

Steering Committee Meeting Agenda

Wednesday, February 28, 2024 | 4:00 pm - 5:30 pm HRDC, District IX Livingston Office, 121 S 2nd Second Street

4:00 - 4:15 p.m.	Housekeeping & review of the January meeting
4:15 - 4:35 p.m.	Discussion led by Hannah Wologo: Housing & Health Equity
4:35 - 5:00 p.m.	Review the updated work plan and identify roles
5:00 - 5:15 p.m.	Updates on funding, partnerships, and micro projects
5:15 - 5:30 p.m.	Closing and next steps

Ground Rules

Respect Each Other

Listening is important

One person speaks at a time (no interrupting)

Respect the Group

Make your points succinctly Everyone has a right to talk

It's OK to Disagree – Agreeably

Challenge ideas, not people No "zingers" or cheap shots Disagreement is an opportunity to learn

Keep the Conversation Constructive

Speak from your experience Explain your reasoning Keep an open mind



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Housing as a determinant of health equity: A conceptual model

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Abstract

Housing is a major pathway through which health disparities emerge and are sustained over time. However, no existing unified conceptual model has comprehensively elucidated the relationship between housing and health equity with attention to the full range of harmful exposures, their cumulative burden and their historical production. We synthesized literature from a diverse array of disciplines to explore the varied aspects of the relationship between housing and health and developed an original conceptual model highlighting these complexities. This holistic conceptual model of the impact of housing on health disparities illustrates how structural inequalities shape unequal distribution of access to health-promoting housing factors, which span four pillars: 1) cost (housing affordability); 2) conditions (housing quality); 3) consistency (residential stability); and 4) **context** (neighborhood opportunity). We further demonstrate that these four pillars can lead to cumulative burden by interacting with one another and with other structurally-rooted inequalities to produce and reify health disparities. We conclude by offering a comprehensive vision for healthy housing that situates housing's impact on health through a historical and social justice lens, which can help to better design policies and interventions that use housing to promote health equity.

Keywords

Socioeconomic factors; Housing; Health status disparities; Residence characteristics; Healthy housing

Introduction

The United States faces an unprecedented and multifaceted housing crisis. To begin, housing is more unaffordable than ever. Between 1960 and 2016, median rents rose 61% and median home values increased 112% along with a doubling of the number of renters who are costburdened (Joint Center for Housing Studies of Harvard University, 2018). In fact, more than half of low-income American households now allocate over 50% of their income to housing (Desmond, 2018). Meanwhile, housing stability is increasingly threatened by high rates of eviction, foreclosure, gentrification, and natural disasters, among other factors largely

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beyond a household's control. Housing choice is further restricted for low-socioeconomic and racial and ethnic minority groups due to persistent discrimination and residential segregation. On average, *affluent* Blacks live in neighborhoods with higher neighborhood poverty than do *poor* Whites (Logan, 2013).

This housing crisis has significant implications for the health and well-being of American households, especially marginalized groups. Recently, housing and neighborhoods have garnered significant and growing academic interest as determinants of health (Garrison and Pollack, 2018; Taylor, 2018). This burgeoning literature has assessed the relationship between various aspects of housing and health outcomes including: physical health; mental health; chronic and infectious disease; maternal, infant, reproductive, and sexual health; and injury. Disparities in access to health-promoting aspects of housing are patterned along axes of social inequality. Low-income neighborhoods and those with high proportions of racial and ethnic minority groups face greater environmental hazard exposures (Morello-Frosch et al., 2011) and a higher proportion of Black, Hispanic, and low-income households live in substandard housing compared with White and higher-income counterparts (Jacobs, 2011; U.S. Census Bureau, 2017). Groups that experience housing disparities furthermore experience significant health disparities across housing-relevant outcomes (National Academies of Sciences, Engineering, and Medicine et al., 2017). We argue that housing is a critical pathway through which such disparities develop and is potentially an effective means for ameliorating them through a comprehensive understanding of the complexities of housing.

Although there is a significant body of evidence that links housing to health equity, the relationship is not yet clearly and comprehensively elucidated. Much important work to date has identified the effects of a particular exposure on a particular outcome, such as lack of playgrounds in the neighborhood on physical activity or mold in the home on asthma. Furthermore, significant research, such as Jacobs' (2011) and Adamkiewicz's et al. (2011) reviews of disparities in environmental housing conditions, has now identified inequitable distribution of certain types of housing exposures. However, the wide diversity of housing and neighborhood exposures studied relevant to health equity make it difficult to comprehend the overall effect across the full range of exposures. Other fields, such as urban planning, history, and sociology, have also identified processes through which housing disparities develop, such as through redlining and exclusionary zoning (Massey and Denton, 1993; Rothstein, 2017). Yet, this research is rarely discussed in the public health literature. Doing so could facilitate a more comprehensive picture of the links between housing insecurity and health disparities, thereby strengthening arguments for housing policy solutions that leverage health as a basis for action. Aggregating these components to understand how housing matters for health, for whom it matters, and why these groups in particular came to be affected is a necessary next step.

Several researchers have made promising steps towards integration in their creation of valuable conceptual models or overviews that have further categorized exposure types and proposed pathways through which housing affects health (see Table 1) (e.g., Braveman et al., 2011; Rauh et al., 2008; Saegert et al., 2011; L. Taylor, 2018). These researchers have begun to move the field toward a multidimensional focus on housing's effects on health. Taken

collectively, these reviews and models point to health-relevant factors of housing that we term the four pillars of housing (see Fig. 1): 1) conditions (housing quality); 2) cost (affordability); 3) consistency (residential stability); and 4) context (neighborhood opportunity). However, no one model provides a unified assessment that includes attention to: all dimensions of housing, the unequal distribution of housing disparities along other axes of inequality, and the historical forces shaping unequal housing opportunities (see Table 1). All three aspects are necessary for a truly comprehensive model.

Incorporating such attention to historical production of housing disparities is important for building a convincing argument for policy action to promote a robust and equitable housing standard. Housing disparities can be traced back to a decades-long legacy of governmental, institutional, and interpersonal discriminatory policies and practices, such as the discriminatory criteria federal agencies used to provide mortgage loans (Massey and Denton, 1993; Rothstein, 2017), suggesting that solutions must also occur at a systemic level. Importantly, America and the broader global community have, at times, espoused and supported peoples' right to decent housing, such as through the U.S. Housing Act of 1949 (Freeman, 2002; National Housing Act of 1949, Pub L No 81–171, 1949) and the United Nations' Universal Declaration of Human Rights (United Nations General Assembly, 1948). The American government, however, has engaged with this responsibility only halfheartedly, generally viewing housing as a commodity rather than a right (Pattillo, 2013). Despite the significant scope and impact of the housing crisis as well as recognition of the importance of the housing-health connection by some governmental bodies (e.g., Office of the Surgeon General (US), 2009), insufficient political mobilization has occurred to address shortfalls in the provision of adequate, affordable and stable housing. The number of households receiving federally subsidized housing units, for example, has increased only marginally while the affordability crisis has deepened and more households are in need (Joint Center for Housing Studies of Harvard University, 2018). Furthermore, only one in four eligible households receives housing assistance (Fischer and Sard, 2017), even as the eviction rates reach crisis levels (Desmond, 2012; Desmond, 2015). This reality furthers our argument for an improved policy response.

One critical starting point is to move beyond the false dichotomy of either being homeless or housed, and embrace a more nuanced and complete understanding of housing that recognizes its wide array of health-detrimental aspects (short of homelessness) in the field of public health. It is now clear that the provision of a home is a prerequisite to health, though it is insufficient on its own. For example, New York City and State laws are unusually progressive in providing a legal right to shelter. However, even so, conditions are often poor, exposing residents to hazards such as vermin and lack of heat or ventilation, and regardless shelters are by definition not intended to be long-term and stable homes (Routhier, 2018). Thus, the current housing crisis urgently raises the question of what a minimum standard for equitable, decent housing with respect to health might entail. Such a vision could inform the establishment of societal consensus and be implemented as a joint policy solution. Housing standards and codes have long prioritized economic development and planning, though they often lack a public health perspective and health-based evidence (Braubach et al., 2011). A number of practical health-focused standards have been developed for individual housing aspects, particularly for hazardous physical deficiencies (e.g., lead paint and mold) and their

impacts on various physical and mental health outcomes (American Public Health Association & National Center for Healthy Housing, 2014; Centers for Disease Control and Prevention, 2013; U.S. Department of Housing and Urban Development, n.d.; World Health Organization, 2018). While these standards offer valuable guidance on physical housing conditions, no one standard encompasses how physical conditions, affordability, residential stability, and neighborhood characteristics act as pathways by which housing affects health independently and collectively.

