is set in New York City neighborhoods (Gutierrez et al., 2014). Both programs use
58
59
60
61
62
63
64
65

1
2
3
4 connections with faith-based communities to provide culturally sensitive diabetic education,
5
6 fitness activities, and links to scripture for the African American and Latino populations they
7
8 serve (Gutierrez et al., 2014; Morales-Alemán et al., 2018). The FFF program provided
9
10 education and resources for 183 participants in 15 churches in the Bronx and Harlem, New York,
11
12 who, at the end of the month long program, reported they were better able to judge portion size,
13
14 read and understand food labels, increase activity and exercise, and begin eating fruit daily
15
16 (Gutierrez et al., 2014). The HCHC program offered a unique approach to education by training
17
18 35 faith community leaders within African American churches located in Alabama. Pastors were
19
20 asked to nominate parishioners who would agree to attend training sessions, provide training for
21
22 one year, were interested in healthcare, were effective communicators, and were respected
23
24 members of their local congregations (Morales-Alemán et al., 2018). While members other than
25
26 faith community nurses could be nominated, the faith community nurse was an ideal candidate
27
28 for such training and education program of their local faith community members. Community
29
30 health leaders would receive training in health care access, diabetes education, the Wellness
31
32 Model which includes both physical and spiritual wellness, nutrition, stress management, and
33
34 physical activity. Training not only increased community health leaders' knowledge but also
35
36 increased confidence in their ability to carry out wellness related education sessions within their
37
38 faith-based community (Morales-Alemán et al., 2018).
39
40
41
42
43
44
45
46
47
48
49

50 4) Heart Disease

51
52 Hypertension and related heart disease is a leading cause of death within the African American,
53
54 Caucasian, and Hispanic communities (CDC., 2017a, 2017b). As with any health behavior
55
56 modification or education program, the local faith community offers an influential platform for
57
58
59
60
61
62
63
64
65

1
2
3
4 reaching people in a trusted and culturally sensitive manner. This is most evident within African
5
6 American communities due to the local faith community's historical role within African
7
8 American culture and society (Dodani et al., 2014). Dodani et al. (2014) describes the effects of
9
10 HEALS (Healthy Eating and Living Spiritually) program, a faith-based community program that
11
12 targets cardiovascular disease within African American churches of Jacksonville, FL though the
13
14 use of faith community nurses and lay health advisors. Because the program partners with local
15
16 faith-based communities, it benefits from faith community support networks, has the ability to
17
18 reach members who would not otherwise accept or seek help, allows faith community members
19
20 to care for one another, and provides care in a cost effective manner (Dodani et al., 2014).
21
22
23
24
25
26 HEALS is a 12-week program that provides participant education on nutrition, meal prep,
27
28 applying health eating skills to eating out, motivation, and training on how to deal with setbacks
29
30 and negativity. Dodani et al. (2014) note programs that provide training for lay educators or faith
31
32 community nurses must be further evaluated for their long-term ability to effect and maintain
33
34 behavior change within their local faith communities.
35
36
37
38
39
40

41 **Conclusions**

42
43 Contemporary literature continues to support the association between religious involvement and
44
45 health lifestyle behaviors (Chatters, 2000; Gotwals, 2018; Kyryliuk, Baruth, & Wilcox, 2015;
46
47 Lancaster, Carter-Edwards, Grilo, Shen, & Schoenthaler, 2014; Levin, 2014; Sattin et al., 2016;
48
49 Timmons, 2014; Yeary et al., 2015; Young et al., 2014). Perhaps the most significant barrier to
50
51 any health education program is the ability to produce long-term behavior change for program
52
53 participants. While education programs may motivate short-term change, lifestyle behavior
54
55 change is dependent upon several factors such as cultural appropriateness, long-term
56
57
58
59
60
61
62
63
64
65

