Appendix A BARHII's SDOH Model Selected Sections Analysis

# Social Inequities: The Social Gradient, Living with Long Term Stress, and Early Life

## The Social Gradient

- 1. A social gradient runs through all societies. In any society, life expectancy is shorter and diseases are more common further down the social ladder (Wilkinson and Marmot, 2003). Californians die at younger ages in neighborhoods where educational attainment is lower, unemployment is higher, and poverty is more widespread (CDPH, 2013).
- 2. Tools and processes are available to help planners tackle the conditions that create or exacerbate poor health (Wilkinson and Marmot, 2003). If planning fails to address these factors, it not only ignores the most powerful determinants of health and wellbeing, it also ignores one of the most important social justice issues facing modern societies.

What is known	Pla	nning Implications and suggested id
<ul> <li>What is known</li> <li>People further down the social ladder usually run at least twice the risk of serious illness and premature death as those near the top (Wilkinson and Marmot, 2003). The effects are not confined to the poor (Wilkinson and Marmot, 2003). Even among middle class office workers, lower ranking staff suffers much more disease and earlier death than higher ranking office workers.</li> <li>Poor social and economic circumstances affect health throughout life (Wilkinson and Marmot, 2003). For millions of families they are perpetuated from one generation to the next, leaving families with few opportunities to make healthful decisions (CDPH, 2013). Disadvantage includes living in poor housing, having fewer family assets, having a poorer education during adolescence, having insecure employment, becoming</li> </ul>	1.       2.	nning Implications and suggested id Life contains a series of critical transitions (V changes can affect health by pushing people Marmot, 2003). Because people who have b in each subsequent transition, planners need earlier disadvantage. Contribute to building grassroots power by r inequities. Find and foster strong community the issue of health inequities and the potent
stuck in a hazardous or dead-end job, trying to raise a family in difficult circumstances, and living on an inadequate income or pension. Both material and psychosocial causes appear to contribute to these differences and their effects extend to most diseases and causes of death Across the USA, these disadvantages tend to concentrate among the same people, and their effects are	3.	partnership with local leaders (Schaff et al., 2 Acknowledge racism. Committing to address establishing trust with community groups ar
<ol> <li>Across the USA, these disadvantages tend to concentrate among the same people, and their effects are profound and cumulative (CDPH, 2013; Wilkinson and Marmot, 2003). Racial and ethnic populations in the US experience a disproportionate burden of health inequities (National Expert Panel on Social Determinants of Health Equity, 2009). Even with graduate degrees, African American mothers face a higher risk of having low birth-weight babies than white women who haven't finished school (National Expert Panel on Social Determinants of Health Equity, 2009). Discrimination in access to health care, screening and treatment further contribute to inequities in health outcomes for minority racial and ethnic groups.</li> <li>The longer people live in stressful social and economic circumstances, the greater the psychological wear and tear they suffer, and the less likely they are to enjoy a healthy old age.</li> </ol>	<ol> <li>4.</li> <li>5.</li> <li>6.</li> <li>7.</li> <li>8.</li> </ol>	sectors. Engage staff from local health departments to health programs and services. Additionally, to equity rather than creating an isolated policy Partner with community organizations. Loca determine policy priorities and activities. Beit commitment to supporting their work, builds grounded in the experiences and perspective ible commitment structures increase long-te Planners can develop and nurture citizen plat the intersection of planning and health. This diverse community members at city hall. Planners can encourage the creation of entry members with opportunities for small busine education beyond high school. Planners need the help of others to unde with land use, zoning and community dev Transportation, Community Developmen
		essential to ensure that efforts are appro health in order to improve health outcom

### eas

Vilkinson and Marmot, 2003). Emotional and material into a more or less advantaged path (Wilkinson and een disadvantaged in the past are at the greatest risk d to create safety nets and springboards to offset

mobilizing residents to address root causes of health y leaders. Identify a champion to raise the visibility of tial for planners to help advance solutions in 2013).

sing the root causes of health inequities is essential for nd helping other institutions focus on equity across

to ensure community priorities are linked to public they can institutionalize local policy efforts for health v initiative.

advocates and community organizations can help ing responsive to these partners demonstrates Is trust across sectors, and ensures that the work is es of local organizations and leaders. Additionally, flexerm engagement and sustainability.

anner academies as a way to increase understanding of approach may also lead to increase participation of

repreneurial incubators which can connect community ess developments that may not require having an

erstand these complex issues and their intersections velopment. A partnership with Public Health, t, Law Enforcement, Schools and Sustainability are priate in addressing these social determinants of nes.