In this article, we address these gaps by proposing a holistic conceptual model that encompasses four critical health-relevant dimensions of housing, identifies their unequal social patterning and resulting health disparities, and links them to their sociopolitical origins. For this scoping review, we intentionally drew widely and broadly from journal articles, books, and grey literature, across diverse fields including public health, urban planning, history, public policy, and sociology to ensure the representativeness and comprehensiveness of our model and to bring often-unconnected housing insights into the public health discourse. We ask: What features or characteristics are critical to decent housing? What gaps exist in equitable access to such homes today, and how might we address them? Finally, we offer suggestions for a vision for health equity in housing and argue for the urgency of policy intervention. We organized this review in three parts: first, we provide an overview of the historical roots of housing disparities in the U.S.; second, we describe the four pillars of housing and related health outcomes and propose an original conceptual model that highlights the complexity in the association between housing and health; and third, we offer a comprehensive, rights-based, empirically informed vision for healthy housing that ensures access to affordable, stable, good quality housing in safe neighborhoods that support healthy lifestyles for all.

2. The historical roots of housing disparities in the U.S

The unequal burden of housing disparities faced by marginalized populations does not occur spontaneously or naturally; rather it is related to broader structural disadvantages enforced by institutions and individuals (see Fig. 1). Historically, marginalized groups were denied full control over their residential choices through racist and economically exclusionary ideologies that promulgated racial covenants, redlining, exclusionary zoning, involuntary displacement policies, and other mechanisms of patterned residential disadvantage. Limited access to decent, habitable housing in health-promoting neighborhoods among non-White and lower-income groups has also had intergenerational effects (Massey and Denton, 1993; Rothstein, 2017). Contemporary policies and practices continue to reinforce housing disparities through shifts in federal housing assistance policies, sub-prime loan targeting, and housing discrimination (Goetz, 2013; Hall et al. 2015). Thus, structural inequalities and the mechanisms through which they are enacted to deny marginalized groups full control over their residential choices are an important element of the relationship between housing and health equity.

A key driver of contemporary housing disparities has been racial and economic segregation, which remains high in American cities today. As of 2010, the Black-White residential dissimilarity index was 59.1 (Logan, 2013), meaning 59.1% of Blacks would need to move

for each neighborhood to have the same percentage of Black residents as the overall metropolitan area (U.S. Census Bureau, 2002). While this represents a decline, it is still undeniably high. Hispanics are slightly less segregated, with a Hispanic-White dissimilarity index of 48.5, which is still significant and not declining (Logan, 2013). High- and low-income households are also highly segregated, which has only increased as American income inequality increases (Reardon and Bischoff, 2011). Furthermore, 71% of Whites own homes, which is a much higher rate than Hispanics (45%) and Blacks (41%) (Goodman et al., 2018); their homes are also worth more (U.S. Census Bureau, 2013). Because home equity accounts for a large proportion of household wealth, particularly for minorities, this points to an overall wealth gap (Kuebler, 2013). The median wealth of White households today is 10 times that of Black households and eight times that of Hispanic households (Kochhar and Cilluffo, 2017).

High levels of residential segregation and homeownership disparities are rooted in historical practices and policies. In the 1930s-60s, the federal government established the Home Owners' Loan Corporation (HOLC) to provide refinancing assistance to homeowners struggling to pay their mortgages, as well as the Federal Housing Administration (FHA) to underwrite mortgage risk to increase banks' comfort with mortgage lending and therefore increase individuals' ability to access a mortgage. The HOLC used a neighborhood appraisal methodology to determine the riskiness of a loan in a given neighborhood, influencing whether and how much assistance residents of that neighborhood could access. This methodology explicitly considered the racial and ethnic identity and income level of neighborhood residents. The resulting practice of ranking non-White neighborhoods as hazardous and credit-unworthy is referred to as 'redlining.' FHA underwriting guidelines were similarly explicitly exclusionary and only 2% of FHA mortgage insurance was ultimately available to non-Whites (Woods et al., 2014). Private banks also adopted and expanded the reach of these guidelines. The Veterans Administration technically offered to cosign mortgage loans for returning veterans, but in practice, since banks refused to lend to Blacks, they could not access such loans (Woods et al., 2014).

Land-use zoning has also contributed to the formation and perpetuation of exclusionary and unequal residential patterns: Although the U.S. Supreme Court in Buchanan v. Warley found explicit racial zoning unconstitutional in 1917, land-use zoning with exclusionary effects remained a permissible legal option as seemingly race-neutral. Regardless of their intent, such zoning decisions have had an exclusionary impact (Whittemore, 2017). White and/or wealthier neighborhoods that intended to remain as such were frequently zoned as exclusively single-family or otherwise low-density, or implemented building permit caps or moratoria, limiting and precluding the supply of multiunit buildings with lower rents that would have been be affordable to lower-income people and/or people of color (Hirt, 2015). Additionally, minority and low-income neighborhoods have disproportionately been zoned for undesirable uses (e.g., heavy commercial and industrial uses) exposing residents to environmental hazards such as air and noise pollution, traffic and the denial of development of waterfronts for communal rather than commercial purposes. These negative effects contribute to neighborhood segregation, the perpetuation and concentration of less desirable land uses, which combined have negative impacts on property values and the potential for wealth building (Whittemore, 2017). For example, Maantay's (2001) analysis of New York

City's industrial zones from 1961 to 1998 found that rezoning to allow waste-related facilities occurred in areas with higher minority and low-income populations, while conversely, rezoning to decrease such land uses occurred in higher-income and lower minority population areas. Far fewer Blacks and Hispanics live in jurisdictions with anti-density zoning (Pendall, 2000). Similarly, greater metropolitan-area segregation and concentrated poverty is significantly correlated with anti-density zoning (Rothwell and Massey, 2009, 2010).

Although, as noted above, racial zoning was deemed unconstitutional, restrictive racial covenants (provisions in private property deeds specifying that the property could not be sold or rented to Blacks and sometimes other non-White groups) were upheld and widely implemented (Jones-Correa, 2000). Real estate agents also supported segregation through policies and practices that barred introducing "any individuals whose presence will clearly be detrimental to property values in that neighborhood," including due to race or nationality, and even drafted a standard restrictive covenant for clients' use (Jones-Correa, 2000). When Blacks did manage to overcome these barriers and move into White neighborhoods, they faced threats and violence intended to force them to move and deter others from moving in. This violence could be extreme; in Chicago, for example, 58 homes of Blacks who attempted to move into adjacent White neighborhoods were bombed from 1917 to 1921 (Massey and Denton, 1993). In 1948, the Supreme Court ruled in SheRey v. Kraemer that government enforcement of covenants was illegal. However, despite their legal unenforceability, restrictive covenants were still frequently used (Brooks, 2011). Indeed, the FHA continued to recommend the use of covenants in its guidelines for two years after this ruling (Massey and Denton, 1993).

These policies and practices hardened existing lines of segregation (Aaronson et al., 2017), prevented aspiring non-White homeowners from affording homeownership without extreme difficulty while Whites could do so with relative ease, and reduced the potential equity of homes in non-White neighborhoods. The limited housing options available to poor and non-White individuals constrained them to unaffordable, unstable, and poor-quality housing. A dual housing market was in essence created, in which high demand for limited supply of housing in the restricted neighborhoods available to Blacks allowed landlords to charge high rents for overcrowded, poorly-maintained units (Satter, 2009; K.-Y. Taylor, 2012). Furthermore, unequal access to home equity prevented wealth accumulation across generations, limiting marginalized groups' ability to afford healthy housing and saddling them with poorer health associated with socioeconomic status (Chetty et al., 2016). Thus, not only is inability to build home equity a consequence of structural inequalities, it also helps to reproduce and concretize them.

Due to setbacks to legal segregation and still-increasing Black migration to cities, it became increasingly challenging to maintain lines of segregation; this resulted in "White Flight" to the suburbs, creating a starkly segregated pattern of White suburbs and Black cities. Massive federal funding for highways and loan program appraisal criteria favoring suburban neighborhoods subsidized and facilitated the residential shift of White homeowners to suburbia. Thus, the city became increasingly minority and low-income in contrast to the Whiter and wealthier suburbs; disinvestment in urban communities of color quickly

followed (Avila and Rose, 2009). Marginalized populations also bore the burden of mass displacement during subsequent urban renewal—a federal program in which the government displaced residents by razing 'blighted' sites and turning them over at a subsidized cost for private development. The neighborhoods targeted by urban renewal were largely non-White and low-income, to the point that it was dubbed 'Negro removal' (Fullilove, 2001). Additionally, far more housing units were destroyed than were created to replace those that displaced families lost (Carpenter and Ross, 2009; Fullilove, 2001); the public housing subsequently built to replace it was highly segregated by race and class (Rothstein, 2017).

Although Blacks have historically been the largest racial and ethnic minority in the U.S. and the focus of most of the available literature on the origins of housing disparities, they are by no means the only group to have experienced structural impacts to housing. For instance, Latino immigration to the U.S. has increased dramatically: they represented 4.7% of the U.S. population in 1970 but 17.3% in 2010 (Massey et al., 2016). Moreover, for centuries, Native Americans have been forcibly displaced, removed from their lands (often in abrogation of legal treaties) to facilitate expanding White settlement.

