A growing body of science is consistently linking violence (the experience with and/or fear of) with risk for and incidence of a range of serious physical health problems. The effects of violence on health are a consequence of the physical, biological, environmental, social, behavioral, and emotional changes that violence imposes on all of us. While it has been long understood that violence has implications for emotional and physical injury, it is only relatively recently that we are beginning to recognize the longer-term effects that reap an extensive toll on the broader health status of individuals, families and communities. These health consequences include asthma, significant alteration of healthy eating and activity, heart disease and hypertension, ulcers and gastrointestinal disorders, diabetes, neurological and musculoskeletal diseases, and lung disease.

**Asthma**

- Adults with asthma who had witnessed violence in their neighborhoods were twice as likely to visit the hospital for asthma than those without exposure to violence (1)
- Children of mothers experiencing intimate partner violence have a 2-fold increased risk of developing asthma than those not exposed (2)
- In a study of 7 cities across the U.S., increased exposure to violence predicted higher number of days with significant symptoms related to asthma; the greater the exposure, the greater the number of symptomatic days (3)
- Chicago children from neighborhoods with moderate to serious problems with violence were about 60 percent more likely to develop asthma than children from less violent neighborhoods (4)

Exposure and/or fear of violence is associated with both increased prevalence of and severity of asthma, particularly among children (1–6). This appears to be the case across cultural and geographic boundaries (7). Risk factors from violence that relate to asthma include:

- Enhancement of the effects of other asthma risk factors, e.g. air pollution (exposure to violence appears synergistic with exposure to air pollution in increasing the risk for developing asthma) (7)
- Increased stress and anxiety, which are known to trigger and exacerbate asthma (8,9)
- Parental stress/anxiety affecting compliance and medical follow up (4)
- Reduced physical activity affecting overall health and lung function (10)
- Physically deteriorated community environments enhancing exposure to allergens (4)
Other Chronic Illnesses

- Adults reporting exposure to violence as children had increased likelihood of a number of chronic health conditions compared to those without such exposures, especially if their experience involved multiple forms of violence exposures (ischemic heart disease 2.2x, cancer 1.9x, stroke 2.4x, chronic obstructive lung disease 3.9x, diabetes 1.6x, hepatitis 2.4x) (11,12)

- Both men and women who experienced Intimate Partner Violence had an increased risk of developing a chronic disease than those not exposed (13,14)

- There is a significantly higher likelihood of engaging in behaviors known to contribute to chronic illness behaviors (smoking, eating disorders, substance abuse, decreased physical activity) for those who have been exposed to one or more of the range of types of interpersonal violence (e.g. child abuse, sexual assault, family violence, community violence) (11,14-18)

- Mothers with high exposure to community violence were twice as likely to report poorer health, smoking, and poor sleep habits (19)

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“We know in Newark and in cities all across America that there are families that don't let their children play because there's no safe places to play, no green spaces to play. They want to keep their kids in the house for the basic human need of security.”

— Mayor Cory Booker, press conference, Office of the First Lady, April 1, 2010

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Research, as well as clinical experience, has identified a broad range of chronic illnesses that are either brought on by exposure to violence or are in some way exacerbated as a consequence of violence (11, 20-28). Most of these studies have looked at multiple health consequences of exposure to violence rather than focusing on a single disease.

A brief list of disorders associated with experiencing violence (child abuse, family violence, community violence are all implicated) includes:

- Heart disease and hypertension
- Ulcers and other gastrointestinal disturbances
- Diabetes
- Neurological and musculoskeletal diseases
- Lung disease including asthma and chronic obstructive pulmonary disease (COPD)
Implications for Healthy Eating and Activity

- Children of women who report chronic intimate partner violence are 1.8 times more likely to be obese than other children; the effect is magnified for families living in unsafe neighborhoods (28)
- Researchers have found that women who perceive their neighborhoods to be unsafe are 25 percent more likely to be obese (29)
- Children of parents who perceived their neighborhood as unsafe were 4 times more likely to be overweight than those of parents who perceived their neighborhood as safe (30)
- Mothers with high exposure to neighborhood violence were twice as likely to report never exercising (31)
- Persons who described their neighborhood as not at all safe were nearly three times more likely to be physically inactive than those describing their neighborhood as extremely safe (32)

Exposure to and fear of violence of all types (domestic, interpersonal, community) creates barriers to healthy eating and behavior. This relationship appears to be the consequence of multiple effects of violence on communities, individuals, and populations.

Effects on communities

- Reduced investment in community resources including parks and recreation facilities, and other activities that promote healthy activity (33)
- Reluctance for food related resources such as supermarkets to enter the community reducing access to healthy foods (34,35)
- Interference with the growth of social capital and infrastructure that promotes healthy living (32,36-39)

Effects on individuals and populations

- Reduced physical activity / Increased sedentary time (40-46)
- Increased use of processed and unhealthy food due to decreased access to food choices (36,37)
- Reduce optimism, increased anxiety and other emotional consequences affecting motivation for healthy living and activity (29,47-50)
- Parental restriction of activity of children, especially related to the outdoors (44,51)

“Community safety is our number one concern. If our employees feel unsafe coming to work, or our patrons are scared to shop in the area, we won’t open a store there.”

— Head of security for a major retail corporation
So what does this all mean?

We must recognize and understand that all forms of violence in the family and the community take a serious toll on the general health and well-being of all community members. Every system in the body—from our hearts to our lungs to our intestines to our nervous systems—can be affected in harmful ways. And many of the behaviors that contribute to poor health can be exacerbated, further affecting how we feel and function. When we consider the rapidly growing costs of health care and the general decline in health status among Americans over the past generation, preventing violence before it occurs needs to be included in the larger plan to improve health. In addition to ensuring that violence is addressed through health and prevention planning, there is also an emerging set of strategies to simultaneously address the intersection of violence and chronic disease. For example, key opportunities to integrate efforts to prevent violence into healthy eating and active living strategies include creating safe spaces, promoting community development and employment, and fostering social cohesion.

TO LEARN MORE

- Visit the UNITY homepage.  www.preventioninstitute.org/unity.html
- Review Addressing the Intersection—Preventing Violence and Promoting Healthy Eating and Active Living. This paper describes how violence exacerbates chronic diseases and perpetuates health disparities, and why preventing violence is crucial for health.  www.preventioninstitute.org/component/jlibrary/article/id-267/127.html
- Read the UNITY Policy Platform. Developed partnership with UNITY cities, the UNITY Policy Platform describes the kinds of strategies that need to be in place to prevent violence.  www.preventioninstitute.org/component/jlibrary/article/id-290/127.html

UNITY builds support for effective, sustainable efforts to prevent violence before it occurs so that urban youth can thrive in safe environments with supportive relationships and opportunities for success.

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