## **HOUSING AND HEALTH**

## **Housing Determines Health**

<u>United Nations</u><sup>i</sup> declare that the human right to adequate housing is more than just four walls and a roof. It is the right of every woman, man, youth and child to gain and sustain a safe and secure home and community in which to live in peace and dignity. Whether one has accessible, affordable, safe, healthy<sup>ii</sup> and stable housing affects one's ability to attain full health potential. Those with fair and equitable access to attainable and stable housing experience less stress and better mental well-being. Conversely, homeless individuals and families are constantly exposed to high health and safety risks<sup>iii</sup>.

Housing location has a direct link to access to opportunities. Locating affordable and attainable housing near living wage jobs, schools, parks and other amenities can reduce cost burdens for every household, improve our economy, enrich social life, support health, and improve quality of life. Healthy and adequate housing meets basic human needs and minimizes threats to health and safety, such as allergens and other hazards. Resilient housing located away from potential hazards can lessen the stresses of the changing climate, increase household and community resiliency, and prevent negative health impacts.

# The Logic Model

Input/Impact Area	Strategies/Policies	Intermediate Outcomes	Ultimate Outcomes
Accessibility and Location	<ul> <li>Ensure job-housing balance in compact centers to minimize commuting.</li> <li>Promote access to housing in walkable, complete neighborhoods with employment and other opportunities.</li> <li>Create mixed-use, compact developments in growth areas served by transit.</li> <li>Co-locate housing within walking distance of transit, services and amenities.</li> <li>Plan for housing growth linked with public investments including high-capacity transit.</li> <li>Locate affordable housing in opportunity-rich neighborhoods.</li> </ul>	<ul> <li>Reduced housing + transportation cost burden.</li> <li>Increased family retention of wealth and disposable income for nutritious food, health care and recreation.</li> <li>Improved economy and local businesses.</li> <li>Reduced physical inactivity and emotional stress caused by commuting.</li> <li>Reduced burden to emergency rooms.</li> </ul>	<ul> <li>Reduced health disparities.</li> <li>Improved emotional and mental health.</li> <li>Reduced obesity and improve physical health.</li> <li>Increased social, environmental and physical capitals.</li> <li>Improved population health and quality of life.</li> <li>Improved neighborhood safety and sense of community.</li> </ul>

Input/Impact Area	Strategies/Policies	Intermediate Outcomes	Ultimate Outcomes
Affordability and Attainability	<ul> <li>Ensure job-housing match so that housing units produced in mixed-use compact areas are affordable to workers nearby.</li> <li>Integrate affordable housing in all neighborhoods, particularly complete, compact and opportunity-rich neighborhoods, allowing walking access to amenities, transit and services.</li> <li>Remove barriers or relax land-use regulations, such as maximum density, minimum lot size, parking requirements and cumbersome development standards, to encourage more production of affordable housing, including infill and accessory dwelling units.</li> <li>Establish "minimum density requirements" to ensure land is developed in accordance with the densities envisioned in the comprehensive plan.</li> <li>Relax or undo single family zoning to allow missing-middle housing, such as duplex, triplex, etc.</li> <li>Use form-based codes to encourage and regulate missing-middle housing.</li> <li>Provide a continuum of diverse housing choices, from rental to ownership and from tiny homes to single detached dwellings, so that people of diverse incomes, needs and life cycles can attain housing within their own means.</li> </ul>	<ul> <li>Improved distribution of affordable housing throughout the city.</li> <li>Increased range of densities, housing types and prices within communities.</li> <li>Reduced housing cost burden.</li> <li>Increased disposable income for nutritious food, health care and recreation.</li> <li>Reduced emotional stresses.</li> <li>Decreased homelessness.</li> <li>Increased aging-in-place opportunities by accommodating a broader range of household needs.</li> <li>Increased school attendance.</li> <li>Decreased mobility of students.</li> </ul>	<ul> <li>Improved emotional and mental health.</li> <li>Increased social connectedness.</li> <li>Increased academic achievement.</li> <li>Reduced health disparities.</li> <li>Increased social, financial and physical capitals.</li> <li>Increased community diversity and inclusiveness.</li> <li>Improved population health and quality of life.</li> <li>Improved neighborhood integration and sense of community and belonging.</li> </ul>

