INTRODUCTION

Physical inactivity contributes to disparities in over-weight and obesity, cancer, and cardiometabolic diseases (Dietz, W. 2015; Kumanyika, S, et al. 2014). Along with maintenance of normal weight, consumption of healthy food, and avoiding tobacco use and heavy alcohol consumption, physical activity contributes to individual health and wellbeing (Sallis, J & Glanz, K. 2009; Sallis, J, et al. 2006). However, 39.5% of African American adolescents are overweight or obese and many school-aged children, adolescents, and adults do not meet the national guidelines for engaging in regular physical activity (Ogden, C, et al. 2010; Nader, P, et al. 2008). The Healthy People 2020 Guideline for Physical Activity aims to increase the proportion of youth and adults who meet current federal guidelines for aerobic physical activity (HHS). Over the past decade, a rich literature has developed on community-based participatory research (CBPR) approaches for promoting physical activity in African American communities. Many of these CBPR studies have used faith-based interventions involving people identified through church congregations.

As part of the planning process for CBPR studies on encouraging physical activity among African Americans in Georgia and other states with sizeable African American populations, the published literature on this topic was reviewed. The goals were to examine the effectiveness of CBPR in increasing physical activity among African Americans and to identify recent trends and developments in CBPR relating to promotion of physical activity in this population, including refinements and innovations in quantitative research methods, frameworks, and educational interventions.

METHODS

The present review is based upon bibliographic searches in PubMed and CINAHL with relevant search terms. Articles published in English through October 31, 2015 were identified using the following MeSH search terms and Boolean algebra commands: (((community-based participatory research) or (community-based research) or (community-based study) or (action research)) AND (physical activity) AND (African Americans)). Although the search criteria did not specify a begin date, the earliest article that met the search criteria was published in 1989. The searches were not limited to words appearing in the titles of articles. Studies that focused on patients with chronic diseases other than obesity were excluded. Information obtained from bibliographic searches (title and topic of article, information in abstract, geographic locality of a study, and key words) was used to determine whether to retain each article. In addition, reports included in Cochrane reviews were identified (http://community.cochrane.org/cochrane-reviews). The references in reports and review articles were also
reviewed (8-11). As detailed in Figure 1, 290 citations were found. After screening the abstracts or full texts of these articles, 15 CBPR studies on promoting physical activity among African Americans were identified, all of which were conducted in the U.S. The two eligible studies identified in the CINAHL search overlapped with those identified in the PubMed search (Figure 1). The excluded citations included studies that focused on patients with diabetes, coronary heart disease, and other chronic diseases other than obesity; clinical research studies conducted in hospital and clinic settings; and randomized controlled trials that did not follow CBPR principles (for example, there was no community advisory committee and no members of the target communities were involved in the planning and conduct of the study). The present review extends upon the work of earlier authors by including studies in the past few years (along with earlier studies) and by focusing specifically on CBPR studies involving African Americans. This review article does not contain any studies with human participants performed by the authors and therefore was not subject to institutional review board review.

Figure 1. Summary of search and exclusion process for identified studies

![Figure 1. Summary of search and exclusion process for identified studies](image)

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**RESULTS**

Of the 15 studies that met the inclusion criteria, one focused on school children and adolescents; the remainder focused on adults (n = 13) or on both children and adults (n = 1) (Table 1). Seven studies employed CBPR methods to address physical activity in church congregations or other faith communities. Eight had a pre-/post-test design, three had a quasi-experimental design, three had a randomized controlled design, and one was a case study.

Choudhry et al. conducted a pilot study involving 40 African American children aged 5-12 years who were attending after-school care on Chicago’s South Side. The physical activity and nutrition intervention followed CBPR principles and had multiple components (environmental change, nutrition and physical activity education, and outreach by parents). Post-intervention, mean body mass index (BMI) z scores decreased from 1.05 to 0.81 (P<0.001). Girls decreased their combined prevalence of overweight/obesity from 52% to 46%. Among boys, however, the prevalence of overweight/obesity did not change.