## Living with Long Term Stress

Stressful circumstances make people feel worried or anxious and unable to cope (Wilkinson and Marmot, 2003). Stress is known to damage health and may lead to premature death.

What is known	Planning Implications
<ol> <li>Social and psychological circumstances can cause or exacerbate long-term stress.</li> <li>Long periods of insecurity and lack of supportive relationships are damaging and become more common on lower rungs of the social hierarchy.</li> <li>Continuing anxiety, insecurity, low self-esteem, social isolation, and lack of control over work and home life, can have powerful effects on health (Wilkinson and Marmot, 2003). They increase the risk of poor mental and physical health and premature death (Wilkinson and Marmot, 2003). Physical health is affected when hormonal and nervous systems sense an emergency and prepare individuals for physical flight or fight (Wilkinson and Marmot, 2003). Turning on these stress responses, affects cardiovascular and immune systems (Wilkinson and Marmot, 2003). This matters most when stress is frequent or long-term (Wilkinson and Marmot, 2003). Over the long term, individuals become vulnerable to a wide range of conditions including obesity, infections, diabetes, high blood pressure, heart disease, stroke, depression and aggression.</li> </ol>	<ol> <li>Although healthcare services can treat biolog must be focused upstream to reduce the maj</li> <li>In schools, workplaces and other institutions, security are important to health. Institutions and being valued, tend to be healthier places disregarded, and used (Wilkinson and Marmo Planners can recognize that community-base material needs. In particular, programs and se encouraging community activity, education at combat social isolation, and material and fina</li> <li>Urban design and place-making may be some alleviate community stress. Accessible comm functional amenities, open spaces, playgroun by increasing a sense of place and belonging. human behavior.</li> </ol>

### Early life

The foundations of adult health are laid down in early childhood and before birth (Wilkinson and Marmot, 2003). Support for young children and their families create an impact on health that lasts a lifetime.

What is known	Planning Implications
<ol> <li>High risk among children is significantly related to poor socioeconomic circumstances, and can best be reduced through improved preventive healthcare (before pregnancy, during pregnancy, and early childhood) and education levels of adults and children.</li> <li>Good education can increase parents' awareness of their children's' needs, their receptivity to information about health and development, and their confidence in their own effectiveness (Wilkinson and Marmot, 2003).</li> <li>Poor circumstances during pregnancy and early childhood development are associated with deficiencies in nutrition, insufficient exercise, inadequate healthcare, maternal stress, a greater likelihood of maternal smoking and misuse of drugs and alcohol (Wilkinson and Marmot, 2003). These factors are associated with slow growth, insecure emotional attachment, poor stimulation, and poor emotional support (Wilkinson and Marmot, 2003). They can lead to reduced readiness for school, low educational attainment, problem behavior, and the risk of social marginalization in adolescence and adulthood (Wilkinson and Marmot, 2003). They raise the lifetime risk of poor physical health and reduced physical, cognitive and emotional functioning in adulthood (Wilkinson and Marmot, 2003).</li> <li>Good health habits (e.g., healthy eating and exercise) are associated with good parental and peer group</li> </ol>	<ol> <li>The health of children and their families can be levels of education and providing good access 2003).</li> <li>Support healthy parent-child interactions throug encouraging good parent-teacher relations wit children's emotional and cognitive needs, and social behavior in children (Wilkinson and Mar 3. Ensure good access to healthy food and adeque mothers and babies to reduce the risk of disea 4. Planners can ensure that considerations for be provided as part of the development processes 5. Planners should visit early education schools to to introduce them to planning is and how it the life.</li> </ol>
experiences, good education, and protection from chronic illness.	<ol> <li>Planners can support accessibility to these prozoning, that enable these programs to locate</li> </ol>

gical and psychological stress responses, attention ajor causes of stress.

s, the physical and social environment and material s that give people a sense of belonging, participating es than those where people experience being excluded, not, 2003).

ed programs need to address both psychosocial and services can support families with young children by and rehabilitation to promote healthy coping skills and nancial insecurity (Wilkinson and Marmot, 2003).

ne of the most influential planning areas that can help munity oriented nodes that include well-designed and nds plazas and green areas can help mitigate isolation g. Special consideration of design is critical in directing

be improved in the long run by increasing general ss to preventative healthcare (Wilkinson and Marmot,

rough home visiting, preventing child abuse,

within schools, increasing parental knowledge of nd stimulating prosocial cognitive development and larmot, 2003).

quate social and economic resources for young ease and malnutrition.

breastfeeding spaces and childcare centers are ses for job centers.

s to introduce the future generations and their families this profession helps communities to improve quality of

programs by allowing for appropriate land uses and e in neighborhoods and close to those needing services.