Input/Impact	Strategies/Policies	Intermediate Outcomes	Ultimate Outcomes
Area			
	<ul> <li>Expand options for affordable housing construction types, such as tiny homes, micro housing and manufactured housing.</li> <li>Utilize Inclusionary Zoning to require affordable housing in market-rate developments calibrated to market conditions.</li> <li>Avoid introducing Inclusionary Zoning in distressed communities.</li> <li>Change zoning to promote high-density housing in and near centers and corridors.</li> <li>Reduce unpredictable or streamline lengthy approval process to reduce costs of housing development.</li> <li>Create dedicated sources of funding to encourage affordable housing.</li> <li>Enhance incentives for affordable housing in market-rate development.</li> <li>Use public-owned land to provide affordable housing.</li> <li>Explore community land trusts and development corporations to develop and maintain affordable housing.</li> <li>Take steps to ensure existing affordable housing remains available, such as buying back subsidized properties, etc.</li> <li>Explore financing tools to support the supply and demand of affordable housing, such as tax increment financing, property tax</li> </ul>		

Input/Impact Area	Strategies/Policies	Intermediate Outcomes	Ultimate Outcomes
	abatement, investment tax credit, and revolving loan fund, etc.  • Encourage homeownership.		
Adequacy and Habitability	<ul> <li>Ensure affordable units have adequate space; physical accessibility; adequate security; security of tenure; structural stability and durability; adequate lighting, heating and ventilation; and adequate basic infrastructure.</li> <li>Apply National Healthy Housing Standardiv to building and other codes to prevent housing-related diseases and injuries through routine maintenance.</li> <li>Ensure that building standards and practices provide for safe and healthy homes for all.</li> <li>Encourage resource-efficient, carbon-neutral and high-performance housing by introducing green building standards, incentives and technical support.</li> <li>Maintain and preserve quality affordable dwellings, such as developing a rental housing safety program or adopt a rental inspection ordinancev.</li> <li>Work with the local health department to provide healthy home environment assessment to needed low-income residents.</li> <li>Offer housing rehabilitation loan and grant to help repair, improve, or modernize dwellings,</li> </ul>	<ul> <li>Improved housing conditions.</li> <li>Increased preservation of low-cost housing.</li> <li>Reduced exposure to allergens, neurotoxins and other hazards.</li> <li>Reduced health issues associated with poor quality housing, such as asthma or lead poisoning among children.</li> <li>Reduced levels of psychological distress and helplessness.</li> <li>Reduced high blood pressure.</li> </ul>	<ul> <li>Improved physical and mental health.</li> <li>Reduced health disparities.</li> <li>Increased neighborhood/community stability.</li> <li>Increased employment and education stability.</li> <li>Increased economic opportunity.</li> <li>Increased opportunity for civic engagement.</li> <li>Increase local construction and industrial jobs.</li> <li>Increased home market values.</li> <li>Increased social and physical capitals.</li> </ul>