Today, these groups face continued barriers to renting or purchasing and maintaining a home, albeit in new forms. In what is often referred to as 'reverse redlining,' poor and non-White neighborhoods were targeted for predatory lending of subprime loans with high interest rates and unfavorable terms, even if they qualified for better loans (Beeman et al., 2011). When the housing bubble burst and the financial crisis hit, these communities were, in turn, adversely affected; Black, Latino, and racially integrated neighborhoods had much higher foreclosure rates than White neighborhoods (Hall et al., 2015). Marginalized populations' vulnerability to losing their home is further exacerbated by laws and policies that place them at risk for excessively high property taxes and fees (Atuahene and Hodge, 2018). Making matters worse, many cities have privatized liens on tax-delinquent properties to generate funding by selling them to private, often for-profit, investors who charge crippling interest rates, add additional fees, and ultimately take away people's property for debts as low as tens of dollars (Kahrl, 2017).

Furthermore, public housing, long a source of affordable housing when none was available in the market, is being reduced. Public housing construction halted in the 1970s, leaving the provision of affordable housing to the private market (Section 8 vouchers and Low-Income Housing Tax Credit); such units can be difficult for residents to secure, and are often less affordable due to rents being set at the market rate rather than as a percentage of household income and located in high-poverty neighborhoods (DeLuca et al., 2013; Mast, 2013; Sharkey, 2012). Housing discrimination based on source of income, though illegal, is rarely enforced and fundamentally threatens housing choice voucher holders, particularly in gentrifying markets and high-opportunity neighborhoods (Aratani et al., 2018). Furthermore, as of 2012, the Department of Housing and Urban Development approve the repositioning of around 20% of the nation's total public housing stock (285,000 units) through the Rental Assistance Demonstration (RAD) Program , including almost all units in some cities (Goetz, 2013). This trend is demonstrated by the HOPE VI program, which rebuilt public housing complexes into lower-density, mixed-income communities and reduced the number of

available public housing units, forcing residents to move and navigate the private housing market with vouchers.

Housing discrimination, which can occur at multiple points in the process of securing a housing unit (e.g., whether a broker or landlord responds to an inquiry and how quickly they do so), still continues (Turner et al., 2013). Many marginalized groups have experienced significant housing discrimination, limiting their ability to select healthy housing and contributing to segregation. Another process, gentrification (the movement of higherincome, often White residents into lower-income neighborhoods) has occurred in many urban areas since the 1990s (Hwang and Lin, 2016), dramatically so in Washington D.C., San Francisco, New York, and Miami. Rising rents and harsh displacement tactics raise concerns for vulnerable long-term residents in the context of gentrification (K. Newman and Wyly, 2006).

In addition to these discriminatory processes, certain groups and locations continue to experience specific issues. For example, there is a severe shortage of any housing, let alone affordable and decent housing, and high rates of homelessness in Native American lands (Pindus et al., 2016); those who live in cities must struggle against poverty and discrimination to find adequate housing (Levy et al., 2017). The U.S. Latino population is highly heterogeneous (e.g., country of origin, foreign-born status, and documentation status) whose subgroups experience significant differences in their geographic distribution and marginalization (Massey et al., 2016). Thus, they may face different types of housing challenges (e.g., urban vs. rural), including the degree and impact of experiences of marginalization. For example, the majority of migrant farmworkers are undocumented Mexican immigrants who have little protection against wage exploitation (Donohoe and Koreishi, 2010); they often must find housing on a tight budget in small rural communities with limited supply and tenants have little recourse due to their social and economic vulnerability (American Public Health Association, 2011).

Altogether, these policies, practices, and other processes that shape social and health disparities make marginalized groups more likely to experience substandard housing and neighborhoods with deleterious health effects, while struggling with affordability and at higher risk for residential instability. The overall result, perpetuated housing disparities, is now entrenched in the American housing experience. These historical roots largely play out via mechanisms described in detail in the following section as what we term the four pillars of housing. In addition to tracing the links to health, we also describe the complexity of housing and health disparities in an original conceptual model.

3. The four housing pillars and associations with health outcomes

We now explore each of the four housing *pillars*, or features of the housing environment, in detail and outline the health outcomes associated with each. The four pillars are: 1) *cost*, 2) *conditions*, 3) *consistency*, and 4) *context*; the "4 C's" of healthy housing. *Cost* represents housing affordability, whether residents can pay the cost of the housing without burden. *Conditions* encompass the adequacy of physical hardware and environmental conditions of the building and unit. *Consistency* describes residential stability and residents' ability to

remain in their home for as long as they desire. Finally, *context* characterizes the presence of positive or adverse health-relevant resources in the surrounding neighborhood.

The full model below (Fig. 2) outlines the unequal structures discussed previously that create housing disparities across the four pillars. In conjunction with various mediators and moderators, these housing disparities then translate into poor health outcomes. Next, we explain each of the pillars and summarize corresponding evidence.

3.1. Cost

Significant disparities exist in housing affordability, including, by income, race, and ethnicity. General societal consensus dictates that lower-income households should not spend above 30% of their income on rent, at which point they are considered 'rent-burdened.' In contrast, wealthier households may have sufficient disposable income to voluntarily spend more than 30% of income for higher-quality housing without being rent-burdened, but lower-income households lack this flexibility. Ninety percent of households below the federal poverty line now meet this definition, but this is true for only 20% of those at 200% or more of the poverty line. About half of Black and Latino households are rent-burdened, compared to only a third of White households (Desmond, 2015).

Affordability has a number of direct and indirect pathways to health, although this link is considerably understudied (Meltzer and Schwartz, 2016). Living in unaffordable housing is associated with poorer self-rated health, hypertension, arthritis, and mental health (Meltzer and Schwartz, 2016; Pollack et al., 2010; Bentley et al., 2011; Burgard et al., 2012). Additionally, unaffordability impacts health indirectly by draining financial resources that could otherwise be used for necessary-health services or prescriptions (Meltzer and Schwartz, 2016; Pollack et al., 2010) and health-related expenses such as food (Fletcher et al., 2009) and child development resources (S. Newman and Holupka, 2016).

Housing operating costs, such as utilities, are also burdensome and consequential for health. Low-income households are more likely to reside in older, poorer-quality, less energy-efficient homes and to allocate a greater share of their income to energy expenditures (Hernández, 2013). Energy insecurity is associated with chronic stress related to worries over energy bills and home conditions and adverse physical health outcomes related to thermal discomfort and related conditions such as excess dampness and extreme home temperatures (Hernández, 2016b).

A prevalent coping strategy among low-income people to address high rent burdens is 'doubling up' and overcrowding, which can provide significant and valuable savings. For example, a study of low-in-come mothers in large cities found that almost 50% had doubled up at some point before their child was nine (Pilkauskas et al., 2014). Despite the financial benefits, overcrowding is associated with adverse health outcomes. Research has demonstrated its link to mental health outcomes (Campagna, 2016), tuberculosis (Braubach et al., 2011), behavioral issues such as hostility (Chambers et al., 2015), and children's educational outcomes (Lopoo and London, 2016), among others. Overcrowding in the home can exert a particularly strong effect on children, who need quiet space to concentrate on schoolwork and have less of a world outside the home (Solari and Mare, 2012).

Homeowners experiencing mortgage delinquency or foreclosure are at higher risk for adverse mental health outcomes, including psychological distress, anxiety, depression, substance use, and suicide (Alley et al., 2011; Tsai, 2015); one study found that Americans over 50 who were mortgage-delinquent were nine times as likely to develop elevated depressive symptoms (Alley et al., 2011). Other evidence points to foreclosure's adverse effect on physical health (Burgard et al., 2012; Cannuscio et al., 2012). As previously discussed, marginalized groups were heavily targeted for subprime loans and were therefore more vulnerable to foreclosure, disproportionately exposing them to these adverse health outcomes.

3.2. Conditions

Numerous physical characteristics of housing can affect the health of its inhabitants. Black, Native American, Hispanic, and low-income homes have higher rates of housing condition inadequacies (Jacobs, 2011; U.S. Census Bureau, 2017). Marginalized populations are more likely to experience a range of factors that determine the likelihood and degree of exposure to harmful conditions in the home such as older deteriorating housing stock, outdated infrastructure, and deferred maintenance; such exposures are often exacerbated by unequal power dynamics between landlords and tenants (Adamkiewicz et al., 2011; Grineski and Hernández, 2010).

Inability to maintain thermal comfort can affect residents' health by interfering with the body's ability to thermoregulate. Cold is associated with depression (Liddell and Guiney, 2015) and a range of physical health outcomes including high blood pressure, respiratory conditions, and general self-rated health (Lloyd et al., 2008; Ormandy and Ezratty, 2012; Pierse et al., 2013). Lower-income residents are more likely to not only experience more difficulty affording any energy bill, but to live in energy-inefficient homes that are more difficult to warm (Hernández, 2016b). Interventions that improve thermal comfort (e.g., insulating) significantly improve physical and mental health and have been robustly examined in the literature (Liddell and Guiney, 2015; Thomson et al., 2013).

Pests can cause and trigger attacks of allergic sensitization and eventually, asthma (Do et al., 2016; Olmedo et al., 2011). Pest prevalence is higher in the homes of marginalized populations (U.S. Census Bureau, 2017), likely because they are more likely to live in dilapidated housing that facilitates entry (Peters et al., 2007; Rauh et al., 2002). As a result, health conditions associated with pests are also more common in these populations; asthma, for example, disproportionately burdens low-income Black and Puerto Rican children (Centers for Disease Control and Prevention, 2019; Holt et al., 2013). Dampness and mold also affect low-income households at a higher rate (U.S. Census Bureau, 2017). The association between such environments and health outcomes has been well-documented, predominantly regarding respiratory health (including allergic rhinitis, persistent colds, asthma, sneezing, and chronic bronchitis), with some evidence pointing to mental health as well (Institute of Medicine (US) Committee on Damp Indoor Spaces and Health, 2004).

