Health disparities in the United States related to socioeconomic status are persistent and pervasive. This review highlights how social disadvantage, particularly low socioeconomic status and the health burden it brings, is passed from 1 generation to the next. First, we review current frameworks for understanding the intergenerational transmission of health disparities and provide 4 illustrative examples relevant to child health, development, and well-being. Second, the leading strategy to break the cycle of poverty in young families in the United States, the 2-generation approach, is reviewed. Finally, we propose a new 3-generation approach that must combine with the 2-generation approach to interrupt the intergenerational cycle of disadvantage and eliminate health disparities.

This review highlights how social disadvantage, particularly low SES and the health burden it brings, is passed across generations and provides evidence to justify a forward-looking paradigm shift. First, we review current frameworks for understanding the intergenerational transmission of health disparities. Next, to link research to programs and policy we highlight the current leading strategy to address child poverty: the 2-generation approach.13, 14 We then provide 4 illustrative examples of relevant health risks and related 2-generation interventions. Finally, we suggest that 2-generation approaches, although extremely important, are alone insufficient and propose a 3-generation approach. Acknowledging growing research on biological, behavioral, social, and environmental influences across generations, the 3-generation approach appreciates the importance of life course trajectories and extends the programmatic and policy focus beyond early childhood through

POVERTY AND HEALTH DISPARITIES

Breaking the Intergenerational Cycle of Disadvantage: The Three Generation Approach

Tina L. Cheng, MD, MPH, a,b Sara B. Johnson, PhD, MPH, a,b Elizabeth Goodman, MD c, d

abstract

Eliminating health disparities is a national priority codified in both Healthy People 20201 and in calls for action from multiple scientific and public health organizations.2, 3 Today American children are more likely than adults to be living in poverty.4 A vast literature has documented the existence of social inequalities in health and the persistent effects of childhood social adversities throughout the life course.5–11 Furthermore, social disadvantage clusters in families across multiple generations.12 Children in poverty are more likely to become lower socioeconomic status (SES) adults who accumulate less wealth to pass on to future generations.5 To break the intergenerational cycle of disadvantage, the frameworks that inform clinical care, policy, and research must expand beyond parent–child dyadic family health to include an intentional and proactive focus on improving the health, well-being, and social circumstances of future generations.

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adolescence and young adulthood, when individuals may become parents. This approach looks forward in time toward health promotion of both current and future generations. The frameworks and approaches are summarized in Table 1.

THEORETICAL FRAMEWORKS FOR THE INTERGENERATIONAL TRANSMISSION OF HEALTH DISPARITIES

In the latter half of the 20th century, nature versus nurture was the dominant paradigm for understanding intergenerational transmission of health risks. Intergenerational mechanisms were conceptualized as a function of genetic inheritance (nature) or a bad socioemotional environment (nurture). Recognizing the key role environments play in modulating gene expression, today the transmission of health and well-being across generations is understood as a function of gene–environment interactions that occur in a specific shared context.21

Although it is understood that the environments of families who experience multigenerational disadvantage are often characterized by high levels of psychosocial and physical stressors and lack of buffering resources, how these environments get under the skin to create health disparities remains puzzling. Over the past 2 decades, multiple frameworks have been used to understand these mechanisms. Seminal work comes from both social epidemiology and neuroscience. In relation to child health and well-being, the developmental origins of adult disease (DoHAD) framework and the field of fetal programming,22 now called biological “conditioning,”11,23 are perhaps the best known. DoHAD is closely linked with the work of Barker and colleagues, who noted that children who were in utero during the World War II Dutch Winter Famine, when starvation was widespread and profound, were small for gestational age (SGA) and that adults who had been SGA infants were at higher risk for type 2 diabetes and metabolic syndrome, diseases associated with large for gestational age infants and increased adiposity and that the hypothalamic pituitary adrenal axis was the mechanistic link.24–27 The Barker Hypothesis suggests that these individuals were programmed in utero to hold on to nutrients, an adaptive step if the environment is nutrient-poor, as it was during the famine, creating a “thrifty phenotype” that increased risk for disease as associated with increased adiposity, even after adjustment for adult body size.15,26,28–30 A Helsinki birth cohort also demonstrated the association between fetal growth retardation and increased risk for obesity, type 2 diabetes, and heart disease in adults.31–33 Despite challenges to its validity,34 a wealth of studies, including epigenetic studies, have supported the DoHAD framework which focuses on fetal and intrauterine exposures.25