Input/Impact Area	Strategies/Policies	Intermediate Outcomes	Ultimate Outcomes
	<ul> <li>and remove health or safety hazards from those dwellings.</li> <li>Work with the local health department to encourage smoke-free housing<sup>vi</sup>.</li> </ul>		
Stability	<ul> <li>Streamline processes for households to access rental assistance.</li> <li>Provide funding to stabilize rent.</li> <li>Provide funding to help low income households meet home energy needs.</li> <li>Assist households facing housing crises, such as debt advice for tenants with unpaid rents and legal support in eviction proceedings.</li> <li>Ensure residents have adequate notice for rent increases.</li> <li>Promote tenants' rights.</li> <li>Work with landlords to increase participation in rental assistance programs.</li> <li>Promote homeownership such as creating a home investment partnership program, etc.</li> <li>Create tax relief to stabilize homeowners.</li> </ul>	<ul> <li>Reduced lease terminations.</li> <li>Reduced involuntary displacements.</li> <li>Increased residential stability over time.</li> <li>Increased personal wealth through homeownership.</li> <li>Reduced poverty.</li> <li>Reduced homelessness.</li> </ul>	<ul> <li>Improved physical and mental health.</li> <li>Reduced health disparities.</li> <li>Increased education attainment.</li> <li>Improved sense of community and neighborhood/place.</li> <li>Decreased burden on state systems.</li> <li>Increased social and physical capitals.</li> </ul>
Equity	<ul> <li>Identify and assess patterns of inequitable access to housing, and consider changes to land use and housing growth strategies to correct them.</li> <li>Seek to understand and prevent increased risk of involuntary displacement when upzoning or subarea planning takes place.</li> </ul>	<ul> <li>Increased access to opportunities for the underserved populations.</li> <li>Reduced involuntary displacement of underserved populations and small local businesses.</li> <li>Reduced homelessness.</li> <li>Reduced poverty.</li> </ul>	<ul> <li>Improved social, economic and environmental root causes of health.</li> <li>Improved community diversity and inclusiveness.</li> <li>Improved health equity and reduced health disparities.</li> </ul>

Input/Impact Area	Strategies/Policies	Intermediate Outcomes	Ultimate Outcomes
	<ul> <li>Take community actions to prevent involuntary displacement of both the vulnerable populations and small local businesses.</li> <li>Develop a fair housing policyvii.</li> <li>Seek options to promote accessibility for people of diverse physical abilities.</li> <li>Consider Housing Firstviii policy to provide rapid access to permanent housing and support for chronically homeless individuals.</li> <li>Locate affordable housing in opportunity-rich neighborhoods.</li> </ul>		<ul> <li>Improved overall population health and well-being.</li> <li>Improved independence and quality of life.</li> </ul>

### Research Evidence

## Housing and Health in General

American Public Health Association. 2020. *Creating the Healthiest Nation: Health and Housing Equity.* Washington, D.C.: American Public Health Association. <a href="https://www.apha.org/-/media/files/pdf/topics/equity/health\_and\_housing\_equity.ashx?la=en&hash=feda5cd7041c72cba783ab614e5ec20caa040dca">https://www.apha.org/-/media/files/pdf/topics/equity/health\_and\_housing\_equity.ashx?la=en&hash=feda5cd7041c72cba783ab614e5ec20caa040dca</a>.

deVuono-powell, Saneta, Allison Allbee, and Juell Stewart. 2017. *Public Health for All: Rethinking the Legacy of Public Health & Housing.* Change Lab Solutions. Accessed April 7, 2020. https://medium.com/the-block-project/public-health-for-all-rethinking-the-legacy-of-public-health-housing-685842f1b5f0.

Dannenburg, Andrew L., Howard Frumkin, and Richard J. Jackson, ed. 2011. *Making Healthy Places: Designing and Building for Health, Well-Being, and Sustainability.* Washington, DC: Island Press.

https://www.researchgate.net/publication/261215792\_Making\_Healthy\_Places\_Designing\_and\_Building\_for\_Health\_Well-Being\_and\_Sustainability\_by\_Andrew\_L\_Dannenberg\_Howard\_Frumkin\_and\_Richard\_J\_Jackson.

Krieger, James, and Donna L. Higgins. 2002. "Housing and Health: Time Again for Public Health Action." *Journal of American Public Health* 92, No. 5: 758–768. <a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1447157/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1447157/</a>.