A wide range of harmful environmental exposures come from within the home. Lead is highly toxic and exposure to it has well-documented, significant, irreversible adverse health effects, even at low levels (e.g., neurological problems and related cognitive and behavioral

issues) (Centers for Disease Control and Prevention, 2012). Exposure is highly unevenly distributed, concentrated in lower-socioeconomic individuals and neighborhoods (Sampson and Winter 2016). An overlapping inequitably patterned issue is reliable in-home access to safe drinking water free from contaminants (e.g., heavy metals or bacteria) (Balazs and Ray, 2014; McDonald and Jones, 2018). Additionally, secondhand smoke continues to be associated with the deaths of 42,000 non-smokers each year (Max et al., 2012). The 27.6–28.9 million residents of multi-unit housing, mostly disadvantaged group members, that do not allow smoking in their individual units, are still exposed to secondhand smoke each year (King et al., 2013). Accordingly, significant disparities exist in secondhand smoke exposure: 67.9% of Black children are exposed compared to 37.2% of White children each year (Homa et al., 2015), and exposure increases as socioeconomic status decreases (Gan et al., 2015). Other indoor toxic environmental exposures such as levels of numerous pollutants affected by related socioeconomic factors, and thereby may also be associated with socioeconomic disparities (Adamkiewicz et al., 2011).

Physical conditions of the home can also cause injury; the home is the second-most-common location for unintentional fatal injuries (Runyan et al., 2005). Injury is the leading cause of death for people ages 1–44 (Centers for Disease Control and Prevention, 2018), and rates are particularly high for older adults, who are more frail, and young children (Runyan et al., 2005). Housing risk factors for falls include inadequate lighting, lack of window guards, and structural deficiencies (e.g., uneven floors). Meanwhile, lack of functioning smoke alarms, carbon monoxide detectors, sprinklers, and other fire suppression requirements can lead to injury and death. Fire-related injuries and death are higher in lower-income groups, potentially due to their likelihood to live in older homes and homes with greater risks and fewer protections (Gielen et al., 2012; Shai, 2006). Beyond risk of injury, for people with functional impairments, appropriate building design and construction are important for basic access to important home amenities such as kitchen shelving or toilets (Office of the Surgeon General (US), 2009).

Social disorder and crime also occur within multi-unit buildings, thereby affecting residents' sense of safety within residential environments. Historically, given the high degree of isolation and disinvestment in large public housing complexes, crime rates have been high in some buildings, and residents have cited drug-dealing and gangs as major building-related concerns (Popkin et al., 1999, 2002). While such safety is largely a social concern, physical conditions such as the presence or absence of features that restrict access to residents and facilitate surveillance (e.g., properly-locking doors) also contribute to safety concerns (Tillyer and Walter, 2018). Importantly, safety is under-explored in settings beyond public housing, but could potentially arise as a concern in any type of housing or community setting. As will be discussed further in the *Context* section, violence can be a health concern in its own right, but social disorder and fear of violence can also contribute to mental health issues (e.g., stress, anxiety and depression), limit interactions with neighbors, and reduce opportunities for physical activity outside (Hernández, 2016a).

3.3. Consistency

Residential stability encompasses residents' capacity to willingly remain in their homes free from harassment or dispossession. While individuals may move voluntarily for many reasons (e.g., for a new job or a larger home), there are a number of reasons that involuntary moves (displacement) could occur, including inability to afford rising rents or mortgage payments, eviction or foreclosure, natural disaster, and government policies. Scholars variously operationalize residential instability as being behind on rent or mortgage payment, making more than a given number of moves within a given period of time, experiencing homelessness, being evicted, experiencing foreclosure, overcrowding, and/or doubling up (Burgard et al., 2012; Sandel et al., 2018; Vijayaraghavan et al., 2013). High residential mobility rates are largely due to forced displacement, primarily eviction, rather than to voluntary moves (Desmond et al., 2015) and displacement occurs along axes of inequality. Low-income families move far more often than higher-in-come counterparts; 26% of households below the poverty line move each year compared to less than 12% of those above 150% of the poverty line (Ihrke et al., 2011). Furthermore, "serial forced displacement" for marginalized populations describes the compounding effect of multiple instances of displacement over time via various mechanisms (e.g., through gentrification, natural disasters and planned shrinkage). Often, the most marginalized, especially African Americans, are forced to move frequently and against their will (Fullilove and Wallace, 2011; Saegert et al., 2011).

Housing stability has numerous health implications. Evidence indicates that residential instability is associated with a wide range of adverse health outcomes, including poorer self-rated health, health care access, and mental health outcomes (Jaworsky et al., 2016; K. W. Reid et al., 2008; Suglia et al., 2011). Children and adolescents are particularly vulnerable to impacts of residential instability, including poorer overall health, developmental and behavioral problems, and lower school readiness and educational outcomes (Cutts et al., 2011; Ziol-Guest and McKenna, 2014). Precarious employment and low wages impact one's ability to afford healthy housing and other health-related resources (Desmond and Gershenson, 2016).

Health implications have also been identified for specific displacement mechanisms. Mindy Fullilove (2001) proposes that state urban renewal programs affected health through three pathways: 1) directly causing stress; 2) forcibly displacing residents to live in poor housing and/or in unhealthful neighborhoods; and 3) requiring resettlement resource expenditures that could otherwise have been used for health-promoting purposes (e.g., healthy food and recreation). Evidence on contemporary public housing transformation initiatives has similarly often shown disappointing effects for low-income households (Goetz and Chappie, 2010; Keene and Geronimus, 2011). For example, Keene and Geronimus (2011) use the weathering framework to posit that HOPE VI contributed to chronic stress and increased allostatic load through loss of protective social resources, promotion of health-demoting stereotypes about low-income Black communities, and psychological trauma associated with community uprooting.

In the context of climate change, natural disasters are increasingly a major threat for displacement as they can instantly damage and destroy massive amounts of housing.

Marginalized groups' homes are more likely to be adversely impacted by natural disasters and are less likely to be able to return home. Studies of Hurricane Katrina found that Black and subsidized housing residents were less likely to return home following rebuilding, due not only to greater property damage, but also to racially discriminatory government housing programs and policies, including demolition of undamaged public housing units (Green et al., 2013; Kamel, 2012). This permanent displacement was associated with lower likelihood of retaining access to primary care facilities and higher likelihood of adverse mental health outcomes including higher psychological distress, higher perceived stress, and symptoms of severe mental illness (Fussell and Lowe, 2014; Hori and Schafer, 2010).

Residential stability is closely linked to affordability. A major reason that individuals may be housing insecure is because they cannot afford the rent, mortgage payments, or property taxes. Renters typically have less housing security because they are vulnerable to rent increases and, as described earlier, marginalized populations are more likely to be renters. Being behind on rental payments or worrying about having enough money to pay rent is also associated with depression and frequent mental distress (Burgard et al., 2012; Liu et al., 2014). A recent study found that residents displaced from gentrifying neighborhoods experience adverse mental health outcomes, emergency department visits, and hospitalizations (Lim et al., 2017). While eviction is significantly understudied, the limited evidence available indicates that marginalized populations, particularly low-income Black women, are disproportionately affected. For example, in Milwaukee, Black women represent 9.6% of the population but 30% of evictions; one in five reports being evicted in their lifetime, compared to one in 15 White women (Desmond and Shollenberger, 2015). One analysis of low-in-come urban mothers found that evicted mothers were more likely to have depression and to report worse overall health for both themselves and their children (Desmond and Kimbro, 2015).

Finding stability post-displacement can pose significant continued health challenges. Households may need to move very quickly, have few resources to do so, and less ability to compete for scarce housing stock, thereby creating risk of moving to more disadvantaged neighborhoods and future displacements (e.g., in the case of a disaster) (Bullard and Wright, 2009; Desmond and Shollenberger, 2015; Ding et al., 2016). Additionally, landlords look to publicly-available eviction records when screening tenants; therefore, a legal analysis concludes that "any tenant who has been named in an eviction proceeding is effectively barred from obtaining safe, decent, and healthy housing" (Gold, 2016). Thus, residents are limited to a small pool of available, affordable, decent quality housing (Desmond et al., 2015; Gold, 2016). Residential instability also increases employment insecurity; a forced move results in an 11–22 percentage point increase in the likelihood of losing one's job, thus impacting one's ability to afford healthy housing and other health-related resources (Desmond and Gershenson, 2016).

3.4. Context

A rapidly growing body of research indicates that neighborhood characteristics and resources exert an effect on residents' health independent of individual-level attributes. As previously discussed, strong patterns of segregation by race and income persist in American

neighborhoods and there is a well-documented relationship between segregation and concentrated poverty with poor health outcomes (Andersen et al., 2018; Williams and Collins, 2001). This association is likely attributable to the highly unequal distribution of health-relevant neighborhood risk exposures including, for example, violence, the siting of environmental hazards, and aspects of the built environment.

