Environmental Racism and the Health of BIPOC Communities
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Water Pollution
- Sources include chemical leaks, pesticides, leaking fuel from machinery, improperly treated sewage, household drainage (FN & MF, 2017)
- Can cause cholera, dysentery, Hepatitis (Denchak, 2019)
- Associated with cancer, respiratory diseases, cardiovascular diseases (Ong, 2020)

Air Pollution
- Sources include transportation, power generating facilities, trash disposal (Turrentine & Mackenzie, 2021)
- Can increase severity of allergies, asthma, bronchitis (Maantay, 2017)
- Linked to immune, nervous, circulatory, and endocrine system damage; can impact fetal development, IQ, and learning (Turrentine & Mackenzie, 2021)

Biological Pollution
- Sources include mold, mildew, pollen, animal droppings, bacteria, viruses, body parts from insects (United States Environmental Protection Agency, 2018)
- Can release toxins harmful to the body’s organs and tissues (EPA, 2018)
- May cause allergic reactions (coughing, congestion, skin rashes), and severe, life-threatening asthma attacks (EPA, 2018)

Noise Pollution
- Sources include heavy machinery, construction, manufacturing processes (Abbaspour et al., 2015)
- Leading source in urban areas is transportation (Israel, 2017)
- Linked to hypertension, sleep problems, hearing loss, developmental delays, psychiatric disorders, and loss of memory (Casey et al., 2017)

Analysis
- "...the disproportionate impact of environmental hazards on people of color” (Energy Justice Network, n.d.)
- History of toxic waste sites, highways, etc. being placed in or near BIPOC communities because they do not have the resources or power to fight them
- 1942, New Mexico: U.S. government tested first nuclear weapon without regard for severe negative health effects on nearby Mexican-Americans (Peña-Parr, 2020)
- 1955, NYC: Cross-Bronx Expwy designed, would later expose BIPOC communities to higher levels of pollution (Ndoro, 2021)
- Communities primarily made up of BIPOC people are more likely to be affected by exposure to unsafe levels of pollution, which can have adverse effects on physical, mental, and developmental health.
  - A 2017 study found that communities with 75% black residents had noise levels that were higher than communities with 0% black residents (Casey, et. al., 2017)
  - In 1986 researchers found that 3:5 Black and Hispanic, ⅔ of all Asian/Pacific Islanders, and ⅔ of all Native Americans live in communities with uncontrolled hazardous waste sites (UCC Commission For Racial Justice, 1987)
- Environmental pollution contributes to health inequities experienced by BIPOC communities
  - A 2006 study found that in racially segregated urban areas cancer risk caused by air pollution increased as the level of segregation grew (Morello-Frosch & Jesdale, 2006)
  - Risk of death associated with exposure to fine particle air pollution was found to be three times higher for Black persons than for the general population (Di et. al., 2017)
  - Significantly higher COVID-19 death rates within BIPOC communities, which has been linked to exposure to higher levels of air pollution (Friedman & Schlanger, 2020)

Fieldwork
- Environmental justice occurs when all people equally experience high levels of environmental protection and no group or community...is affected by a disproportionate impact from environmental hazards.” (Committee on Social Work Education, 2015)
- Social workers recognize the fundamental need of all people to live in an environment that supports their health and well-being
- Social workers have a duty to ensure the fundamental human rights of all persons to safety and an adequate standard of living. (National Association of Social Workers, 2021)
- Social workers must collaborate with affected BIPOC individuals, families, and communities to work for policy change on local, state, and national levels

References

Call To Action

Findings

Policy Change

Research Methods

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