Norton, Ruth Ann, Brendan Wade Brown, Catherine Lee, Malomo-Paris, Kiki, and Jamal Lewis. *Achieving Health and Social Equity through Housing: Understanding the Impact of Non Energy Benefits in the United States*. Accessed August 12, 2020. <a href="https://www.greenandhealthyhomes.org/wp-content/uploads/AchievingHealthSocialEquity\_final-lo.pdf">https://www.greenandhealthyhomes.org/wp-content/uploads/AchievingHealthSocialEquity\_final-lo.pdf</a>.

Shaw, M. 2004. "Housing and Public Health." *Annual Review of Public Health* 25: 397-418. <a href="https://www.annualreviews.org/doi/full/10.1146/annurev.publhealth.25.101802.123036?url\_ver=Z39.88-2003&rfr">https://www.annualreviews.org/doi/full/10.1146/annurev.publhealth.25.101802.123036?url\_ver=Z39.88-2003&rfr</a> id=ori%3Arid%3Acrossref.org&rfr dat=cr pub%3Dpubmed.

Taylor, Lauren A. 2018. "Housing and Health: An Overview of The Literature." Health Affairs Health Policy Brief. https://doi.org/10.1377/hpb20180313.396577.

### **Accessibility and Location**

Christian, T.J. 2012. "Trade-offs Between Commuting Time and Health-related Activities." *Journal of Urban Health* 89, no. 5:746-57. <a href="https://www.ncbi.nlm.nih.gov/pubmed/22689293/">https://www.ncbi.nlm.nih.gov/pubmed/22689293/</a>.

Housing Wiki. "Jobs-Housing Balance". Accessed August 12, 2020. <a href="https://housing.wiki/wiki/Jobs-housing-Balance#Housing-affordability-and-adequate-employment-issues">https://housing.wiki/wiki/Jobs-housing-Balance#Housing-affordability-and-adequate-employment-issues</a>.

Pollack, Craig, Susan Egerter, Tabashir Sadegh-Nobari, Mercedes Dekker, and Paula Braveman. 2008. Where We Live Matters for Our Health: The Links Between Housing and Health. Housing and Health Issue Brief 2 of Robert Wood Johnson Foundation, Commission to Build a Healthier America. 12 pages. <a href="http://www.commissiononhealth.org/PDF/e6244e9e-f630-4285-9ad7-16016dd7e493/Issue%20Brief%202%20Sept%2008%20-%20Housing%20and%20Health.pdf">http://www.commissiononhealth.org/PDF/e6244e9e-f630-4285-9ad7-16016dd7e493/Issue%20Brief%202%20Sept%2008%20-%20Housing%20and%20Health.pdf</a>

## Affordability and Attainability

Claflin, Katie. 2016. Can Your Housing Situation Affect Your Mental Health? Studies Say Yes. Texas State Affordable Housing Corporation. Accessed April 7, 2020. https://www.tsahc.org/blog/post/can-your-housing-situation-affect-your-mental-health-studies-say-yes.

Enterprise Community Partners. 2014. *Impact of Affordable Housing on Families and Communities: A Review of The Evidence Base*. Columbia, MD: Enterprise Community Partners, Inc. <a href="https://homeforallsmc.org/wp-content/uploads/2017/05/Impact-of-Affordable-Housing-on-Families-and-Communities.pdf">https://homeforallsmc.org/wp-content/uploads/2017/05/Impact-of-Affordable-Housing-on-Families-and-Communities.pdf</a>.

Kottke Thomas, Adrianna Abariotes, and Joel B. Spoonheim. 2017. "Access to Affordable Housing Promotes Health and Well-Being and Reduces Hospital Visits.". *The Permanente Journal* 22, No.17-079. https://doi.org/10.7812/tpp/17-079.