1
2
3
4 commitment to achieve and maintain health goals, resources to achieve and sustain short and
5
6 long-term goals, interpersonal and community support, and self-efficacy. Governmental
7
8 programs may provide participants with resources and education, but they often lack the long-
9
10 term relationship commitments that faith-based organizations provide; in addition, some people
11
12 have difficulty accessing medical health programs and may lack trust in governmental or health
13
14 care provider sponsored programs. Faith-based organizations, however, are seen as an authority
15
16 figure within Hispanic communities and a cornerstone of African American communities
17
18 (Harmon et al., 2014; Schwingel & Gálvez, 2015). However, the local faith community
19
20 historically has not qualified for government aid to develop and maintain faith-based education
21
22 programs (Levin, 2014), thus faith communities that serve and support low income communities
23
24 may not have the resources necessary to meet the health needs of their congregants. With the
25
26 CDC's and NIH's backing, more university and government sponsored programs are reaching
27
28 out to faith-based organizations to better serve people in need (Morales-Alemán et al., 2018;
29
30 Newlin et al., 2012). Additionally, growing literature continues to support the role and value of
31
32 the faith community nurse as key in implementing health education programs, providing
33
34 resources through the local church, and building and encouraging positive, motivating
35
36 relationships between program participants, nurse education, patient care, and reflective practice
37
38 (Fawcett & Noble, 2004; Gotwals, 2018; McKnight, 2017; Murphy & Walker, 2013; Pfeiffer,
39
40 2018; Pfeiffer, Gober, & Taylor, 2014; Rieg, Newbanks, & Sprunger, 2018; Simon, Hodges, &
41
42 Schoonover-Shoffner, 2020; Taylor, Park, & Pfeiffer, 2014). Campbell et al. (2007) suggest
43
44 health interventions that incorporate a spiritual element have been successfully used within the
45
46 African American community as these programs play a key role in positive behavioral change.
47
48 Young et al. (2014) adds that religious based organizations have the unique ability to address
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65

1
2
3
4 public health needs in a diverse population, often reaching into communities where other
5
6 programs could not. This is a research gap worthy of further exploration. Regardless of the
7
8 method, faith-based programs provide access that governmental programs lack and are thereby
9
10 able to affect long-term behavior changes and provide accountability through congregant
11
12 relationships.
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65

References

- Anderson, S. H. (2016). *An Investigation of Stroke Awareness among African American Women in Faith Based Organizations: A Mixed Methods Intervention Study*. (EdD), A.T. Still University of Health Sciences. Retrieved from <https://search.proquest.com/openview/211b328895bdc651a21c9c46060c8b3d/1?pq-origsite=gscholar&cbl=18750&diss=y> (ProQuest Number 10141477)
- Bard, J. A. (2006). Faith Community Nurses and the Prevention and Management of Addiction Problems. *Journal of Addictions Nursing*, 17(2), 115-120. doi:10.1080/10884600600668302
- Baruth, M., & Wilcox, S. (2013). Multiple behavior change among church members taking part in the faith, activity, and nutrition program. *Journal of Nutrition Education and Behavior*, 45(5), 428-434. doi:10.1016/j.jneb.2013.03.002
- Campbell, M. K., Hudson, M. A., Resnicow, K., Blakeney, N., Paxton, A., & Baskin, M. (2007). Church-based health promotion interventions: evidence and lessons learned. *Annual review of public health*, 28, 213-234. doi:10.1146/annurev.publhealth.28.021406.144016
- CDC. (2017a). Heart Disease Fact Sheet. Retrieved from https://www.cdc.gov/dhds/data_statistics/fact_sheets/fs_heart_disease.htm
- CDC. (2017b). Heart Disease Facts. Retrieved from <https://www.cdc.gov/heartdisease/facts.htm>
- CDC. (2017c). National Diabetes Statistic Report, 2017. Retrieved from <https://www.cdc.gov/features/diabetes-statistic-report/index.html>
- CDC. (2018). Incidence of Diagnosed Diabetes. Retrieved from <https://www.cdc.gov/diabetes/data/statistics-report/incidence-diabetes.html>
- CDC. (2019). Health, United States Spotlight - Racial and Ethnic Disparities in Heart Disease. Retrieved from <https://www.cdc.gov/nchs/hus/spotlight/2019-heart-disease-disparities.htm>
- Chatters, L. M. (2000). Religion and health: public health research and practice. *Annual review of public health*, 21, 335-367. doi:10.1146/annurev.publhealth.21.1.335
- Chatters, L. M., Levin, J. S., & Ellison, C. G. (1998). Public health and health education in faith communities. *Health education & behavior*, 25(6), 689-699. doi:10.1177/109019819802500602
- Cooper, K. C., King, M. A., & Sarpong, D. F. (2015). Tipping the scales on obesity: church-based health promotion for African American women. *Journal of Christian Nursing*, 32(1), 41-45.
- Degano, I. R., Marrugat, J., Grau, M., Salvador-Gonzalez, B., Ramos, R., Zamora, A., . . . Elosua, R. (2017). The association between education and cardiovascular disease incidence is mediated by hypertension, diabetes, and body mass index. *Scientific reports*, 7(1), 12370. doi:10.1038/s41598-017-10775-3
- Dodani, S., Beayler, I., Lewis, J., & Sowders, L. A. (2014). HEALS Hypertension Control Program: Training Church Members as Program Leaders. *The Open Cardiovascular Medicine Journal*, 8, 121-127. doi:10.2174/1874192401408010121
- Fawcett, T. N., & Noble, A. (2004). The challenge of spiritual care in a multi-faith society experienced as a Christian nurse. *Journal of Clinical Nursing*, 13(2), 136-142. doi:10.1046/j.1365-2702.2003.00870.x
- Flynn, L. (2001). A Christian model of health promotion. *Journal of Christian Nursing*, 18(1), 31-33.