Reliable and affordable public transportation can affect access to health care, and provide means by which to secure employment and engage in other health-related activities (e.g., visiting friends and family, attending religious services or going to the gym) (Mackett and Thoreau, 2015). Relatedly, walkable neighborhoods (Sallis et al., 2009) and availability of green spaces, parks, and playgrounds (Cohen et al., 2007; Han et al., 2013) can increase physical activity and thereby reduce obesity and related conditions. This is particularly important for marginalized groups since they have higher rates of obesity and related health outcomes ("Overweight and Obesity Rates for Adults by Race/Ethnicity," 2017). Green spaces are also linked to reduced stress (Sturm and Cohen, 2014). However, neighborhood disparities exist in walk-ability (Watson, 2016) and in the amount and quality of parks (Duncan et al., 2013; Rigolon, 2016), attributed to unequal access to high-quality resources via conditions of segregation (Arroyo-Johnson et al., 2016; García et al., 2016; Kelly et al., 2007).

A growing concern related to climate change is how features of the built environment can protect against or exacerbate extreme weather, due to increased frequency and intensity of heat waves, warmer weather (Anderson and Bell, 2011; White-Newsome et al., 2012), and flooding (Slater and Villarini, 2016). Elevated heat risk from lack of tree canopy or impervious surfaces (Mitchell and Chakraborty, 2014) is associated with higher neighborhood poverty and higher percentage of minority residents (Jesdale et al., 2013), and correspondingly higher land surface temperature, particularly in highly-segregated areas. Accordingly, there are significant disparities in heat-related morbidity and mortality (Klein Rosenthal et al., 2014; C. E. Reid et al., 2009).

Finally, the presence and condition of certain buildings and facilities can affect residents' health. Robust evidence demonstrates that environmental hazards (e.g., waste processing facilities, Superfund cleanup sites, and highways) are disproportionately sited in low-income communities and/or communities of color (Sicotte and Swanson, 2007), exposing residents to environmental toxins (Bell and Ebisu, 2012). Unsurprisingly, these relationships are stronger in more highly-segregated areas with a larger concentration of marginalized groups (Ard, 2016; Morello-Frosch and Lopez, 2006). Additionally, the presence of blight (i.e., abandoned buildings and lots in a state of visible disrepair) is associated with risk of violent assault (Branas et al., 2012), and correspondingly, evidence indicates that blight remediation programs (e.g., greening lots and remediating doors and windows) reduce firearm violence and stress and increase physical activity (Branas et al., 2011, 2016). Researchers have also found links between blight and fire, which creates injury hazard (Schachterle et al., 2012); adverse birth outcomes (Nowak and Giurgescu, 2017); sexual health implications; and overall mortality risk (Cohen et al., 2003).

Neighborhood institutions, such as retail stores and local services, can also affect health. The availability of supermarkets rather than convenience stores is strongly associated with a healthy diet rich in fruits and vegetables and lower levels of obesity, a relationship that is even stronger for Blacks than for Whites (Larson et al., 2009; Morland et al., 2002). However, low-income and minority neighborhoods disproportionately have more fast-food outlets and lack retailers selling fresh and healthy food (Bower et al., 2014; Kwate, 2008). Similar retail trends are evident for tobacco (Lee et al., 2017) and liquor (Romley et al., 2007). Disparities in healthcare services exist across neighborhoods (Gaskin et al., 2012), particularly in more segregated cities.

Neighborhood social characteristics, too, have been linked to health outcomes. Collective efficacy, a strong sense of social connectedness and solidarity across members of a group, can prevent adverse health outcomes by enforcing positive social norms of behavior, providing a supportive and trusting environment, and advocating more forcefully for desired resources. Violence and crime are a health outcome in their own right. Black, Hispanic, and low-income individuals are more likely to be victims of serious violent crimes (Beard et al., 2017; Sackett, 2015) and to be exposed to violence in their community (Friedson and Sharkey, 2015). Exposure to violence affects mental health (Clark et al., 2008; Curry et al., 2008) and birth outcomes of pregnant women (Kane, 2011; Okah et al., 2014). It can also contribute to numerous acute physical health issues (A. W. Wright et al., 2017; R. J. Wright, 2006) and long-term biological weathering (Aiyer et al., 2014).

3.5. Mediators and moderators between the four pillars of housing and poor health

The pillars of housing do not exist in isolation from one another, but together form a web of housing-related factors that may impact the health and well-being of individuals and households. The effect of any one housing exposure on a health outcome is additionally influenced by other relevant social and housing factors. Furthermore, other forms of social inequality and vulnerability, may also affect the same health outcomes and can moderate or mediate housing exposures' effects. These multiple exposures may have a cumulative impact—an effect that is compounding and exponential, rather than additive (Corburn, 2017). Multiple housing exposures may coexist and affect residents in a single home due to shared origins of structural inequality (Adamkiewicz et al., 2014). Additionally, residents with limited resources may have to make trade-offs in their housing choices (e.g., a less expensive home in a neighborhood with fewer health-promoting resources), accepting hazards in one domain to achieve stability in others (Coley et al., 2014; Hernández, 2016a).

Individuals may have differential susceptibility in their exposure to housing disparities for various reasons, which in turn influence health impacts. From a life course perspective, risk can vary significantly across life stages: children are uniquely vulnerable to adverse effects of environmental exposures due to behavioral and biological characteristics (Landrigan et al., 2010); the prenatal period is also a sensitive window during which the developing fetus may be affected by housing factors (Perera et al., 2012); and the elderly experience increased vulnerability due to the impact of aging and frailty on the body's ability to adapt to stress (Fedarko, 2011). Furthermore, marginalized groups also experience oppression and inequality in many dimensions beyond housing, which interact with housing disparities, as

described previously, but also have a separate effect that can exacerbate the impact of housing disparities. Psychosocial stress due to discrimination and life difficulties while high among racial and ethnic minorities, can, over time, cumulatively disrupt regulation of body systems and impose a physiological burden, resulting in wide-ranging premature health deterioration known as weathering (Geronimus et al., 2006). Emerging research on differential vulnerability suggests that weathering can modify the association between housing exposures and health outcomes, amplifying the adverse effects. For example, the relationship between lead and adverse health outcomes is stronger for marginalized groups who have higher stress and allostatic loads (Zota et al., 2013).

To demonstrate how a health outcome can be influenced by housing disparities across multiple pillars and vary based on the factors described above, we explore the example of asthma – a condition with striking disparities in population distribution (Holt et al., 2013). Asthma is affected by the confluence of and interaction between social inequities and resultant housing disparities. A range of neighborhood and housing aspects are associated with higher asthma risk and are more common among marginalized populations, including traffic-related air pollution, pests, dampness and mold, indoor thermal conditions, and exposure to community violence (Beck et al., 2016; Corburn et al., 2006). Furthermore, asthma is exacerbated by social exposures (Bryant-Stephens, 2009); chronic, toxic stress from accumulated discrimination and disadvantage can not only increase vulnerability to housing factors associated with asthma, but also increase asthma's severity by causing airway inflammation and other physiological changes (Rosenberg et al., 2014). Other risk factors related to asthma (e.g., low birth weight) are also common among marginalized populations (Alexander and Currie, 2017).

These factors interact to create an amplified effect greater than one in isolation. For example, studies have found that exposure to traffic-related air pollution is associated with asthma only when a child has also been exposed to community violence (Clougherty and Kubzansky, 2008), or is more strongly associated when a child or parent has high levels of chronic stress (Chen et al., 2008; Shankardass et al., 2009). Similarly, another study found that the degree of a child's neighborhood racial composition explains whether or not a child with low birth weight developed asthma, pointing to the moderating effect of low birth weight and neighborhood segregation (Alexander and Currie, 2017).

4. Discussion

An expansive body of literature indicates severe health implications of housing insecurity across four pillars that are disproportionately borne by marginalized populations. The philosopher Norman Daniels (2001) has argued that health care has a special moral importance because it enables normal functioning and thus equality of opportunity; we extend this claim to housing. Given the impacts of inadequate housing on wide-ranging aspects of health and well-being, access to decent housing is essential to opportunity. Further, disparities in access to decent housing did not emerge naturally, but were socially produced and imposed upon the marginalized largely through discriminatory private and governmental actions, inequitable policies, and a failure to create protective policies. Housing disparities are fundamentally unjust and merit remedial action because of their

significant impact, their concentration among the most vulnerable, and their socially created and unnatural origins that represent a failure of American government to uphold its responsibilities. Policy interventions that work with public and private housing providers and local authorities to create more equitable housing opportunities are therefore justified and long-overdue.