Lubell, Jeffery, Rosalyn Crain, and Rebecca Cohen. 2007. Framing the Issues—The Positive Impacts of Affordable Housing on Health. Washington, D.C.: Center for Housing Policy and Enterprise Community Partners. <a href="https://pdfs.semanticscholar.org/0dbf/ed563545d8b93877db82ee0634e68796ede7.pdf">https://pdfs.semanticscholar.org/0dbf/ed563545d8b93877db82ee0634e68796ede7.pdf</a>.

Maqbool, Nabihah, Janet Viveiros, and Mindy Ault. 2015. "The Impacts of Affordable Housing on Health: A Research Summary." Center for Housing Policy. https://www.rupco.org/wp-content/uploads/pdfs/The-Impacts-of-Affordable-Housing-on-Health-CenterforHousingPolicy-Magbool.etal.pdf.

National Low Income Housing Coalition. 2019. "Severely Housing Cost-Burdened Households Experience Greater Food Insecurity, More Child Poverty, and Worse Health Outcomes." Accessed April 7, 2020. <a href="https://nlihc.org/resource/study-finds-severely-housing-cost-burdened-households-experience-greater-food-insecurity.">https://nlihc.org/resource/study-finds-severely-housing-cost-burdened-households-experience-greater-food-insecurity.</a>

## **Adequacy and Habitability**

Healthy People 2020. "Quality of Housing." Office of Disease Prevention and Health Promotion. Accessed April 7, 2020. <a href="https://www.healthypeople.gov/2020/topics-objectives/topic/social-determinants-health/interventions-resources/quality-of-housing.">https://www.healthypeople.gov/2020/topics-objectives/topic/social-determinants-health/interventions-resources/quality-of-housing.</a>

Jacobs, David E., et. al. 2015. "Moving into Green Healthy Housing." *Journal of Public Health Management and Practice* 21, no. 4: 345-54. <a href="https://www.who.int/publications/ii/item/who-housing-and-health-guidelines">https://www.who.int/publications/ii/item/who-housing-and-health-guidelines</a>.

Jacobs, David E., Matthew Tobin, Loreen Targos, Dale Clarkson, Sherry L Dixon, Jill Breysse, Preethi Pratap, and Salvatore Cali. 2016. "Replacing Windows Reduces Childhood Lead Exposure: Results from a State-Funded Program." *Journal of Public Health Management and Practice* 22, no. 5: 482-91. https://doi.org/10.1097/phh.0000000000000389.

National Center for Healthy Housing. "A Cost-Benefit Analysis of a State-Funded Healthy Homes Program for Residents with Asthma: Findings from the New York State Healthy Neighborhoods Program." Accessed August 12, 2020. <a href="https://nchh.org/research/nys-hnp-a-cost-benefit-analysis-of-a-state-funded-healthy-homes-program-for-residents-with-asthma/">https://nchh.org/research/nys-hnp-a-cost-benefit-analysis-of-a-state-funded-healthy-homes-program-for-residents-with-asthma/</a>.

Office of Policy Development and Research. "Housing's and Neighborhoods' Role in Shaping Children's Future." Accessed August 12, 2020. https://www.huduser.gov/portal/periodicals/em/fall14/highlight1.html#title.

Pevalin, David J., Aaron Reeves, Emma Baker, and Rebecca Bentley. 2017. "The Impact of Persistent Poor Housing Conditions on Mental Health: A Longitudinal Population-based Study." *Preventive Medicine* 105: 304-310. https://doi.org/10.1016/j.ypmed.2017.09.020.

Szanton, Sarah L., Jill Roth, Manka Nkimbeng, Jessica Savage, and Rachel Klimmek. 2014. "Improving Unsafe Environments to Support Aging Independence with Limited Resources." *Nursing Clinics of North America* 49, no. 2: 133-145. http://doi.org/10.1016/j.cnur.2014.02.002.