- 1
2
3
4 Gonzalez, E., Villanueva, S., & N Grills, C. (2012). Communities Creating Healthy
5 Environments to Combat Obesity: Preliminary Evaluation Findings From Two Case
6 Studies. *Californian Journal of Health Promotion, 10*, 88-98. doi:10.32398/cjhp.v10iSI-
7 Latino.1486
8
- 9 Gotwals, B. (2018). Self-Efficacy and Nutrition Education: A Study of the Effect of an
10 Intervention with Faith Community Nurses. *Journal of Religion and Health, 57*(1), 333-
11 348. doi:10.1007/s10943-017-0465-2
12
- 13 Gutierrez, J., Devia, C., Weiss, L., Chantarat, T., Ruddock, C., Linnell, J., . . . Calman, N.
14 (2014). Health, Community, and Spirituality: Evaluation of a Multicultural Faith-Based
15 Diabetes Prevention Program. *Diabetes Educator, 40*(2), 214-222.
16 doi:10.1177/0145721714521872
17
- 18 Gwilt, J. R. (1987). Public health in the Bible. *Journal of the Royal Society of Health, 107*(6),
19 247-248.
- 20 Hales, C. M., Carroll, M. D., Fryar, C. D., & Ogden, C. L. (2017). Prevalence of obesity among
21 adults and youth: United States, 2015–2016. Retrieved from
22 <https://www.cdc.gov/nchs/products/databriefs/db288.htm>
23
- 24 Hardison-Moody, A., Dunn, C., Hall, D., Jones, L., Newkirk, J., & Thomas, C. (2011). Multi-
25 Level Partnerships Support a Comprehensive Faith-Based Health Promotion Program.
26 *Journal of Extension, 49*(6), 1-5.
- 27 Harmon, B. E., Adams, S. A., Scott, D., Gladman, Y. S., Ezell, B., & Hebert, J. R. (2014). Dash
28 of Faith: A Faith-Based Participatory Research Pilot Study. *Journal of Religion and*
29 *Health, 53*(3), 747-759. doi:10.1007/s10943-012-9664-z
30
- 31 He, M., Wilmoth, S., Bustos, D., Jones, T., Leeds, J., & Yin, Z. (2013). Latino church leaders'
32 perspectives on childhood obesity prevention. *American Journal of Preventive Medicine,*
33 *44*(3 Suppl 3), S232-239. doi:10.1016/j.amepre.2012.11.014
34
- 35 Kyrlyliuk, R., Baruth, M., & Wilcox, S. (2015). Predictors of Weight Loss for African-American
36 Women in the Faith, Activity, and Nutrition (FAN) Study. *Journal of Physical Activity*
37 *and Health, 12*(5), 659-665. doi:doi:10.1123/jpah.2013-0220
38
- 39 Lancaster, K. J., Carter-Edwards, L., Grilo, S., Shen, C., & Schoenthaler, A. M. (2014). Obesity
40 interventions in African American faith-based organizations: A systematic review.
41 *Obesity Reviews, 15*, 159-176. doi:10.1111/obr.12207
42
- 43 Levin, J. (2014). Faith-based initiatives in health promotion: history, challenges, and current
44 partnerships. *American journal of health promotion, 28*(3), 139-141.
45 doi:10.4278/ajhp.130403-CIT-149
- 46 McKnight, H. (2017). Aligning Career with Faith: Reflective Practice for Christian Nurse
47 Educators. *Journal of Christian Nursing, 34*(2), E23-E25.
48 doi:10.1097/CNJ.0000000000000376
49
- 50 Morales-Alemán, M. M., Moore, A., & Scarinci, I. C. (2018). Development of a Participatory
51 Capacity-Building Program for Congregational Health Leaders in African American
52 Churches in the US South. *Ethnicity & disease, 28*(1), 11-18. doi:10.18865/ed.28.1.11
53
- 54 Murphy, L. S., & Walker, M. S. (2013). Spirit-guided care: Christian nursing for the whole
55 person. *Journal of Christian Nursing, 30*(3), 144-152; quiz 153-144.
56 doi:10.1097/cnj.0b013e318294c289
- 57 Newlin, K., Dyess, S. M., Allard, E., Chase, S., & Melkus, G. D. (2012). A methodological
58 review of faith-based health promotion literature: advancing the science to expand
59
60
61
62
63
64
65