## Living conditions: Physical Environment: Housing, Transportation, Land Use and Air Quality

### Housing

- 1. To foster greater health equity, we must address underlying policies that shape community conditions and opportunities for good health.
- 2. Use tools such as health impact assessments to ensure a focus on health equity. The creation and ongoing application of tools to analyze policies for health equity impacts ensures resources are appropriately targeted.

What is known	Planning Implications
<ol> <li>Low-income residents and people of color often face barriers to good health, such as dilapidated housing, poor air quality, underfunded schools, limited access to healthy food and parks, and few economic opportunities.</li> <li>These conditions are linked to higher rates of asthma attacks, obesity, diabetes, heart disease, and mortality. For instance, an African American born in West Oakland, California, can expect to die 15 years earlier than a white child born in the Oakland Hills area of California (Schaff et al., 2013).</li> <li>Discriminatory policies and practices tied to race and socioeconomic status have resulted in disinvestment in low-income communities and communities of color (National Expert Panel on Social Determinants of Health Equity, 2009). For example, redlining, a "practice where banks refused to grant home-purchase loans in certain areas based on their ethnic/racial composition," prevented people of color from buying homes in certain neighborhoods. This practice limited their ability to accumulate wealth, leading to a reduced tax base and decreased capital investment in critical community infrastructure (e.g., schools, parks, and businesses). Other policies have similarly diverted critical resources away from low-income communities of color (National Expert Panel on Social Determinants of Health Equity, 2009).</li> </ol>	<ol> <li>Strategic Partnerships: Partner with government focus to advisory boards such as Transportation working groups, the School District strategic pl</li> <li>Advocacy: Improving health involves improving full and productive role in the life of their come educational failure, exclusion and deprivation,</li> <li>The use of Health Impact Assessment may be and detriments as a result of proposed housing</li> <li>Planners should be well versed on the implicate effectively dismantle existing remnants in hour Social capital can be built in vulnerable community with city and county governments and communeighborhood conditions (walkability, complete</li> <li>Decisions and plans made by the transportation whether communities and streets are designed design of communities and streets through roa building codes76 and improve the pedestrian of building design.85 This sector is also integral in systems.</li> </ol>

nent institutions across sectors to bring a health equity tion Commissions, community and technical advisory planning task forces, etc.

ing housing standards and enabling all citizens to play a mmunity. It requires reducing the impact and levels of on, and insecurity and unemployment.

e a useful tool to evaluate the distribution of benefits ing developments.

cation of historical "redlining" practices in order to ousing polices and practices.

munities by empowering residents to act in partnership nunity-based organizations to improve their ete streets,

tion, land use, and community design sector can affect ned to support walking. This sector can change the oadway design standards, zoning regulations, and n experience through landscaping, street furniture, and in the planning and implementation of public transit

### Transport

Healthy transport means less driving and more walking and cycling, backed up by better public transport (Wilkinson and Marmot, 2003).

What is known	Planning Implications
<ol> <li>Cycling, walking and public transport promote health by providing exercise, reducing fatal accidents, increasing social contact, and reducing air pollution (Wilkinson and Marmot, 2003). Regular exercise promotes a sense of wellbeing and protects against heart disease, limits obesity, diabetes, and depression (Wilkinson and Marmot, 2003). Cycling, walking and public transit also increase the level of social interaction on the streets (Wilkinson and Marmot, 2003). Cycling, walking and public transit also increase the level of social interaction on the streets (Wilkinson and Marmot, 2003). Cycling, walking ond traffic decreases harmful pollution and reduces motor vehicle-related injuries and deaths (Wilkinson and Marmot, 2003).</li> <li>Well planned urban environments which separate cyclists and pedestrians from car traffic increase the safety of cycling and walking (Wilkinson and Marmot, 2003). Transport policy plays a key role in reducing sedentary patterns by reducing reliance on cars, increasing walking and cycling, and expanding public transport.</li> <li>Roads divide communities and one side of a street from another; with fewer pedestrians, streets cease to be social spaces and pedestrians may become isolated and face increased risk of attack (Wilkinson and Marmot, 2003). Furthermore, suburbs that depend on cars can isolate people without cars, especially the young and old.</li> </ol>	<ol> <li>Nationwide and local efforts to promote public people's dependence on cars and counter the on private cars for transportation (Wilkinson</li> <li>Public transportation should be improved for connections for suburban and rural areas (Wilkinson and rural areas (Wilkinson are needed such as convuse of pedestrians and cyclists, increasing bust town suburbs and supermarkets (Wilkinson a cycling and walking in smaller towns.</li> <li>Planners should fully understand the negative on moving cars. Planners should approach de perspective that takes into consideration how</li> </ol>
Social isolation and lack of community interaction are strongly associated with poorer health (Wilkinson and Marmot, 2003).	access opportunities and services.