Cowart, et al. (2010) performed a pre-post pilot test of a 12-week nutrition education and exercise-fitness program among adult members of six churches in Syracuse, NY. Although only 11 of the 22 post-pilot surveys could be linked to earlier assessments, a comparison of assessment data with feedback from those attending 3 to 12 pilot program sessions suggested a pattern of beneficial changes in nutrition and exercise habits.
Dodani and Fields (2010) conducted a feasibility study of a spiritually-based lifestyle modification program (diet, nutrition, physical activity, and weight control) for diabetes prevention. The participants included 40 adult members of a church in Evans County, Georgia who were overweight, obese, or morbidly obese. Of the 35 participants who attended at least 10 sessions and provided information required for the study, 48% lost at least 5% of their baseline weight, 26% lost 7% or more, and 14% lost more than 10%.

Table 1. CBPR studies on physical activity among African Americans

<table>
<thead>
<tr>
<th>Study</th>
<th>Sample</th>
<th>Design</th>
<th>Results</th>
<th>Limitations</th>
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<tbody>
<tr>
<td>Choudhry et al. (2011)</td>
<td>40 African American children (24 girls and 16 boys, 54% overweight or obese) ages 5-12 yrs on Chicago’s South Side</td>
<td>Pre-post test of a multicomponent intervention (environmental change, education on healthy eating and physical activity, and parent outreach) delivered during after-school care and at home</td>
<td>Post-intervention, BMI z scores decreased from 1.05 to 0.81 (P&lt;0.001). Girls decreased their combined prevalence of overweight/obesity from 52% to 46%. The prevalence of overweight/obesity did not change among boys.</td>
<td>Small sample size, lack of a randomized controlled design, uncertain generalizability</td>
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<tr>
<td>Cowart et al. (2010)</td>
<td>22 adult church members at 6 Black churches in Syracuse, NY</td>
<td>Pre-post pilot test of a 12-week nutrition education/exercise-fitness program on weight loss and wellbeing delivered by lay health advocates</td>
<td>A comparison of assessment data with feedback from those attending 3 to 12 pilot program sessions suggested a pattern of beneficial changes in nutrition and exercise habits.</td>
<td>Small sample size, lack of a randomized controlled design, lack of a comparison group, potential confounding, uncertain generalizability. Only 11 of the 22 post-pilot surveys could be linked to the earlier assessments.</td>
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<tr>
<td>Dodani &amp; Fields (2010)</td>
<td>40 adult members (mean age 46 yrs, 85.3% female, 19.5% overweight, 48.8% obese, and 31.7% morbidly obese) of a church in Evans County, GA</td>
<td>Pre-post test of a spiritually based lifestyle modification program (diet, nutrition, physical activity, weight control) for diabetes prevention</td>
<td>Of the 35 participants who attended at least 10 sessions and provided information required for the study, 48% lost at least 5% of their baseline weight, 26% lost 7% or more, and 14% lost over 10% of their baseline weight.</td>
<td>Small sample size, lack of a comparison group, uncertain generalizability</td>
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<tr>
<td>Goldfinger et al. (2008)</td>
<td>26 overweight and obese African American adult (mean age 68 yrs) members of a church in Harlem, NY</td>
<td>Pre-post test of a peer-led, community-based course on healthy eating and active living. The main outcome was change in weight</td>
<td>Participants lost a mean of 4.4 pounds at 10 weeks, 8.4 pounds at 22 weeks, and 9.8 pounds at 1 year</td>
<td>Small sample size, lack of a randomized controlled design, uncertain generalizability</td>
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<tr>
<td>Healey et al. (2013)</td>
<td>11 participants (8 women, 3 men; mean age 66.5 yrs) in Chicago’s South Side</td>
<td>Pre-post test of a physical activity training curriculum delivered by four physical activity promoters. The outcome measures were the 6-minute walk test, self-efficacy scores, and accelerometer measures for one week</td>
<td>There were no significant differences, except for a 91.6 meter increase in the 6-minute walk test distance.</td>
<td>Small sample size, lack of a randomized controlled design, potential confounding, uncertain generalizability</td>
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<tr>
<td>Kim et al. (2008)</td>
<td>73 participants (71% female, mean age 54.1 yrs, 100% African American) from rural churches in North Carolina</td>
<td>Quasi-experimental design with an intervention group and a delayed intervention control group</td>
<td>Small groups led by trained community members met weekly for 8 weeks and emphasized healthy nutrition, physical activity, and faith’s connection to health. The mean weight loss in the intervention group was 3.60 lbs., compared to 0.59 lbs. in the control group (P&lt;0.001). The intervention was also associated with an increase in physical activity, uncertain generalizability.</td>
<td>Non-randomized design, small sample size, use of self-reported information about fruit and vegetable consumption and recreational physical activity, uncertain generalizability</td>
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<td>Study</td>
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<td>Landry et al. (2015)</td>
<td>269 adults (94% African American, 85% female, mean age 44 yrs) in Hattiesburg, Mississippi</td>
<td>6-month, community-based, pre-post trial of an intervention consisting of motivational enhancement, social support, pedometer diary self-monitoring, and educational sessions. The outcome measures were steps per day, fitness, dietary intake, and psychosocial construct measures</td>
<td>For the dietary and physical activity outcome variables, temporal changes were observed only for sugar intake and steps per day. Sugar intake decreased by about 3 teaspoons and physical activity increased by about 2,010 steps per day.</td>
<td>Lack of a randomized controlled design, uncertain generalizability, use of self-reported measures for dietary intake</td>