In parallel to these studies, intergenerational transmission of biological traits through social

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<th>TABLE 1 Theoretical Frameworks and Intervention Approaches to Address the Intergenerational Cycle of Disadvantage</th>
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<td><strong>Theoretical Framework</strong></td>
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<td>Developmental Origins of Adult Disease (DoHAD)</td>
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The frameworks and approaches are summarized in Table 1.
factors was also being investigated. In elegant work with rats, Meaney and colleagues showed epigenetic changes in offspring due to variations in maternal care.\textsuperscript{35,36} Dams with high licking and grooming behaviors produced well-adjusted pups across generations, whereas low licking and grooming dams produced skittish rats. Pups from low licking and grooming dams cross-fostered with high licking and grooming dams were also well-adjusted. In adulthood, these cross-fostered pups produced offspring similar to the cross-fostered, rather than their birth phenotype. These behavioral changes were related to epigenetically induced changes, including glucocorticoid receptor expression in the hippocampus and neurotransmitter receptor expression in the amygdala.\textsuperscript{36,37} These epigenetic studies provide excellent examples of the evolving nature of the DOHaD framework beyond epidemiology to a diversity of scientific fields.

The DoHaD framework focuses primarily on the role of exposures from conception to infancy. Although these are critical developmental periods, growth and plasticity occur throughout the life course. The Life Course Health Development (LCHD) framework, widely disseminated particularly in relation to health policy, acknowledges the continued plasticity of individuals across the life course, characterizing health and well-being as an emergent property of individuals, shaped by their interactions with their environment over time.\textsuperscript{16,38} Popularization of the LCHD framework reflects the broader evolution of theories of biological development beyond the dichotomy between nature and nurture to the dynamic interplay between nature and nurture in determining individuals’ life course trajectories.\textsuperscript{39} LCHD is a powerful, forward-focused theoretical framework. Although person-context interactions over time are at its core, the LCHD framework does not propose mechanisms to understand how such interactions create health disparities. McEwen’s allostatic load theory fills this gap.\textsuperscript{19} Allostasis\textsuperscript{18} describes the process through which an organism adapts to an environmental stressor. Adaptation, which involves neuroendocrine and autonomic nervous system responses, occurs at each instance a stressor is encountered. Over time, repeated cycles of allostasis lead to cumulative wear and tear on these regulatory systems: high allostatic load causing dysregulation and ultimately disease. Low SES can lead to increased allostatic load and, over time, health disparities.\textsuperscript{20} Recent studies support links between poverty and changes in the biological mediators of allostasis.\textsuperscript{40–42}

**BREAKING THE CYCLE OF DISADVANTAGE: THE 2-GENERATION APPROACH**

The 2-generation approach is today’s leading strategy to break the cycle of poverty in young families.\textsuperscript{13,14,43} This whole-family approach acknowledges the primacy of the family in shaping health and developmental outcomes for children.\textsuperscript{13,43} The 2-generation approach (Fig 1\textsuperscript{43,44}) aims to improve families’ circumstances by supporting parents in their roles as parents and as workers, thereby helping both generations to escape poverty. Fewer programs have explicitly focused on parents’ health to improve child health and well-being outside of programs for pregnant women.\textsuperscript{45} High-risk families are the target for many 2-generation programs that attempt to ameliorate the effects of poverty on health and well-being.

**ILLUSTRATIVE EXAMPLES**

We describe 4 examples that illustrate the complex mechanisms underlying how social disadvantage not only creates health risk, but also persists across generations. These include a sociostructural factor (child poverty), a biological contextual factor (low birth weight; LBW), a social contextual factor (parenting), and a health-related factor (mental health). Each example contains Generation 1 (G1), Generation 2 (G2), and Generation 3 (G3) pathways, highlighting the reciprocal and dynamic nature of the relationship between SES and health in the context of intergenerational family well-being (Fig 2).\textsuperscript{46} Because this review is child-centric, we refer to a child’s generation as G2, his or her parents as G1, and his or her potential offspring as G3.