ublic transportation, cycling and walking can reduce the negative health effects associated with dependence on and Marmot, 2003).

For longer journeys with regular and frequent Wilkinson and Marmot, 2003).

nverting roads to green spaces, dedicating roads for the ous and cycle lanes, and stemming the growth of out-ofn and Marmot, 2003). Roads can give preference to

tive impacts on health as a result placing greater focus development review from a multi-model mobility ow people move and how far they have to travel to

## Land Use

The way land is used can impact health determinants and health outcomes.

What is known	Pla	anning Implications
1. The physical design and social and business structures of neighborhoods determine some health pathways. Our choices are often limited by our environments. For example, where there is a high concentration of "unhealthy" goods and services, such as liquor stores and fast food restaurants, people's health behaviors and perceptions about the neighborhood are shaped accordingly (ACPHD, 2008). Similarly, the locating of pollution-releasing facilities (diesel bus depots, hazardous waste sites) in residential areas reveals land use decisions that disproportionately burden low-income communities with an excess of air toxics that, in turn, result in serious health problems.	2.	Engage communities in decision-making abo One tool planners can use to inform commu development policies or proposals is the He apply available research about health impac based recommendations to inform decision typically six-step process or procedure that or project on a given population, with the ai
<ol> <li>Decisions about land-use planning and regulation are often made without specific review or discussion of the potential health consequences (Salkin and Ko, 2011). For example, public health professionals assert that development that does not enable physical activity (no sidewalks, dangerous intersections, poorly lighted areas), access to healthy food (no grocery stores, farmers' markets, or other convenient opportunities to obtain fresh food), or provide for clean air and water can reduce positive health outcomes and lead to increases in obesity, heart disease, asthma, and other preventable illnesses (Salkin and Ko, 2011).</li> <li>Residential segregation is the spatial stratification of neighborhoods resulting in economic, educational, housing and other policies and practices that unfairly disadvantage many racial and ethnic groups (National Expert Panel on Social Determinants of Health Equity, 2009). Despite the passage of civil rights legislation, segregation continues to be a problem. Major disasters such as Hurricane Katrina revealed the plight of marginalized</li> </ol>	3.	Specifically, HIA can convert public health da maker in planning a new program or policy. policy, program, or project on the health of within the population, and therefore can be obtained from an HIA regarding land use de on quantitative and qualitative data and scie Good housing, health-conscious zoning, land form base codes and strong crime prevention A broad range of policies can shape much be reliable and affordable transportation, social
communities and showed how systemic poverty exposes large populations to danger during disasters (National Expert Panel on Social Determinants of Health Equity, 2009).	5.	buffer the impacts of living in poorer neight 5. Adoption of Healthy City Resolutions, He Design into Design Guidelines can advance a and community levels.

about locally wanted and unwanted land use. munity decisions about the health implications of Health Impact Assessment (HIA). <sup>1</sup>The goal of HIA is to pacts to specific land-use questions to develop evidenceon-making (Salkin and Ko, 2011). HIA is a practical, at is used to judge the potential health effects of a policy aim of maximizing the proposal's positive health effects. data into practical information that is useful to a decision cy. HIA systematically evaluate the potential impact of a of a population and the distribution of those effects be a valuable tool in land use planning. Information decisions can be used to predict health outcomes based cientific findings.

andscaping/urban greening that incorporates tree canopy, tion can make communities healthier and safer.

better community conditions. Access to health care, cial supports and a fair criminal justice system will help hborhoods.