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<tr>
<td>Lasco et al. (1989)</td>
<td>70 obese African American residents (ages 18-59 yrs) of a neighborhood in Atlanta, GA</td>
<td>Pre-post evaluation of a multicomponent intervention (attitudes assessment, selection of a specific exercise class, and twice-weekly information on nutrition and community resources)</td>
<td>42 (60%) of the participants lost weight; the weight of 8 (11%) remained the same (P=0.0009).</td>
<td>Lack of a randomized controlled design, uncertain generalizability</td>
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<tr>
<td>Scarinci et al. (2014)</td>
<td>565 African American women ages 45-65 yrs in rural Alabama counties</td>
<td>Cluster randomized trial comparing two interventions: promotion of healthy eating and physical activity (“healthy lifestyle” arm) vs. promotion of breast and cervical cancer screening. CBPR principles were followed.</td>
<td>At the 12-month follow-up, participants in the “healthy lifestyle” arm showed significant positive changes (increased fruit/vegetable intake, decreased fried food consumption, increased physical activity). At 12 months, there was a 69% increase in the number of participants eating five or more servings of fruit and vegetables per day in the in the healthy lifestyle arm. At 24-months, these positive changes were maintained with healthy eating behaviors but not physical activity</td>
<td>Large differences in retention across intervention arms, use of self-reported outcome measures</td>
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<tr>
<td>Schulz et al. (2005)</td>
<td>Residents of Detroit’s East Side neighborhood</td>
<td>Case study description</td>
<td>Over a 2-year period, 18 community residents completed 2 eight-week project training sessions. After completion of the training, the community advocates implemented activities to prevent diabetes by promoting healthy diets and physical activity (walking club for seniors, community events focused on diabetes awareness for youth, older adults, residents of a shelter, and the community at large, healthy cooking demonstrations tailored to ensure cultural appropriateness).</td>
<td>Non-randomized design, lack of a comparison group, lack of a quantitative evaluation, uncertain generalizability</td>
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<tr>
<td>Parker et al. (2010)</td>
<td>35 African American women (ages 25-64 yrs) at churches in 3 rural counties of South Carolina</td>
<td>Pre-post test. Physical activity was assessed using the Yale Physical Activity Survey</td>
<td>Two different 10-week interventions (spiritually-based and nonspiritually-based) were pilot tested using a pre-post design. Both interventions led to significant reductions in BMI but the spiritually-based intervention (z = -1.97, P&lt;0.01) led to greater reductions in BMI. For the spiritual group, statistically significant improvements were found in physical activity (z = -2.74, P&lt;0.01)</td>
<td>Non-randomized design, small sample size, uncertain generalizability</td>
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<tr>
<td>Ries et al. (2014)</td>
<td>485 low-income, predominately minority women (63% African)</td>
<td>Quasi-experimental design. CBPR principles were followed to address obesity, poverty, and low</td>
<td>For both African Americans (P&lt;0.05) and Whites (P&lt;0.001), intervention participants were more likely than comparison participants to move from use of self-reported information about diet and physical activity</td>
<td>Non-randomized design, small sample size, uncertain generalizability</td>
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<td>Wilcox et al. (2013)</td>
<td>1,257 participants (mean ages 54.1 yrs, 99.4% African American, 80% some college or above) from five churches (3 intervention, 2 control) in Colorado</td>
<td>Cluster randomized controlled trial of a CBPR intervention (full-day committee training, full-day cook training, and 15 months of mailings and technical assistance calls) targeting healthy eating and physical activity</td>
<td>In intention-to-treat analyses conducted using analysis of variance, there was a significant intervention effect in self-reported leisure-time moderate-to-vigorous intensity physical activity (P=0.02) but no effect for dietary outcomes. Covariance analyses for participants who completed both pre- and post-measurements showed an intervention effect for moderate-to-vigorous intensity physical activity (P=0.03) and self-reported fruit and vegetable consumption (P=0.03).</td>
<td>High attrition, use of self-reported information about physical activity and diet</td>
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<td>Woods et al. (2013)</td>
<td>106 adults (73% female, 90% African American, 80% some college or above) from five churches (3 intervention, 2 control) in Colorado</td>
<td>Cluster randomized trial of diet, nutrition, and physical activity intervention (small group educational sessions, demonstrations of healthy food preparation, physical activities) developed using CBPR principles</td>
<td>At 2-months follow-up, the intervention group showed greater decreases in weight (P&lt;0.02), BMI (P&lt;0.05), and percent body fat (P&lt;0.03) than the control groups. There was also an increase in physical fitness (P&lt;0.10).</td>
<td>Limited number of male participants, uncertain generalizability</td>
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<tr>
<td>Zoellner et al. (2007)</td>
<td>83 rural residents in Hollandale, Mississippi (99% African American, 97% women)</td>
<td>A quasi-experimental design was used to evaluate a 6-month intervention focused on promoting physical activity and health through walking teams led by coaches, self-monitoring, and monthly one-hour educational sessions</td>
<td>There were significant improvements in waist circumference (-1.4 inches), systolic blood pressure (-4.3 mmHg), and HDL-cholesterol (+7.9 mg/dL) (P&lt;0.001). Self-reported walking per day was 44.8 (SD=52.2) minutes at enrollment and 65.9 (SD=89.7) minutes at 6-months (P=0.154).</td>
<td>Uncertain generalizability</td>
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</table>