Tohn Environmental Strategies, The National Center for Healthy Housing and Three<sup>3</sup>. 2016. *Occupant Health Benefits of Residential Energy Efficiency*. Framingham, MA: E4The Future, Inc. <a href="https://e4thefuture.org/wp-content/uploads/2016/11/Occupant-Health-Benefits-Residential-EE.pdf">https://e4thefuture.org/wp-content/uploads/2016/11/Occupant-Health-Benefits-Residential-EE.pdf</a>.

Urban Land Institute. 2014. *Housing in America: Integrating Housing, Health, and Resilience in a Changing Environment*. Washington, DC: Urban Land Institute. https://uli.org/wp-content/uploads/ULI-Documents/Housing-in-America-2014.pdf.

Vandivere, Sharon, Elizabeth C. Hair, Christina Theokas, et al. 2006. *How Housing Affects Child Well-Being*. Coral Gables, FL: Funders' Network for Smart Growth and Livable Communities. <a href="https://www.researchgate.net/profile/Elizabeth\_Hair/publication/254013610\_How\_Housing\_Affects\_Child\_Well-Being/links/0f31753aad4e3f23b7000000.pdf">https://www.researchgate.net/profile/Elizabeth\_Hair/publication/254013610\_How\_Housing\_Affects\_Child\_Well-Being/links/0f31753aad4e3f23b7000000.pdf</a>.

Wilkinson, Paul (2009), revised by Helen Crabbe and Rebecca Close. 2016. *Public Health Textbook, Section 2F: Environment in Health Knowledge*. Buckinghamshire UK: Department of Health Public Health Action Support Team. <a href="https://www.healthknowledge.org.uk/public-health-textbook/disease-causation-diagnostic/2f-environment/health-problems-poor-housing">https://www.healthknowledge.org.uk/public-health-textbook/disease-causation-diagnostic/2f-environment/health-problems-poor-housing</a>.

Wilson, Jonathan, David Jacobs, Amanda Reddy, Ellen Tohn, Jonathan Cohen, and Ely Jacobsohn. 2016. *Home Rx: The Benefits of Home Performance. A Review of Current Evidence*. Columbia, Maryland: National Center for Healthy Housing.

https://betterbuildingssolutioncenter.energy.gov/sites/default/files/attachments/Home%20Rx%20The%20Health%20Benefits%20of%20Home%20Performance%20-%20A%20Review%20of%20the%20Current%20Evidence.pdf.

World Health Organization. 2005. *Report on the WHO Technical Meeting on Quantifying Disease from Inadequate Housing*. Bonn, Germany. <a href="http://www.euro.who.int/">http://www.euro.who.int/</a> \_\_data/assets/pdf\_file/0007/98674/EBD\_Bonn\_Report.pdf.

World Health Organization. 2006. Report on the WHO Second Technical Meeting on Quantifying Disease from Inadequate Housing. Bonn, Germany. <a href="http://www.euro.who.int/">http://www.euro.who.int/</a> data/assets/pdf file/0006/98673/EBD report.pdf?ua=1.

## **Stability**

The Bay Area Regional Health Inequities Initiative. *Housing Stability and Family Health: An Issue Brief.* Accessed August 12, 2020. <a href="https://static1.squarespace.com/static/5c8ae9be9d41493d3ac82554/t/5c9132220d929776f5dd8734/1553019427929/BARHII+report\_Housing\_Stability\_and\_Family\_Health.pdf">https://static1.squarespace.com/static/5c8ae9be9d41493d3ac82554/t/5c9132220d929776f5dd8734/1553019427929/BARHII+report\_Housing\_Stability\_and\_Family\_Health.pdf</a>.

Gill, Francis. 2018. "The Severe Health Consequences of Housing Instability." Accessed August 12, 2020. <a href="https://www.peoplespolicyproject.org/2018/07/09/the-severe-health-consequences-of-housing-instability/">https://www.peoplespolicyproject.org/2018/07/09/the-severe-health-consequences-of-housing-instability/</a>.