Health Elements into General Plans, incorporating Active e achieving positive health outcomes at the neighborhood

<sup>&</sup>lt;sup>1</sup> Salkin and Ko (2011). The Effective Use of Health Impact Assessment (HIA) in Land-Use Decision Making, Zoning Practice, October 2011. http://www.healthimpactproject.org/resources/document/Salkin-201\_Effective-Use-of-HIA-in-Land-Use.pdf

## **Air Quality**

- 1. Almost 160 million persons live in areas of the United States that exceed federal health-based air pollution standards (Laumbach, 2010). The two air pollutants that most commonly exceed standards are ozone and particulate matter.
- 2. Protecting health and the environment are essential for sustainable development in any modern society.

What is known	Planning Implications
<ol> <li>Ozone and particulate matter can harm anyone if levels are sufficiently elevated, but health risk from air pollution is greatest among vulnerable populations (Laumbach, 2010).</li> <li>Children, older adults, and other vulnerable persons appear to be more sensitive to lower levels of air pollution (Laumbach, 2010). Sensitivity to ozone pollution is strongly associated with unemployment or lower occupational status (Bel, Zanobetti and Dominici, 2014).</li> <li>Both ozone and particulate matter can cause pulmonary inflammation, decreased lung function, and exacerbation of asthma and chronic obstructive pulmonary disease (Laumbach, 2010; Sousa, Alvim-Ferraz and Martins, 2013). Particulate matter is also strongly associated with increased cardiovascular morbidity and mortality. Studies have linked air pollution with the incidence of acute coronary artery events and cardiovascular mortality (Teng, Williams, Bremner, Tohira, Jacobs and Finn, 2014).</li> </ol>	<ol> <li>Persons who are aware of local air pollution I Protection Agency as the Air Quality Index, ca include measures to limit exertion and time s and to reduce the infiltration of outdoor air p</li> <li>Planners can reduce exposure to diesel partic neighborhoods; enforcing the no-idling law n new ships and trucks; reducing emissions in e federal emissions reductions regulations.</li> <li>Study the impact of trucking and shipping op</li> <li>Incorporate public health input on air pollutic decisions.<sup>2</sup></li> <li>Environmental Impact reports should include respiratory related diseases. This area of an health departments.</li> <li>While advocating for walking, biking and tran quality, we recognize that many people will n by incentivizing zero emission vehicles/electr in electric vehicle charging stations.</li> </ol>

levels, reported daily by the U.S. Environmental can take action to reduce exposure; these actions spent outdoors when air pollution levels are highest, pollutants into indoor spaces.

ticulates by eliminating diesel trucks in residential near schools, requiring the use of clean technology in existing fleets; and implementing existing state and

operations on low-income and vulnerable populations. tion impacts in local land use planning and development

le full analysis of the correlation of air pollution and nalysis should be done in collaboration with local public

ansit use is the most desired approach to improving air not give up their cars. Planners can improve air quality tric vehicle use by providing parking reductions for plug-

<sup>&</sup>lt;sup>2</sup> Life and Death from Unnatural Causes, Health and Social Inequity In Alameda County, Alameda County Public Health Department, 2008.

## **Economic & Work Environment**

## Work and Unemployment

Job security increases health, wellbeing, and job satisfaction (Wilkinson and Marmot, 2003). Workplace stress increases the risk of disease. People who have more control over their work have better health (Wilkinson and Marmot, 2003). Higher rates of unemployment cause more illness and premature death.

-	What is known	Policy and Planning Implications
	<ol> <li>Typically, having a job is better for health than having no job; job insecurity increases anxiety and depression, and heart disease risk (Wilkinson and Marmot, 2003). Very unsatisfactory or insecure jobs can be as harmful as unemployment. It is now known that health effects begin when people feel their jobs are threatened, long before they become unemployed (Wilkinson and Marmot, 2003).</li> <li>Work environments, social relations at work, and management styles all contribute to stress and social status differences in health, illness, and premature death (Wilkinson and Marmot, 2003). Health suffers when people have little opportunity to use their skills and have low decision-making authority (Wilkinson and Marmot, 2003). Jobs with high demands and low levels of control over work are most strongly related to illness and absence</li> </ol>	<ol> <li>Improved work hours and conditions at work productivity, and opportunities to create a he</li> <li>Appropriate involvement in decision-making k (Wilkinson and Marmot, 2003). Thus involving environment, increases employee control and income, self-esteem, and overall health.</li> <li>Workplace health and safety protections shou appropriately trained providers and appropriately</li> </ol>
	<ul><li>from work. In addition, receiving inadequate rewards for work input is associated with cardiovascular risk (Wilkinson and Marmot, 2003).</li><li>3. Social supports at work appear to offer protection from workplace stress.</li></ul>	<ol> <li>Access to credit unions and banks may be ber</li> <li>Planners should think about the potential for for their own community members as part of</li> </ol>
	4. Unemployment puts health at risk; after allowing for other factors, unemployed people and their families suffers a substantially increased risk of premature death (Wilkinson and Marmot, 2003). The health effects of unemployment are related to psychological and financial consequences, especially debt.	<ol> <li>Planners should be involved in diversifying the event that a main industry collapses, opportulines of work and new job training programs a</li> <li>In many communities small business accounts consideration to preserving these small communities sma</li></ol>

k lead to a healthier workforce, leading to improved nealthier workplace.