A coalition of community and academic leaders conducted a pre-post design, pilot study of a peer-led, community-based course on healthy eating and active living (Goldfinger, J, et al. 2008). The participants were 26 overweight and obese African American adult members of a church in Harlem, NY. Participants lost a mean of 4.4 pounds at 10 weeks, 8.4 pounds at 22 weeks, and 9.8 pounds at 1 year.

Healey et al. (2013) conducted a pre-post test of a physical activity training curriculum delivered by four physical activity promoters. The 11 participants (8 women, 3 men; mean age 66.5 yrs) lived in Chicago’s South Side. The outcome measures were the 6-minute walk test, self-efficacy scores, and accelerometer measures at one week.

There were no significant differences except for a 91.6-meter increase in the 6-minute walking distance.

Kim et al. (2008) conducted a study of a faith-based weight loss intervention. With an intervention group and a delayed-intervention control group, a quasi-experimental design was used. The 73 participants (71% female mean age 54.1 years, 100% African American) were from rural churches in North Carolina. Small groups led by trained community members met weekly for 8 weeks. The community members emphasized physical activity, healthy nutrition, and the connection of faith to health. The mean weight loss in the intervention group was 3.60 lbs. relative to 0.59 lbs. in the control group.
Landry et al. (2015) completed a 6-month, community-based, pre-post trial of an intervention consisting of motivational enhancement, social support, pedometer diary self-monitoring, and educational sessions. The participants were 269 adults (94% African American, 85% female, mean age 44 years) in Hattiesburg, Mississippi. The outcome measures were steps per day, fitness, dietary intake, and psychosocial construct measures. For the physical activity and dietary outcome variables, there were temporal changes observed only for steps per day and sugar intake. Sugar intake decreased by about 3 teaspoons and physical activity increased by approximately 2,010 steps per day.

Using a pre-post design, Lasco et al. (1989) evaluated a community-led multicomponent intervention that consisted of an attitudes assessment, selection of a specific exercise class, and twice-weekly information on nutrition and community resources. The participants were 70 obese African American residents of a neighborhood in Atlanta, Georgia, between the ages of 18 and 59 years. During the intervention, 42 (60%) of the participants lost weight; the weight of 8 (11%) remained the same (P=0.0009).