**Child Poverty**

Children are the most likely sector of the US population to live in poverty.\textsuperscript{4} Poverty in early childhood is directly related to a child’s adult earnings, occupational productivity, use of public benefits, and risk of health conditions, such as cardio-metabolic disease and arthritis, which limit adult work.\textsuperscript{5,47} Multigenerational legacies of racism, segregation, and systematic economic disenfranchisement particularly disadvantage poor families of color and limit economic mobility and opportunity.\textsuperscript{48} Children raised in poverty often fail to accumulate the “health capital” that facilitates...
later educational attainment, peer relationships, and ability to parent, all of which contribute substantially to LCHD and transmission of health risk across generations.21, 49, 50 Today’s widening education gap suggests that the contribution of adolescent capacities (or lack thereof) to population-level patterns of generational disadvantage is arguably greater now than in the past.49 Thus, a child (G2) born to poor parents (G1) is likely to remain poor as an adult (G2) and, if he or she becomes a parent, to raise poor children (G3). Head Start, which began in 1965 as part of the War on Poverty, is one of the best known examples of a 2-generation approach. Head Start now provides year-round, full-day services for a million preschool-aged children and their families across the United States.51

LBW

Racial and SES disparities in LBW are a major public health problem.50,52 SGA infants like those studied by Barker are 1 class of LBW infants. SES affects factors such as prenatal nutrition,53 and maternal (G1) health behaviors such that infants born to disadvantaged mothers are at increased health risk for LBW.12,54 LBW infants (G2) face poorer health and well-being across their life spans; they are at higher risk of adult cardiometabolic disease, emotional and behavioral problems, and cognitive problems.55 Mechanisms underlying these disparities include shared genetics and epigenetic changes, as well as continuity in social conditions across generations.50,56,57 For example, mothers (G1) who were born LBW are ∼50% more likely to give birth to LBW infants (G2), compared with mothers born heavier, even among sisters.50 Being born LBW (G2) is related to lower educational attainment and poorer adult health, both of which affect parenting.50,55 Thus, disadvantage leads to health and behavioral risks across a woman’s lifetime (G1) which increases her risk of having a LBW infant (G2); if that infant is a girl, the child is at increased risk of having an LBW infant (G3). Historically, 2-generation approaches to addressing LBW have centered around efforts to expand access to and utilization of prenatal and intrapartum care, particularly for low-income and minority women.

Parenting

Parenting is a key conduit through which disadvantage and poor health are passed across generations.58–62 Positive parenting (ie, warm and supportive parent–child relationships) is more likely to facilitate the transmission of higher SES through greater educational attainment, better adjustment, and fewer antisocial behaviors, whereas negative parenting is more likely to have the opposite effects.61,63–65 Parenting behaviors are transmitted across generations through a variety of mechanisms, such as attachment58–61 and epigenetic regulation of the genome.62 In turn, children’s (G2) social competence and personality predict parental (G1) investments, family stress, and, ultimately, their own (G2) SES as adults.63,66 Individuals exposed to harsh discipline, aggressive parenting, and poor supervision during childhood and adolescence (G2) display similar parenting behaviors when they become parents, reinforcing the relationships among parenting, social competence, and achievement across generations (G3).61,65 Finally, a number of intergenerational studies provide compelling evidence of continuity in parenting behaviors and health risk.65–74 In a 12-year family study, grandparents’ poverty during adolescence predicted earlier childbearing and more harshness in parents and more behavioral problems in their 2- to 3-year-old children.66 These behavior problems, in turn, elicited more harshness from their parents at 3 to 4 years of age. These findings support others suggesting that children’s social competence and personality predict parental investments, family stress, and, ultimately, their adult SES.63,66 Among the most widely implemented 2-generation approaches for
improving parenting in at-risk families is the Federal Home Visiting Program, which provided more than 1.4 million home visits between 2012 and early 2015. Home visiting is designed to promote maternal and child health and safety, increase parenting knowledge and responsiveness, and promote the parent–child bond.

**Mental Health**

There is mounting evidence that poor mental health is a key mechanism in the intergenerational transmission of disadvantage. As a group, individuals who suffer from mental illness have lower SES than those who do not. Both social selection (ie, those who have mental illness are more likely to be poor because of downward mobility) and social causation (ie, the stress of being poor increases the risk of mental illness) likely play a role, although the weight of the evidence suggests social causation has greater impact. A 3-generation retrospective study found that the likelihood a parent with major depression would have a child with a psychiatric disorder (principally anxiety disorder) varied by grandparents' major depression status. Both genetic and environmental factors likely account for these relationships. Similarly, recent research supports the role of exposure to family violence in the intergenerational transmission of antisocial behavior, including some mental disorders (ie, posttraumatic stress disorder and alcoholism) and emotional impulsivity and aggression.