It is urgent for public health practitioners to act on housing as a tool to reduce, rather than exacerbate, health disparities. To do so, the field of public health should adopt a vision for equitable, healthy housing and identify strategies to achieve it. The vision is articulated as follows:

- Health equity in housing would entail opportunities for all individuals, regardless
 of race/ethnicity, socioeconomic status, household composition, or zip code, to
 benefit from developments in modem building, science, fair maintenance
 practices, community planning, and creative uses of space through programming,
 to foster a culture of health and social connections.
- Indoors: Homes and buildings would be newly built, renovated, and maintained to reflect standards such as energy efficiency, adequate space, appropriate ventilation, good lighting, and smoke-free policies. Meanwhile, hazards such as lead paint, asbestos, mold and pest infestation would be effectively abated.
- Outdoors: Amenities such as green space, community rooms, play areas, and
 quiet zones, along with active design elements such as well-lit and easily
 accessible stairways and walkways, would be standard practice rather than
 luxury items, afforded to renters and homeowners at all income levels and
 adapted for multiple housing types (i.e., multiple-unit housing and single-family
 homes/communities).
- Health equity in housing would also involve development subsidies to expand affordable housing at a wider range of income levels and siting of affordable housing developments in high-opportunity neighborhoods.
- Lastly, land-use and zoning policies would support health-promoting institutions
 and recreational opportunities while also retaining stability for local residents
 and small businesses as new developments are introduced. The distribution of
 hazardous facilities would be more even across communities.

Housing plus health equity strategies should span all four pillars of housing by: 1) encouraging the physical design and programming of residential space to promote health; 2) adopting a health-in-all-policies approach to housing and community development; 3) preserving, improving and better connecting existing affordable housing; and 4) expanding supportive housing options for populations facing the greatest barriers to access. Additionally, given that the origins of housing disparities are rooted in unjust actions and inequitable neglect by policymakers, effectively-targeted solutions to preventing and alleviating housing disparities must occur at the policy level and should include comprehensive solutions to correct past injustices. Furthermore, because the policies and processes that caused housing disparities emerged from a denial of the full humanity and equality of marginalized groups (or what Atuahene refers to as "dignity takings"), and

because housing disparities continue to be exacerbated by inequalities also caused by this denial, this vision should include more than material compensation, but also pathways towards broader integration and empowerment ("dignity restoration") (Atuahene, 2016).

Admittedly, such a vision of housing is rooted in a normative notion of equity and could raise concerns regarding cost. However, costs may be at least in part mitigated by downstream savings. Investments that ensure decent housing quality, stability, affordability and neighborhood conditions could produce cost-offsets, most obviously in health care, but also in sectors such as energy, education, and the economy (Braubach et al., 2011). Public administrators who make siloed decisions about housing or healthcare may fail to recognize how deferred costs in one realm may create additional expenses in the other. For example, asthma caused by deficient housing is not only a health issue, but a social and economic problem; one recent study estimates the total cost of asthma in the United States as \$81.9 billion per year (Nurmagambetov et al., 2018). Poorly controlled asthma results in preventable emergency room visits, lost productivity at work (Akinbami et al., 2011), lower academic achievement, and fewer long-run life chances (United States Department of Labor, Bureau of Labor Statistics, 2018). By these measures, housing investments may be significantly lower-cost than they appear in the long run.

5. Conclusion

This review offers a conceptual model for the relationship between housing and health equity, identifying key aspects of housing that relate to health, assessing exposure disparities, and demonstrating the origins of this unequal exposure in structural inequality. Historically and contemporaneously, race and class have shaped different housing opportunities for marginalized groups in the U.S., such that low-income and racial/ethnic minority groups are more likely to inhabit substandard housing in neighborhoods with adverse health attributes. They also struggle with residential instability and lack of affordability. These housing issues are associated with a comprehensive range of health consequences, whose impact on marginalized residents is especially severe given the likelihood of multiple simultaneous exposures and individual vulnerability due to chronic stress.

The notion that decent housing is a luxury rather than a right presents a fundamental threat to health and social equity. There is a critical need to shift the present discourse, and even more importantly, practice, such that adequate attention is given to the underlying housing conditions that support health, well-being, and a sense of community. Paramount to achieving health equity is recognizing housing as an important source of health and well-being, not just among stakeholders in public health, but also in the multi-sectorial fields that intersect with housing. Advancing this narrative will require interdisciplinary collaboration between clinicians, public health practitioners, city and regional planners, housing developers, and architects to consider the health impacts of housing affordability, conditions, stability, and the surrounding community.

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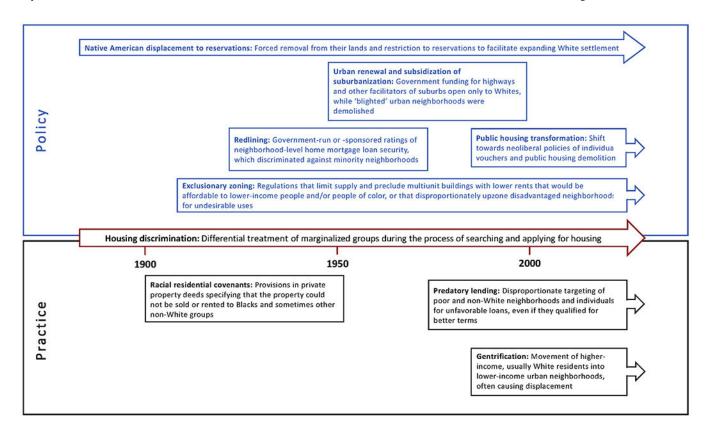


Fig. 1. Policies and practices contributing to housing disparities.

Source: Created by the authors based on the evidence described throughout this section.

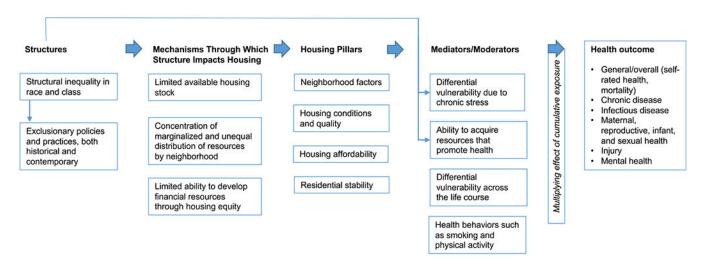


Fig. 2. The housing and health disparities conceptual model.

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Table 1

Existing conceptual models or overviews of housing and health.

Article	Dimensions of housing discussed	Attention to health disparities?	Attention to health disparities? Attention to historical context?
Braveman et al. (2011)	Braveman et al. (2011) - Physical conditions within homes - Conditions in the neighborhoods surrounding homes - Housing affordability	Minor	No
Rauh et al. (2008)	- Environmental conditions within the home and neighborhood	Yes	No
Saegert et al. (2011)	- Not the focus of the model, but largely discuss mortgage foreclosure and serial displacement Yes	Yes	Yes
Taylor (2018)	- Stability - Quality and safety - Affordability - Neighborhood	Minor	No



Park County Housing Coalition 2024 Work Plan

Developing the 2024 Work Plan

The 2022 Park County Housing Action Plan recommends 12 housing and policy tools for implementation.

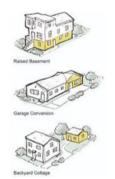
The 2024 work plan prioritizes three tools that can leverage national, state, and local law and policy changes and incorporates ideas generated during community events in 2023:

- Accessory Dwelling Units
- Employer-Assisted Housing Partnerships
- Zoning Reform

12 Tools of the 2022 Park County Housing Action Plan

- LOW-INCOME HOUSING TAX CREDIT
- 2. EMPLOYER ASSISTED HOUSING PARTNERSHIPS
- 3. RESIDENT-OWNED COMMUNITY PROGRAM
- 4. COMMUNITY LAND TRUST
- DENSITY BONUS
- 6. LAND BANKING
- 7. DOWN PAYMENT ASSISTANCE
- 8. ACCESSORY DWELLING UNITS
- 9. GENERAL ZONING REFORM & FLEXIBLE DEVELOPMENT STANDARDS
- 10. REHABILITATION LOANS AND GRANTS
- 11. SHORT-TERM RENTAL REGULATION
 - 12. COORDINATED ENTRY SYSTEM

Accessory Dwelling Unit (ADU) Pilot Program



Known by names like "granny flat," and "alley house," accessory dwelling units are smaller, independent living spaces that share a lot with a larger, primary home. An ADU may be constructed within, attached to, or detached from the primary home.

The coalition's 2022 workforce housing subcommittee recommended facilitating the creation of ADUs. Their endorsement, combined with the state's new law that removes barriers to ADU construction and the Federal Housing Administration's new ADU lending policy, signals that the time is right to pilot an ADU program.



April ADU Financing Course

Join us over lunch to learn how significant institutions like Fannie Mae, Freddie Mac, the FHA, VA, and USDA RD approach financing ADUs. Then, hear from a local panel representing lenders, realtors, builders, and others in the real estate realm about securing financing for ADUs.



Fall ADU Workshop for Homeowners

A workshop series for homeowners who want to contribute to community housing by building an ADU on their property. Workshops will cover key topics such as financing, permitting, construction, and property management. Participants will identify key components of a package that would incentivize them to deed restrict or otherwise ensure their ADUs are available exclusively for long-term rentals by community members.



Park County Housing Coalition 2024 Work Plan

Employer-Assisted Housing Partnerships Pilot Program



GOALS:

- Untether housing from specific jobs
- Support the expansion of the local labor pool
- Improve recruitment and retention
- Help workers establish roots in our community

This program will support employers who want to understand and implement demand and/or supply-side strategies to help their current employees access and remain in healthy housing in our community and improve recruitment and retention rates.