benefits employees at all levels of an organization ng employees in the design of their work and their nd has the potential to improve job satisfaction,

ould also include workplace health services with riate interventions.

eneficial for reducing debt.

or short term and long term employment opportunities of entitlement processes.

he local economy. As such, they can ensure that in the tunities for community members to enter a variety of are available.

nts for the largest sector of jobs. Planners need to give nmunity businesses, which employ local residents.

## **Poverty and Income Inequality**

People who live with poverty have disproportionately worse health outcomes than other Americans. Childhood poverty can negatively impact health across the life course and possibly affect future generations by disrupting neurocognitive and biological mechanisms needed for achievement.

Wh	at is known	Planning Implications
i	Poverty <sup>3</sup> denies people access to good housing, education, transport and other factors vital to full participation n life (Wilkinson and Marmot, 2003).In recent years, income disparities reached levels that were last seen during the Great depression (National Expert Panel on Social Determinants of Health Equity, 2009).	<ol> <li>Public health policies can remove barriers to h Labor market, education and social policies ar discrimination, social stratification, and pover</li> </ol>
	As the income gap has grown between those who are wealthy and those who are poor, so has the gap in life expectancies. People in the highest socioeconomic groups can expect to live 4.5 years longer than those in the owest socioeconomic groups (National Expert Panel on Social Determinants of Health Equity, 2009). Poverty and deprivation have a major impact on health and premature death (Wilkinson and Marmot, 2003). The stresses of living in poverty are particularly harmful during infancy, pregnancy, childhood and old age (Wilkinson and Marmot, 2003).	<ol> <li>Social capital can be built in vulnerable comm with city and county governments and commu neighborhood conditions (Alameda County Pu</li> <li>Neighborhood-level strategies can address un and resiliency factors (Alameda County Public</li> <li>Planners can modify land use and zoning barr</li> </ol>
t S	Health can be compromised by living in neighborhoods blighted by concentrations of deprivation, high unemployment, poor quality housing, limited access to services, and a poor quality environment (Wilkinson and Marmot, 2003). The greater the length of time that people live in disadvantaged circumstances, the more likely they are to suffer from health problems like cardiovascular disease (Wilkinson and Marmot, 2003). Poverty and social exclusion increase the risks of divorce, illness and disability, and social isolation. The chances of living in poverty are heavily weighted for some social groups (Wilkinson and Marmot, 2003).	<ul> <li>neighborhoods to flourish.</li> <li>5. Improving quality of life in disadvantaged neightop priorities for planners, planning commission</li> <li>6. Access, or lack thereof, to transit and transpond contributors to residents remaining in poverty contributes to poverty and income inequality.</li> </ul>
	Those most at risk include the unemployed, ethnic minority groups, refugees and homeless people (Wilkinson and Marmot, 2003).	

- b health care, social services and affordable housing. and legislation offer some protection from
- erty (e.g., through minimum wage guarantees).
- munities by empowering residents to act in partnership munity-based organizations to improve their
- Public Health Department, 2008).
- unfavorable social conditions, and increase protective lic Health Department, 2008).
- arriers that may be preventing disadvantaged
- eighborhoods and communities should be one of the sioners and elected officials.
- portation options is often one of the greatest
- rty. Inability to access education, jobs and healthcare ty.

<sup>&</sup>lt;sup>3</sup> Absolute poverty is the lack of the basic material necessities of life. Relative poverty is defined as living with 60% of the national median income.

## Social Environment: Social Exclusion, Social Cohesion, and Support

## Social Exclusion, Social Cohesion, and Support

- 1. Social exclusion and discrimination cause hardship, resentment, and premature death. Reducing social and economic inequality and social exclusion can lead to greater social cohesion and better health.
- 2. Social cohesion is defined as the quality of social relationships and the existence of trust, mutual obligations and respect in communities and wider society (Wilkinson and Marmot, 2003). Friendships, good social relations and strong supportive networks improve health at home, work and in the community.