A 2-generation approach to addressing mental health as a source of disadvantage includes identifying both parent and child mental health problems in pediatric primary care and referrals to appropriate services.

**Summary**

Two-generation approaches with high-risk families are critical. However, although necessary, they are not sufficient to interrupt cycles of intergenerational disadvantage. Evidence suggests that social disadvantage decreases children's ability to gain the cognitive, emotional, and behavioral capacities needed for optimal academic and social achievement in adolescence and to become gainfully employed, engaged citizens, and caring partners and friends when they transition to adulthood. This disadvantage extends throughout an individual's lifetime, within families, and across generations. Consequently, we argue that, alongside the 2-generation approach, a new, forward thinking 3-generation approach rooted in primary prevention is also needed.

**The 3-Generation Approach**

Current approaches acknowledge the role of disadvantage in shaping health and well-being, not just in families, but across generations. To interrupt cycles of poorer health and disadvantage, the implications of an individual's interaction with his or her environment over the life course must be paired with an understanding of the implications for his or her family and for subsequent generations. Specifically, our approaches must be proactive in anticipating and ameliorating the impact of family circumstances, experiences, and behaviors on the health, well-being, and capacities of future generations.

Building on previous frameworks, the 3-generation approach recognizes the intergenerational transmission of health, well-being, wealth, and social status. It emphasizes the need to universally support children's development, health, and functioning to facilitate both a productive adulthood and their potential to parent the next generation. There is ample scientific evidence supporting the formative role of early childhood. Investing in human capital, specifically parents, is critical to protecting children's potential at the population level. However, opportunities to optimize parenting capacities begin long before individuals have made choices about family formation. Thus, a longer-term investment is needed not just for high-risk families (2-generation approach) but for all children, adolescents, and families (3-generation approach).

The 3-generation approach (Fig 3) focuses on the following: (1) helping parents (G1) as workers and as parents as in the 2-generation approach; (2) improving child and adolescent (G2) health and well-being, development, education, and social circumstances for successful and productive adulthood; and (3) optimizing adolescents' and young adults’ capacity for planning and parenting future offspring (G3). Figure 4 expands on Ascend: the Aspen Institute's depiction of the 2-generation model, shifting the focus from the child–parent family unit to include potential future generations.

Whereas the life course approach has been criticized for minimizing the impact of events and interventions that occur beyond early life, the 3-generation approach highlights the importance of both early childhood and adolescence/early adulthood and the interactions among generations. Patterns of behavior established in adolescence persist into adulthood, and many of the capacities that facilitate a healthy transition to adulthood (emotional and cognitive regulation, persistence, positive peer–partner relationships) also support the ability to parent the next generation. The current care
delivery system is oriented toward preventing and managing adolescent risk behaviors. The 3-generation approach emphasizes risk reduction but highlights the need for policies supporting future planning, including the preconception health and education of young women and men, reproductive life planning, and socioemotional skills development.

**IMPLICATIONS OF A 3-GENERATION APPROACH**

The 3-generation approach has implications for clinical care, policy, and research. In the clinical realm, it emphasizes childhood, adolescence, and young adulthood as critical periods during which the health care system and social programs must play a larger role in optimizing (1) youth’s capacities for educational attainment, transition to work, and adult productivity; (2) preconception health; (3) reproductive life planning; and (4) parenting skills and capacities.

**Building Youth’s Capacities**

Health and educational outcomes interact to drive health and educational disparities (Fig 2). Poor physical and mental health in childhood and adolescence negatively affect attention, learning, persistence, and school engagement, as well as future educational achievement and attainment. Promoting a healthy foundation for all children is key to closing the achievement gap and reducing health disparities. To date, however, health and educational interventions have been implemented separately, limiting their overall impact in both sectors. Making children’s health and educational progress a shared responsibility of primary care and our educational system, as well as implementing new models to integrate health and education sectors will help both today’s and future children escape poverty. The 3-generation approach argues for

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**FIGURE 3**

**FIGURE 4**
investment in the education, health, and availability of employment opportunities for all children to meet their full potential and contribute to society.