Scarinci et al. (2014) conducted a community-based, cluster-randomized trial comparing two interventions: 1) promotion of physical activity and healthy eating (“healthy lifestyle” arm), and 2) promotion of breast and cervical cancer screening. CBPR principles were followed in planning and accomplishing the study. The participants were 565 African American women of ages 45-65 years in rural counties in Alabama. At the 12-month follow-up, participants in the “healthy lifestyle” arm showed significant positive changes (increased physical activity, increased fruit/vegetable intake, decreased fried food consumption). At 24-months, these positive changes were maintained for healthy eating behaviors but not for physical activity.

Schulz et al. (2005) conducted a CBPR project on diabetes prevention among residents of Detroit’s East Side neighborhood. Over a 2-year period, 18 community residents completed 2 eight-week project training sessions. After completion of the training, the community advocates implemented activities to prevent diabetes by promoting physical activity and healthy diets (a walking club for seniors; community events focused on diabetes awareness for youth, older adults, residents of a shelter, and the community at large; and healthy cooking demonstrations tailored to ensure cultural appropriateness).

In three rural counties in South Carolina, Parker et al. (2010) conducted a church-based weight loss intervention among African American women. The study was developed with community involvement. The 35 participants, between the ages of 25 and 64 years, were not pregnant or breastfeeding. Two 10-week interventions (spiritually-based and non-spiritually-based) were pilot tested using a pre-post design. Physical activity was assessed using the Yale Physical Activity Survey. Both interventions led to significant reductions in BMI but the spiritually-based intervention (z = -1.97, P<0.01) led to greater reductions.

For the spiritually-based group, significant improvements were found in physical activity (z = -2.74, P<0.01)

In rural North Carolina counties, Ries et al. (2014) conducted a project with a quasi-experimental design. The participants were 485 low-income, predominately minority women (63% African American) with a mean age of 47.5 years. The curriculum for the bi-weekly group meetings held over a 6-month period addressed physical activity, healthy eating, weight control, stress management, education, and job skills. For both African Americans (P<0.05) and Whites (P<0.0001), intervention participants were more likely than comparison participants to move from contemplation to action/maintenance for the goal of increasing physical activity. For all participants, progression in stages of change mediated the intervention effect on physical activity, but not fruit and vegetable intake. Intervention group participants engaged in more minutes of physical activity per week (138 minutes) than comparison participants (86 minutes, P<0.05).

In 74 African Methodist Episcopal churches in North Carolina, Wilcox et al. (2013) conducted a cluster-randomized controlled trial of an intervention (full-day committee training, full-day cook training, and 15 months of mailings and technical assistance calls) targeting physical activity and healthy eating. The churches were randomized to immediate or delayed intervention. The 1,257 participants (mean age 54.1 years, 99.4% African American, 27.1% overweight, 61.8% obese) had a high attrition. In intention-to-treat analyses accomplished by use of analysis of variance, there was an intervention effect in self-reported, leisure-time moderate-to-vigorous intensity physical activity (MVPA) (P=0.02) but no effect on dietary outcomes. Covariance analyses for participants who completed pre-and post-measurements showed an intervention effect for MVPA (P=0.03) and self-reported fruit and vegetable consumption (P=0.03).

With CBPR principles, Woods et al. (2013) conducted a cluster-randomized trial of physical activity, diet, and nutrition interventions (small group educational sessions, demonstrations of healthy food preparation, and physical activities). The 106 adult participants (73% female, 90% African American, 80% with some college or above) were from five churches (3 intervention, 2 control) in Colorado. At 2-months follow-up, the intervention group showed greater decreases in weight (P<0.02), BMI (P<0.05), and % body fat (P<0.03) than the control groups. There was an increase in physical fitness (P<0.10).

Zoellner et al. (2007) conducted a quasi-experimental study to evaluate a 6-month intervention focused on promoting physical activity and health through walking teams led by coaches, self-monitoring, and monthly 1-hour educational sessions. The participants were 83 rural residents in Hollandale, Mississippi (99% African American, 97% women). There were improvements in waist circumference (-1.4 inches), systolic blood pressure (-4.3 mmHg), and HDL-cholesterol (+7.9 mg/dL) (p<0.001). Self-reported
walking per day was 44.8 (SD=52.2) minutes at enrollment and 65.9 (SD=89.7) minutes at 6 months (P=0.154).