City of Livingston Zoning Reform



GOAL: Assess regulatory and administrative barriers to housing development and ensure changes are clear, complementary, and allow for more abundant housing at the sizes and prices our community members need and can afford.

The coalition will participate in the city's public process, slated to start in June. Activities will include:

- developing educational materials
- conducting policy research
- commenting on proposed changes

Updating zoning codes can help local governments set the stage for accelerated public- and private-sector investment in development projects that advance community objectives, such as housing that is affordable to local workers.



Park County 2023 - 2024 Community Housing Needs

+130%

SINGLE-FAMILY MEDIAN HOME LIST PRICES

> \$649,000 Dec. 2023



\$1,800

ESTIMATED MEDIAN RENT

This amount is affordable for a household earning \$73,000 annually.



It is \$434 more per month than the maximum a median renter household could afford.

28%+

OF PARK COUNTY HOUSEHOLDS ARE COST-BURDENED.

They spend more than 30% of their income on housing.



1/3 OF PARK COUNTY HOUSHOLDS ARE PEOPLE LIVING ALONE

30% RENT

\$49,660

MEDIAN 2022 RENTER HOUSEHOLD INCOME, ADJUSTED FOR INFLATION

\$1,366

MAX AFFORDABLE HOUSING PAYMENT

70% OWN

\$86,190

MEDIAN 2022 OWNER HOUSEHOLD INCOME, ADJUSTED FOR INFLATION

\$2,370
MAX AFFORDABLE
HOUSING PAYMENT





...FOR EVERY STUDIO OR ONE-BEDROOM HOME.



979

221



Number of households earning less than \$19,999 per year.

Number of homes with subsidies available for these households.



What Can Community Members Afford to Spend on Housing?

Homes are affordable when households spend 30% or less of their incomes on housing.



Housing affordability is determined by the incomes of the people living in a household and the costs of their home. When households spend more than 30% of their incomes on housing, it is not considered affordable. Instead, these households are "cost-burdened" by their housing.

How much can workers in Park County's top 5 economic sectors afford?



Professional and Business Services

2023 Average: **\$81,190 (\$39.03/hr)**

Max housing cost: \$2,030/month

Income remaining after max housing payment: \$1,184/week



Education, Healthcare and Social Assistance

Construction

2023 Average: **\$56,700 (\$27.26/hr)**

Max housing cost: \$1,375/month

Income remaining after max housing payment: \$837/week



Leisure and Hospitality
+

Retail Trade

2023 Average: **\$33,000 (\$15.86/hr)**

Max housing cost: \$825/month

Income remaining after max housing payment: \$481/week



A community-based, collaborative effort increasing opportunities for Park County residents to access housing where they can afford to live and thrive.

PHASE I HIGHLIGHTS 2020-2023

Since reconvening in 2020, PCHC's membership has grown to more than 80 Park County residents and partners.





PCHC compiled the best information available on local housing challenges in its 2021 Park County Housing Needs Assessment. One of the assessment's findings was that only 20% of households in Park County earned enough to afford a mortgage for a median single-family home.



PCHC outlined a shared vision and recommended 12 tools to address the community's housing needs in its 2022 Park County Housing Action Plan. Elected officials then adopted the plan as an addendum to the City of Livingston's and Park County's growth policies.

PHASE II PLAN 2023-2026

OBJECTIVES

Hire a full-time, local staff member to represent the coalition and guide Phase II projects.

Implement the 2022 Park County Housing Action Plan.

Sustain and build collaborative partnerships around community housing.



OUTCOMES

Creation and expansion of programs to help Park County residents access existing housing

Increase in supply of homes affordable for Park County residents

Greater local investment in community housing

Recruitment of new funding sources for community housing

Preservation of existing affordable homes

Financial support is necessary to implement the community-supported solutions identified in Phase I.

Join our giving circle today!



Opening front doors for our families, neighbors, and community.

Park County Housing Coalition members on the importance of creating community housing:



"[A] healthy economy works well only when people can afford to live in the area in which they work...And I want to live in a town that helps and supports all of our neighbors."

"[I]t is incumbent on everyone in a community to ensure that all our residents have safe and adequate housing. I am a landlord and still want to implement [the PCHC's] forward-thinking Housing [Action] Plan."





"I have been in several 'on-the-edge' housing situations in my four years of residing in Park county. I also am a good result of finding affordable housing. I want others to be able to have the same opportunity."

"I have seen many friends and colleagues leave the area due to housing issues, and have personally felt the fear and uncertainty that comes from the struggle to find housing for both myself and my 79 year old father. This has caused people to leave an area they loved, and for our area to lose talented people who were assets to the community."



JOIN OUR GIVING CIRCLE!





Southwest Montana Flood Relief Fund













1. Welcome Back

Attendance: Jamie, Hannah, Kris, Carrie, Geoff A

Virtual: Becky

Staff: Katherine, Barb, Lila (virtual)Regrets: Tawnya, Samantha, Grant G.

Announcement: Park County Community Well-being survey

Please take it if you're a Park County resident and encourage others to do so, as well.

Review of January meeting

- We reviewed the draft work plan. We spent a good amount of time discussing our approach to employer-assisted housing partnerships.
 - We discussed the merits of three paths: two centered around community-wide surveys, and one focused on working with a smaller group of employers throughout the year. We decided that a focus on that third way would make the most sense and you asked that Lila and I come up with a program.
- I will review the updated work plan, including the EAHP program in greater detail later in this meeting.
- I heard a good deal of interest in discussing the community investment fund and the establishment of a local housing authority. I am planning those topics for future meetings when Lila will be <u>more</u> available to participate. (Initially, we thought she wouldn't be able to attend.)

Purpose of today's meeting

- Resume learning together again, this time with Hannah at the helm. We're going to be testing out a discussion model that leverages the expertise we have in this group.
 - 1. If we all enjoy it, we'll do it again.
 - 2. Could also become a public engagement tool: e.g., "read along with the PCHC steering committee"
- Review the finalized work plan.
 - 1. I have some updates and details about a couple of the programs.
 - 2. Specifically, I want to discuss how can/would you like to contribute?

This session's consensus-building tip

- Transparency is a key component of building trust.
- To that end: Show of thumbs: Would you be interested in opening up meetings to the public in the next few months?
 - General agreement this is something we want to work towards, but concerns that having more open meetings might derail us from the work we need to do during the meeting. We determined to NOT do this for March but we will discuss in March if we want to do this in April.
 - **a.** Katherine indicates there are some different meeting models we can use to help set some guidelines about what that engagement could look like.
 - **b.** Carrie suggests we start with demonstrating something we are doing, to show that we are in fact making impact.

- 2. Question as to whether we want to have a more public event that is NOT also a Steering Committee meeting
 - **a.** Katherine articulates that she is not getting requests for public attendance yet, but she does want to be mindful that there is some energy in the county around the adoption of the Housing Action Plan.
- 3. Do we want to have a more in-depth discussion of what this would look like at the next meeting?
 - **a.** Yes! See above.

• Who wants to keep time today?

- Becky did it in December and Kris did it last month: Jamie.
- Please give us warnings when we have 5 minutes left and 1 minute left.

2. Discussion led by Hannah W. on Housing & Health Equity (20 min)

- Hannah explains that service providers at Livingston HealthCare ask about housing status and try to connect clients with other needs.
- Katherine shared that she uses the 4-Cs framework (cost, context, continuity, and condition) to review local land use decisions, such as subdivision proposals.
- Questions:
 - Everyone: What role can we each play in advocating for fair housing opportunities?
 - How do housing disparities, like those in the video, impact different groups in our community?
 - How can housing policies contribute to or worsen inequalities in Park County?
 - How can we ensure our efforts to improve housing equity are inclusive of all residents' needs?
 - Jamie: being part of this committee is a start! Hopefully through this SC, we can
 find more ways to address this issue. Video really clearly articulated how this
 issue has so many ripple effects.
 - Geoff: wonders how zoning issues being addressed by the city will avoid any of the "red-lining" impacts that we see in some communities.
 - Hannah wonders if any housing opportunities are focused on those most in need? Lila confirmed that the "Coordinated Entry System" used by HRDC's utilizes assessments to try and determine
 - "who experiencing homelessness is most likely to die from that?" and then prioritizing those individuals. Hannah clarified that the Coordinated Entry System has NOT been being used by LHC, but she is advocating they get re-engaged.
 - Becky: Appreciated the video and made her think about how Park County fits
 within the topics addressed in the video. When driving around town after
 watching the video, confirmed that much of our local low-income housing is in
 poor repair. Wonders what we can do to provide better education about housing
 options? She also mentioned the challenge of finding potential renters who
 actually fit the income guidelines; Katherine mentions that it can be a very
 narrow band of income levels.
 - Kris: also drove around thinking about the video, noticing the lower-income areas that are subject to flooding or in industrial (and therefore not as healthy) neighborhoods.
 - Carrie was really struck by the cyclical nature of housing insecurity. Discussion
 of housing challenges in Gardiner and how this is a microcosm of issues

- throughout the county. Including people who are displaced from their housing during the summer, when their housing gets used as seasonal vacation rentals.
- Both Kris and Carrie acknowledge how <u>depressing</u> it was, so how can our public-facing work be more solution-oriented?
- Barb: Could we potentially expand our efforts from providing ADDITIONAL housing so we are also supporting better maintenance & living conditions in existing housing? Note also that HRDC has a hard time staffing their weatherization program.
 - o Kris mentions that she received a low-interest loan to upgrade her heating system when in Vermont. Also there are Federal funding opportunities for maintenance tasks but who would do the work? See also example of a community that leveraged re-entry workers to do some of this work while they receive job training (for example, re-entry after incarceration).
 - Katherine reflected on the agreement and interest she heard from the group in raising funds to address housing conditions in Park County (one of the four c's in the video and article), which in turn could help people stay in their homes/maintain their affordability.
 - o Lila: shared a link to Enterprise Community Partners' new decarbonization hub, which includes resources that may support this work: https://www.enterprisecommunity.org/decarb-hub/resources
- Barb would also like to see us support the development of more amenities in lower-income areas: I think the Wellness Center is a great example of this.
- Thoughts on starting future meetings with similar conversations about reading, videos, etc.?
 - Some interest in this, perhaps every other meeting? Would depend somewhat on the topic / type of material.