- 1
2
3
4 delivery of diabetes education to Black Americans. *Journal of Religion and Health*,
5 51(4), 1075-1097. doi:10.1007/s10943-011-9481-9
- 6
7 Odoms-Young, A. M., Kong, A., Schiffer, L. A., Porter, S. J., Blumstein, L., Bess, S., . . .
8 Fitzgibbon, M. L. (2014). Evaluating the initial impact of the revised Special
9 Supplemental Nutrition Program for Women, Infants, and Children (WIC) food packages
10 on dietary intake and home food availability in African-American and Hispanic families.
11 *Public Health Nutrition*, 17(1), 83-93. doi:10.1017/s1368980013000761
- 12
13 Ogden, C. L., Fakhouri, T. H., Carroll, M. D., Hales, C. M., Fryar, C. D., Li, X., & Freedman, D.
14 S. (2017). Prevalence of Obesity Among Adults, by Household Income and Education -
15 United States, 2011-2014. *MMWR. Morbidity and mortality weekly report*, 66(50), 1369-
16 1373. doi:10.15585/mmwr.mm6650a1
- 17
18 Pfeiffer, J. (2018). Strategies christian nurses use to create a healing environment. *Religions*,
19 9(11). doi:10.3390/rel9110352
- 20
21 Pfeiffer, J. B., Gober, C., & Taylor, E. J. (2014). How christian nurses converse with patients
22 about spirituality. *Journal of Clinical Nursing*, 23(19-20), 2886-2895.
23 doi:10.1111/jocn.12596
- 24
25 Rieg, L. S., Newbanks, R. S., & Sprunger, R. (2018). Caring from a Christian Worldview:
26 Exploring Nurses' Source of Caring, Faith Practices, and View of Nursing. *Journal of*
27 *Christian Nursing*, 35(3), 168-173. doi:10.1097/CNJ.0000000000000474
- 28
29 Sattin, R. W., Williams, L. B., Dias, J., Garvin, J. T., Marion, L., Joshua, T. V., . . . Venkat
30 Narayan, K. M. (2016). Community Trial of a Faith-Based Lifestyle Intervention to
31 Prevent Diabetes Among African-Americans. *Journal of Community Health*, 41(1), 87-
32 96. doi:10.1007/s10900-015-0071-8
- 33
34 Schwingel, A., & Gálvez, P. (2015). Divine Interventions: Faith-Based Approaches to Health
35 Promotion Programs for Latinos. *Journal of Religion and Health*. doi:10.1007/s10943-
36 015-0156-9
- 37
38 Simon, E. B., Hodges, R., & Schoonover-Shoffner, K. (2020). Experiencing God in Nursing.
39 *Journal of Christian Nursing*, 37(2), 94-99. doi:10.1097/CNJ.0000000000000637
- 40
41 St Fleur, R., & Petrova, A. (2014). Knowledge and perception of breastfeeding practices in
42 Hispanic mothers in association with their preferred language for communication.
43 *Breastfeeding medicine*, 9(5), 261-265. doi:10.1089/bfm.2013.0145
- 44
45 Taylor, E. J., Park, C. G., & Pfeiffer, J. B. (2014). Nurse religiosity and spiritual care. *Journal of*
46 *Advanced Nursing*, 70(11), 2612-2621. doi:10.1111/jan.12446
- 47
48 Timmons, S. M. (2014). Review and Evaluation of Faith-Based Weight Management
49 Interventions That Target African American Women. *Journal of Religion and Health*,
50 54(2), 798-809. doi:10.1007/s10943-014-9912-5
- 51
52 Villatoro, A. P., Dixon, E., & Mays, V. M. (2016). Faith-based organizations and the Affordable
53 Care Act: Reducing Latino mental health care disparities. *Psychological services*, 13(1),
54 92-104. doi:10.1037/a0038515
- 55
56 Villatoro, A. P., Morales, E. S., & Mays, V. M. (2014). Family culture in mental health help-
57 seeking and utilization in a nationally representative sample of Latinos in the United
58 States: The NLAAS. *The American journal of orthopsychiatry*, 84(4), 353-363.
59 doi:10.1037/h0099844
- 60
61 Wilcox, S., Saunders, R. P., Kaczynski, A. T., Forthofer, M., Sharpe, P. A., Goodwin, C., . . .
62 Hutto, B. (2018). Faith, Activity, and Nutrition Randomized Dissemination and
63
64
65