National Poverty Center. 2012. "Housing Instability and Health: Findings from the Michigan Recession and Recovery Study." *Policy Brief* 29. <a href="http://www.npc.umich.edu/publications/policy">http://www.npc.umich.edu/publications/policy</a> briefs/brief29/NPC%20Policy%20Brief%20-%2029.pdf.

Office of Disease Prevention and Health Promotion. "Healthy People 2020: Housing Instability". Accessed August 12, 2020. https://www.healthypeople.gov/2020/topics-objectives/topic/social-determinants-health/interventions-resources/housing-instability.

Pollack, Craig, Shanu K. Kurd, Alice Livshits, Mark Weiner, and Julia Lynch Pollack. 2011. "A Case—Control Study of Home Foreclosure, Health Conditions, and Health Care Utilization." *Journal of Urban Health* 88, no. 3: 469–478. https://doi: 10.1007/s11524-011-9564-7.

Rollins, Chiquita, et. al. 2012. "Housing Instability Is as Strong a Predictor of Poor Health Outcomes as Level of Danger in an Abusive Relationship: Findings from the SHARE Study." *Journal of Interpersonal Violence* 27 no. 4: 623-43. https://doi.org/10.1177/0886260511423241.

#### Equity

Brummet, Quentin and Davin Reed. 2019. *The Effects of Gentrification on the Well-Being and Opportunity of Original Resident Adults and Children*. Federal Reserve Bank of Philadelphia. Philadelphia, PA. <a href="https://www.philadelphiafed.org/-/media/community-development/publications/discussion-papers/discussion-pa

CSH The Source for Housing Solution. 2014. *Housing is the Best Medicine*. Accessed August 12, 2020. <a href="http://www.csh.org/wp-content/uploads/2014/07/SocialDeterminantsofHealth\_2014.pdf">http://www.csh.org/wp-content/uploads/2014/07/SocialDeterminantsofHealth\_2014.pdf</a>.

Dragan, Kacie L., Ingrid Gould Ellen, and Sherry A. Glied. 2019. "Gentrification and The Health of Low-Income Children In New York City." *Health Affairs* 38, no.9. https://doi.org/10.1377/hlthaff.2018.05422...

Florida, Richard. 2017. "Race, Gentrification, and Health in Philadelphia: A Study Finds That Black Residents in Gentrifying Neighborhoods Are More Likely to Report Poorer Health." Bloomberg City Lab. Accessed August 12, 2020. <a href="https://www.bloomberg.com/news/articles/2017-02-21/gentrification-makes-health-and-race-more-correlated">https://www.bloomberg.com/news/articles/2017-02-21/gentrification-makes-health-and-race-more-correlated</a>.

Garrett, Helen, Mike Roys, Selina Burris, and Simon Nicol. *The Cost-benefit to the NHS Arising from Preventative Housing Interventions*. Watford, UK: BRE Trust. <a href="https://www.viva-access.com/wp-content/uploads/2016/05/bre-summary-report.pdf">https://www.viva-access.com/wp-content/uploads/2016/05/bre-summary-report.pdf</a>.

Hood, Ernie. 2005. "Dwelling Disparities: How Poor Housing Leads to Poor Health." *Environmental Health Perspectives* 113, no. 5: A310–A317. https://doi: 10.1289/ehp.113-a310.

Izenberg, Jacob M., Mahasin S. Mujahid, and Irene H. Yen. 2018. "Health in Changing Neighborhoods: A Study of The Relationship Between Gentrification and Self-Rated Health in the State of California." *Health Place* 52: 188–195. <a href="https://doi.org/10.1016/j.healthplace.2018.06.002">https://doi.org/10.1016/j.healthplace.2018.06.002</a>.

Levitt, Zoë. "Gentrification is Making Us Sick: Envisioning Healthy Development without Displacement." Accessed August 12, 2020. https://www.reimaginerpe.org/20-1/levitt.