3. Review Updated Work Plan

- Walk through handout.
- ADU pilot program has two components this year
 - Goals are to build community awareness of ADUs and pilot a program that would support homeowners in building an ADU on their property that would be a community asset.
 - ADU Financing Course. Anticipated date of April 11, 2024. Location TBD
 - 1. Hour-long program
 - a. 10-minute welcome
 - **b.** 15-20 minutes review of how Fannie Mae, Freddie Mac, the FHA, VA, and USDA RD approach financing ADUs.
 - **c.** 15-20 minute local panel discussion with lenders, realtors, builders, and others in the real estate realm about securing financing for ADUs.
 - 2. KD is looking into getting CE credits for realtors (and maybe folks working in title?)
 - 3. Who would like to help with this?
 - **a.** Becky is going to be a panelist and help pull together presentation
 - **b.** Kris wonders if there is anyone else outside of our immediate circle who IS certified and could assist with course instruction?
 - Becky is checking to see if Signe or Brooke are already certified instructors.

- ADU workshop for homeowners. Anticipated start date in fall 2024.
 - 1. Multiple sessions covering: financing, permitting, construction, and property management.
 - Participants will identify key components of a package that would incentivize them to deed restrict or otherwise ensure their ADUs are available exclusively for long-term rentals by community members.
 - 3. KD is working on raising \$100K for this.
 - a. These funds would be used to help kickstart efforts to incentivize ADUs. Perhaps a low-interest loan could also help fill this need? The use of the funds will largely be determined by workshop participants.
 - **b.** Waiting to hear from Steele Reese Found. on \$40K letter of interest
 - c. Will submit \$20K to AARP next week funding is unlikely
 - **d.** Will submit a request to LCT (Livingston Community Trust) for \$40 \$60K.
 - i. Barb: Is there any way we can encourage community pressure to have them actually release some funds?!
 - Kris: mentions Montana Community Foundation is about to release a grant to support community assets.

4. Who would like to help with this?

- **a.** Jamie: Most interested in the fall workshop in terms of content, but could also help in April with general event support.
- **b.** Barb happy to share about her experience living in ADUs!

Employer Assisted Housing Partnerships

- Goals:
 - 1. Untether housing from specific jobs
 - 2. Support the expansion of the local labor pool
 - 3. Improve recruitment and retention
 - 4. Help workers establish roots in our community
- Katherine clarifies that this program is not <u>prescriptive</u> but trying to get employers up to speed on the needs of their employees. Also looking into ways that program models within one sector (ie: education) might generate a model that could be used in other sectors (ie: hospitality?).
- Organized around the County's top 5 economic sectors:
 - 1. Education, Healthcare, and Social Assistance
 - a. Katherine is already making progress with Livingston Public Schools to evaluate how they can contribute to the community's solutions. This is an example of what this partnership would look like.
 - 2. Professional and Business Services
 - 3. Construction
 - 4. Leisure & Hospitality
 - 5. Retail
- Might loop in Park Local's business consulting & resiliency team.
- Who would like to help me connect with local businesses in these sectors?
 - 1. Hannah is already helping by connecting me with Livingston HealthCare

- Renegotiated a few more minutes to cover some key issues.
- Zoning Reform Decision to skip past this component of the update.
 - City of Livingston
 - 1. Will really take off June 1st. Focus will be on public education and enhancing engagement
 - 2. Informational handouts
 - **a.** Already created and used a guide to the PUD Ordinance affordability requirements
 - **b.** Might create others (e.g., for URA)
 - Cooke City/Silver Gate/Colter Pass ZAC
 - 1. I'm going to attend one of these upcoming meetings, to be available when housing questions arise.
 - Who would like to be a point-person on zoning reform?
 - 1. Kris?
- Outreach about the 2024 Work Plan
 - 4 presentations so far and the reception has been positive:
 - Livingston HRDC office largely for feedback about framing and messaging and to make sure the information I'm sharing passes the "sniff test" of our service providers.
 - a. Katherine: one issue raised is the lack of housing "mobility"
 - i. SC all concurs this is a major concern for Park County.
 - 2. Park County Community Foundation Board
 - **a.** Lots of interest and positive reception. This led to the submission of a grant with Opportunity Bank for \$10,000. Should hear back on that in mid-March.
 - 3. Gardiner Chamber of Commerce
 - a. Positive reception. I got asked whether we're planning to use the Gardiner and/or Cooke City/Silver Gate/Colter Pass Resort Area District taxes to fund housing. I responded that I'm not budgeting with money I haven't been asked to spend.
 - 4. Livingston School District Facilities Committee
 - a. Positive reception. They are now actively considering development on parcels they own on B St., in downtown Livingston. I've developed information materials for them about what might be possible at those sites. We were supposed to discuss that yesterday, but the meeting got canceled, so stay tuned.
 - **b.** I heard from one committee member that they've been passing along the information I shared in the meeting, so that's great.
 - Scheduled March public presentations:
 - 1. March 12, 12:00-1:30 p.m., Livingston HealthCare Cafeteria
 - **a.** Tabling as part of a LiveWell49 "lunch-and-learn" series
 - 2. March 20th, 5:00 p.m., City/County Complex
 - a. Presentation to the Livingston Consolidated Land Use Board
 - 3. March 19th, 11 a.m., 124 South Main Street, Suite 210, Livingston
 - **a.** Presentation to the Livingston Business Improvement District
 - 4. March 19th, 5 p.m., City/County Complex

- **a.** Presentation to the Livingston City Commission
- 5. March 21st, noon, 303 E. Park Street, Livingston
 - **a.** Presentation to the Livingston Chamber of Commerce
- 6. March 21st, 5 p.m. City/County Complex
 - **a.** Scheduled public comment before the Park County Planning Board this may or may not change. Trying to get clarity from Mike Inman on this before emailing subscribers this information.
- Would any of you like to join me for these?
 - 1. Kris will come to some and help as needed.
 - 2. Jamie also could be talked into this.
 - 3. Recommendation that Katherine recruit Samantha to be at some of the County meetings!
- Additional presentations are being scheduled with:
 - 1. Livingston HealthCare
 - 2. The Community Resource Collaborative
 - 3. The Cooke City/Silver Gate/Colter Pass "zoning advisory committee" I can't remember this body's actual title.
 - 4. Livingston URA
 - 5. Maybe the Livingston Rotary Club and Shields Valley School District
- I am making a video version of the presentations I've been giving, which to date have been somewhat less formal.
- I will be sending out an email to PCHC email subscribers this week with this information, along with a link to a video about our work plan.
- Request from Katherine that SC members let her know of additional groups that might be good destinations for these presentations, for example:
 - 1. Livingston Urban Renewal Agency Geoff would be willing to join this.

5:50 p.m. - Meeting Adjourned.

- 4. KD Updates: Postponing this update to a future meeting.
 - Grants:
 - PCHC Program Manager
 - 1. Livingston HealthCare has pledged \$5K to support my position. Thank you!! They plan to route it through Give-A-Hoot, to take advantage of some matching funds.
 - Applied for \$10K from the Des Moines FHLB Member Impact Fund, with support from Opportunity Bank, who pledged \$2,500 in seed funding. Should hear back toward the end of March. Thank you to Megan at Opportunity Bank!
 - Undetermined funding:
 - Kris mentioned the Montana Healthcare Foundation's Healthy Communities Initiative. We've followed up with Tracy Menuez and will be

meeting with her next week about whether the PCHC's work–or other related projects in Park County–would be a good fit.

- Data: KD is exploring partnerships that will enhance the community's access to good, useful housing data.
 - Headwaters Econ. see if Kris wants to discuss this.
 - PCCF We Will survey?
- **5. Closing & Next Steps** (15 min) 5:15
 - Next meeting is Wednesday, March 27, 2024
 - We will be talking about either the community investment fund or housing authorities!