What is known	Planning Implications
1. Social exclusion results from processes like racism, discrimination, prejudice, hostility, and stigma which prevent people from participating in education and training, and gaining access to employment, housing, services and social activities (Wilkinson and Marmot, 2003).	<ol> <li>Interventions to reduce poverty and social exists individual levels. The social fabric of neighbor be connected and supported and feel that the</li> </ol>
2. Being excluded from the life of society and treated as less than equal leads to worse health and greater risk of premature death (Wilkinson and Marmot, 2003). Social isolation and exclusion are associated with increased rates of premature death. They are socially and psychologically damaging, materially costly, and harmful to health. People who receive less social and emotional support are more likely to experience less wellbeing, more depression, greater risk of pregnancy complications, and high levels of disability from chronic diseases (Wilkinson and Marmot, 2003). People who live in (or have left) prisons and psychiatric hospitals are particularly vulnerable.	<ul> <li>of their families. All residents need to have a s</li> <li>Strengthen community capacity building effor Public Health Department, 2008; Schaff et al.,</li> <li>Improving the social environment in schools, valued and supported in multiple areas of the mental health (Wilkinson and Marmot, 2003).</li> <li>Designing facilities to encourage meetings and</li> </ul>
3. Social support and good social relations are strong contributors to health. Good social relations can reduce physiological responses to stress, improve recovery from disease, and pregnancy outcomes in vulnerable women (Wilkinson and Marmot, 2003).	safety, communication and mental health, an 5. Urban Design and place-making are tools avai 6. Planners should have above-average cultural-
<ol> <li>Social support gives people the emotional and practical resources they need; belonging to a social network makes people feel cared for, loved, esteemed and valued, and encourages healthy behavior (Wilkinson and Marmot, 2003). This has a powerful effect on health.</li> </ol>	the complexities and the value of community
5. Access to social support varies by social and economic status (Wilkinson and Marmot, 2003). Social isolation and exclusion are exacerbated by poverty.	
6. Whereas high levels of mutual support increases trust and protects health, social and income inequality breaks down social cohesion and good social relations (Wilkinson and Marmot, 2003).	
7. Communities with high levels of income inequality tend to have less social cohesion and more violent crime and disease (Wilkinson and Marmot, 2003).	

exclusion are needed at both the neighborhood and orhoods needs to be strengthened. Residents need to hey hold power to improve the safety and well-being a sense of belonging, dignity and hope.

forts using a place-based approach (Alameda County l., 2013).

s, the workplace and communities helps people to feel neir life and contributes to health, especially their 3).

nd social interaction in communities can improve and add to vibrancy of public areas.

vailable to planners to enhance social cohesions. al-competency skills. As such, they can better discern ty needs and wants.

## **Risk Behaviors**

## Violence and Safety

What is known	Planning Implications
<ol> <li>Violence and safety affect everyone's health, not just perpetrators and victims of violence.</li> <li>In addition to contributing to death and disability, violence exacerbates various chronic diseases by inducing chronic stress and fear, which in turn evokes unhealthy physical responses (e.g. high blood pressure), confines residents to their homes and eliminates the health benefits of walking or bicycling to jobs, stores, and services.</li> <li>Residents in high crime areas mistrust neighbors and public institutions leading to further social disintegration, which perpetuates further violence and stifles economic development.</li> <li>Poverty and educational attainment are significantly associated with violence. Victims with low educational attainment or who live in high poverty neighborhoods, commonly account for fatal intentional injuries, one of the highest among causes of death.</li> </ol>	<ol> <li>Upstream policies and programs that influent also in turn, reduce violent crime. Local and se health policies and programs to approach pult considered social determinants of health.<sup>4</sup></li> <li>Traditionally, health and law enforcement inst to violent crime despite the interconnected netween public health essential services and historically separate downstream and upstre violence.<sup>5</sup> Planners should be involved as a transference of the prevention Through Environate Crime Prevention Through Environate and analyzed. Cross-sector expertise can then be shared to and interventions to prevent violence.</li> </ol>

### Addiction

The use of alcohol, tobacco and drugs is influenced by the wider social setting in which people live, work and play. Addictive substances are often a response to social breakdown and an important factor in worsening health inequities (Wilkinson and Marmot, 2003).