Rose, Kalima and Teddy Kỳ-Nam. 2016. *Healthy Communities of Opportunity: An Equity Blueprint to Address America's Housing Challenges*. Oakland. CA: Policy Link. https://www.policylink.org/sites/default/files/HCO Web Only.pdf.

Swope, Carolyn B. and Diana Hernández. 2019. "Housing as a Determinant of Health Equity: A Conceptual Model." *Social Science & Medicine* 243. https://doi.org/10.1016/j.socscimed.2019.112571.

The Foundation for a Healthy St. Petersburg, and Collaborative Solutions, Inc. 2018. *Home: A Pathway to Health Equity Through Housing*. Accessed August 12, 2020. <a href="https://healthystpete.foundation/wp-content/uploads/2018/09/FHSP-pathway-to-health-equity-through-housing-pinellas-county.pdf">https://healthystpete.foundation/wp-content/uploads/2018/09/FHSP-pathway-to-health-equity-through-housing-pinellas-county.pdf</a>.

The Health Impact Project. 2016. *Health Impact Assessment and Housing*. Accessed August 12, 2020. <a href="https://www.pewtrusts.org/~/media/assets/2016/03/opportunities">https://www.pewtrusts.org/~/media/assets/2016/03/opportunities</a> for the housing sector.pdf.

US Centers for Disease Control and Prevention. "Health Effects of Gentrification." Accessed on August 12, 2020. https://www.cdc.gov/healthyplaces/healthtopics/gentrification.htm.

White, Kellee, and George Lipsitz. 2016. "Using Fair Housing to Achieve Health Equity." *Stanford Social Innovation Review*. Accessed August 12, 2020. https://ssir.org/articles/entry/using fair housing to achieve health equity.

#### **ENDNOTES**

UN Human Rights Office of the High Commissioner. "The Right to Adequate Housing Toolkit." Accessed April 9, 2020. https://www.ohchr.org/en/issues/housing/toolkit/pages/righttoadequatehousingtoolkit.aspx.

<sup>&</sup>lt;sup>II</sup> Healthy housing is dry, clean, pest-free, well-ventilated, safe, contaminant-free, and thermally controlled.

- World Health Organization. 2018. "WHO Housing and Health Guidelines." Accessed August 12, 2020. <a href="https://www.who.int/publications/i/item/who-housing-and-health-guidelines">https://www.who.int/publications/i/item/who-housing-and-health-guidelines</a>.
- National Center for Healthy Housing. 2018. National Healthy Housing Standard. Accessed August 12, 2020. <a href="https://nchh.org/tools-and-data/housing-code-tools/national-healthy-housing-standard/">https://nchh.org/tools-and-data/housing-code-tools/national-healthy-housing-standard/</a>.
- <sup>v</sup> ChangeLab Solutions. 2014. *Model Proactive Rental Inspection Ordinance*. Oakland, CA: ChangeLab Solutions. <a href="http://www.changelabsolutions.org/sites/default/files/Model-Proactive-Rental-Inspection-Ord\_20140716.pdf">http://www.changelabsolutions.org/sites/default/files/Model-Proactive-Rental-Inspection-Ord\_20140716.pdf</a>.
- vi Tacoma-Pierce County Health Department. "Access to Smoke-free Housing Protects Your Health." Accessed April 27, 2020. <a href="https://www.tpchd.org/healthy-homes/smoke-free-housing">https://www.tpchd.org/healthy-homes/smoke-free-housing</a>
- vii Lael Robertson and Tim Thompson. 2018. Fair Housing Policy Guide: Best Practices to Help Government Further the Commitment to Equitable, Dignified Homes for All. Minnesota: Housing Justice Center. 46-49. https://metrocouncil.org/Handbook/Files/Resources/Best-Practices/Fair-Housing-Policy-Guide.aspx.
- National Alliance to End Homelessness. 2016. "Housing First." Accessed August 28, 2020. https://endhomelessness.org/resource/housing-first/.