DISCUSSION

The conclusions of this systematic review show that mixed results have been obtained in CBPR studies related to promotion of physical activity in African American communities, but that modest increases in activity have often been observed. To address health disparities, additional CBPR studies and faith-based interventions are needed to identify optimal approaches for promoting physical activity in African American communities in rural and urban locations to address health disparities. In particular, there is a need for community-engaged studies that have an adequate sample size and a rigorous design (e.g., those with a quasi-experimental or a randomized controlled design), and which overcome limitations of previous studies. These are needed especially in states like Georgia that have substantial health disparities among children, adolescents, and adults.

The prevalence of low physical activity and obesity is a serious threat to the health of African Americans (and members of other racial and ethnic groups) because of the increased risk of cancer of the breast, colon, and other sites; diabetes; cardiovascular diseases; arthritis; sleep apnea; premature mortality; and other adverse health consequences (Dietz, W. 2015; Kumanyika, S, et al. 2014). Physical activity, nutrition, and energy balance are determinants of weight loss and maintenance of healthy weight (Sallis, J & Glanz, K. 2009).

Public health recommendations emphasize a lifestyle approach to increasing physical activity that includes brisk walking, climbing stairs, doing house work and yard work, and engaging in recreational activities (Dietz, W. 2015). Among persons living with chronic illness, physical activity and maintaining a healthy body weight can reduce the risk of disease progression or recurrence and improve quality of life (Thompson, H, et al. 2012).

Encouraging physical activity among middle-aged and older persons is essential, as they may suffer from one or more chronic illnesses and are at risk of declining physical fitness or unintended weight gain. The 2008 Physical Activity Guidelines for Americans emphasize that all adults should avoid inactivity (HHHs, 2008). Some physical activity is better than none, and adults who participate in any amount of physical activity gain some health benefits. For substantial health benefits, adults should do at least 150 minutes a week of moderate-intensity activity, or 75 minutes a week of vigorous-intensity aerobic activity, or an equivalent combination of moderate- and vigorous-intensity aerobic activity. Such activity should be performed in episodes of at least 10 minutes and, preferably, spread throughout the week. Additional guidelines are offered for school children and adolescents (HHS, 2008).

As a collaborative approach, CBPR equitably involves all partners in the research process. These partnerships are often between academic and community organizations and have the goal of increasing the value of the research product for all partners (Corbie-Smith, G, et al. 2011; Smith, S, et al. 2015). CBPR is linked to other social justice-informed approaches to research that attempt to empower communities to address the root causes of inequality and identify their own problems and appropriate solutions (Campbell, M, et al. 2007). The CBPR approach strives to acknowledge and implement the participants’ needs, behaviors, and beliefs concerning their well-being (Corbie-Smith, G, et al. 2011; Smith, S, et al. 2015). It takes into account the strengths and insights that community and academic partners bring to framing health problems and developing solutions. Many of the studies identified in this review show that community members are often interested in being involved in CBPR and in helping to ensure that the physical activity interventions developed are tailored to the needs of their community.

Numerous faith organizations and institutions are addressing the obesity epidemic and encouraging physical activity at the local level. In the United States, the Black church has long played an important role in addressing social and economic injustices (Campbell, M, et al. 2007). Poverty, lack of safe resources and facilities to exercise, and other injustices are part of the contextual factors that contribute to high obesity rates in the African American community (Gordon-Larsen, P, et al. 2006). Faith organizations at the local, regional, and national level are addressing health disparities related to physical inactivity, over-weight, and obesity among African Americans and other at-risk populations.

CONCLUSIONS

Additional CBPR studies and faith-based interventions are needed to identify effective ways to promote physical activity in African American communities and to address health disparities. Of particular interest are community-engaged studies that have an adequate sample size and a rigorous design, and which overcome limitations of previous studies, especially in states such as Georgia that have substantial health disparities. In this review, relatively few studies involving African American youth were identified. Additional CBPR studies are needed that involve the participation of adolescents.

Acknowledgements

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