What is known	Planning Implications
<ol> <li>Alcohol dependence, illicit drug use and cigarette smoking are all markers of social and economic disadvantage (Wilkinson and Marmot, 2003). Often used to numb the pain of harsh socioeconomic conditions, addictive substances may offer users the illusion of an escape from adversity, but dependence can lead to downward social mobility (Wilkinson and Marmot, 2003).</li> </ol>	<ol> <li>Dealing with problems of addiction is a societa succeed if we address the complex social and (Wilkinson and Marmot, 2003).</li> <li>Managing legal alcohol and drug use requires</li> </ol>
2. The impact on health is profound.	patterns (Wilkinson and Marmot, 2003). But s
<ol> <li>Social deprivation - whether measured by poor housing, low income, lone parenthood, unemployment, or homelessness - is associated with high rates of smoking and low rates of quitting (Wilkinson and Marmot, 2003). Smoking constitutes a drain on personal income and is a significant cause of ill health and premature mortality.</li> </ol>	<ul> <li>(Wilkinson and Marmot, 2003). It requires that which addictions are deeply rooted (Wilkinson 3. Interventions are needed that reduce the ava young people for marketing and promotion.</li> </ul>
<ol> <li>The use of addictive substances is fostered by aggressive marketing and promotion by transnational corporations and organized crime (Wilkinson and Marmot, 2003). Their activities are a major barrier to efforts to reduce use, especially in the case of tobacco.</li> </ol>	<ol> <li>Land use regulations and zoning may be a use neighborhood level. The long term addiction heath than short term economic benefits as a that legally sells addictive substances.</li> </ol>

<sup>&</sup>lt;sup>4</sup> Applying Social Determinants of Health: Indicator Data for Advancing Health Equity (Bay Area Regional Health Inequities Initiative. Unpublished; Available at: http://barhii.org/resources/downloads/sdoh indicator guide sample.pdf; Accessed August 1, 2014). <sup>5</sup> Application of **Uniform Crime Reports** and local public safety indicators to reduce crime and promote physical activity

nce poverty, educational attainment and others can state health departments are adopting upstream ublic health issues, particularly those that are

nstitutions have acted independently in their responses ness of its causes and consequences. Partnerships d community stakeholders can integrate these eam services into a holistic approach to prevent thinking partner to explore how existing planning nd violence occurrences. Many Planning Departments ronmental Design (CPTED) principals into their policies. artments and local law enforcement departments so contributing social and environmental factors can be

o identify or design appropriate services, infrastructure

etal issue. Treatment and policy interventions will only d economic circumstances that foster addictions

es support for people who have developed addictive shifting responsibility to the end user is ineffective hat we address the patterns of social deprivation in on and Marmot, 2003).

ailability of addictive products and the recruitment of

seful tool to reduce substance abuse at the n prospect may be more detrimental to community a result of granting occupancy permits to an operation

Food	
What is known	Planning Implications
<ol> <li>Good diet and adequate food supply are central for health and wellbeing (Wilkinson and Marmot, 2003). Food shortages and lack of variety cause malnutrition and deficiency diseases; excess intake contributes to obesity, diabetes, cardiovascular and other chronic diseases (Wilkinson and Marmot, 2003).</li> <li>People's food choices are determined more by the availability, cost and nutritious quality of food than by health education (Wilkinson and Marmot, 2003).</li> <li>Social and economic conditions result in a social gradient in diet quality that contributes to health inequalities (Wilkinson and Marmot, 2003). Poor people tend to substituted cheaper processed foods for fresh foods (Wilkinson and Marmot, 2003). People on low incomes (e.g., young families, elderly people, and the unemployed) are least likely to eat well.</li> </ol>	<ol> <li>Government agencies, nonprofit organizations         <ul> <li>a. support for and access to sustainable and l</li> <li>b. a stronger culture of food health, especially preparing food and eating together; instea (Wilkinson and Marmot, 2003);</li> <li>c. the integration of public health perspective food for all, especially the most vulnerable,</li> <li>d. Democratic decision-making and accountal</li> </ul> </li> <li>Land use and zoning regulations may assist co production and distribution systems.         <ul> <li>a. support for use of organic waste in compore benefits including new local business and j</li> </ul> </li> </ol>

ons and food organizations can ensure d local food production and distribution; ally for school-aged children, to foster the value of ead of the proliferation of processed or fast food

ives in the food system to provide affordable nutritious lle;

tability in food regulation.

communities in the development of locally grown food

posting and bio-fuel production provides multiple d jobs while improving air quality.