- 1
2
3
4 Implementation Study: Countywide Adoption, Reach, and Effectiveness. *American*
5 *Journal of Preventive Medicine*, 54(6), 776-785. doi:10.1016/j.amepre.2018.02.018
6
7 Yeary, K. H. C. K., Cornell, C. E., Prewitt, E., Bursac, Z., Tilford, J. M., Turner, J., . . . Harris,
8 K. (2015). The WORD (Wholeness, Oneness, Righteousness, Deliverance): Design of a
9 randomized controlled trial testing the effectiveness of an evidence-based weight loss and
10 maintenance intervention translated for a faith-based, rural, African American population
11 using a community-based participatory approach. *Contemporary Clinical Trials*, 40, 63-
12 73. doi:10.1016/j.cct.2014.11.009
13
14 Young, S., Patterson, L., Wolff, M., Greer, Y., & Wynne, N. (2014). Empowerment, Leadership,
15 and Sustainability in a Faith-Based Partnership to Improve Health. *Journal of Religion*
16 *and Health*. doi:10.1007/s10943-014-9911-6
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65

Table 1. Model of Health Promoting Behaviors with Key Biblical References

Behavior-Oriented Themes	Scripture References
Recognize value before God	Ps. 91:11; Mt 10:29-31; Lk 12:6-7; Rom 5:8; Rom 8:38-39; Eph 3:18-19; 1 Jn 4:10
Caring for others	Mt 19:19; Mt 22:39; Mk 12:33; Lk 6:27; Lk 10: 29-37; Jn 13:34-35; Jn 15:12; Rom 13:8-9; Gal 5:13-14; Eph 4:2; Eph 4:32; 1 Thess 4:9; I Thess 4:14; Heb 13:1-3; Jas 2:8; 1 Pet 1:22; 1 Jn 3:11; 1Jn 3:18; 1 Jn 4:7
Reducing anxiety through faith in God	Ps 37:8-9; Prov 20:24; Mt 6:25-34; Phil 4:6
Maintaining balance and moderation in life	Ex 16:23, Ex 20:8, Ex34:21, Ex. 35:2; Eccles 3:1-8, 12-13; Mk 2:27

Note: Flynn (2001) developed the themes to promote healthy 'Christian' living based on four recurrent themes mentioned in the Bible.