Preconception Health

The 3-generation approach emphasizes the importance of investments during adolescence and early adulthood when choices about family formation are made. There has been increased interest in the preconception health of both women and men to reduce infant mortality and promote child health. Poor women are more likely to face barriers to care and are less likely to have well-woman health visits. Ensuring that all adolescents and adults of childbearing age have access to quality care and are in optimal health is crucial for a healthy next generation. Pediatric clinicians are important providers of such care. They see preconceptual adolescents and mothers when they bring their children in for care who may be interconceptional for their next child. Thus, pediatric clinicians have an important role in optimizing women’s health and the health of the next generation. For low-income women in particular, pediatric clinicians may be the primary source of contact with the health system. Preconception health care should address genetic family history, medical and psychosocial conditions, medications, substance use, toxins, nutrition, and folate intake regardless of whether planning pregnancy. Payment for this type of health care delivery innovation, as well as policies that support access to care and health promotion for adolescents and young adults, are essential to preconception health.

Reproductive Life Planning

Reproductive life planning purposefully addresses family planning and preconception health and is an essential component of the 3-generation approach. Half of pregnancies in the United States are unwanted or mistimed. The degree to which a pregnancy is wanted is associated with indicators of child well-being and child socioemotional development. Thus, discussions in primary or other care visits regarding future pregnancies and contraceptive needs can help ensure the well-being of future generations. For clinicians who care for adolescents and parents of childbearing age, these discussions include desire for current and future pregnancy, impact of a potential pregnancy on social and economic circumstances, planning for future pregnancy, contraception counseling, vitamins with folate for all women of childbearing age, and counseling on healthy behaviors for potential future pregnancies. Again, this is a shift in paradigm from a primarily risk assessment/risk reduction approach to one that proactively plans for the future.

Parenting Skills and Capacities

The 3-generation approach prioritizes building the capacity for responsive parenting through skills development long before reproductive maturity and decisions about family formation are made. The socioemotional skills and capacities that are important for educational engagement and attainment, as well as occupational productivity, are also important for positive social and romantic relationships and responsive parenting. Thus, programs that aim to universally optimize socioemotional skills are an important component of a 3-generation approach. Furthermore, before the choice to be a parent has been made, universal education should be provided on child development, parenting skills, and impact on social and economic circumstances. Such teaching may aid in decision-making regarding timing of parenthood and may prepare young people for effective parenting. Enhanced teaching of parenting skills in primary care can improve parenting practices and reduce child disruptive behaviors. Other countries have created multiagency, integrated systems of prenatal, parent, and child care supports that may be instructive models. Ultimately, multiple sectors, including health care, education, social services, and community organizations, must take responsibility for ensuring that young people have the skills they need to be responsive, nurturing parents when and if they choose to be.

Implications for Health Care Delivery

The 3-generation approach necessitates greater longitudinal integration of services across the age spectrum (eg, obstetrics, internal medicine, geriatrics), as well as greater intergenerational integration of services (eg, obstetrics, family medicine) than our current health care delivery system achieves. Our age-based delivery system creates structural barriers that limit 2- and 3-generation programs. All specialties can provide family-focused care, thereby contributing to intergenerational health. Integrated health care delivery innovations (eg, pediatric clinicians providing preconception health counseling, parenting education, adolescent transition programs) require study and new payment models. Although electronic medical records have revolutionized the ability to track individuals and populations across the life course, most systems still lack the ability to link and track family members. This would enable more complete family, genetic, and social histories across generations. Finally, in addition to vertical integration of health services across the life course, horizontal integration (merging health services with other service sectors such as child care, schools, and social services) is...
needed to optimize child health and well-being.\textsuperscript{45,101} Again, multisector involvement and collaboration are essential. Technology (longitudinal and family-linked electronic records, enhanced communication mechanisms) could assist in breaking down existing information silos.

**Implications for Research**

Electronic medical records offer great opportunity to study health and well-being across the life course and across generations. Linking families electronically is essential. Further study is needed on mechanisms of the life course and intergenerational transmission of SES and health and cross-generational family influences on SES and health. This must include studies on transmission of parenting competencies and effectiveness of interventions to improve parenting skills. Finally, research innovations in program development and implementation and dissemination of 2- and 3-generation approaches are needed documenting effectiveness and cost-effectiveness. This should involve primary care, the health care delivery system, and integration with other sectors such as education, social services, and employment.

**Implications for Policy**

Three-generation approaches require investment with an eye toward future generations. Although environmental or health impact assessments consider every policy’s impact in those arenas, policies must also be evaluated not on the legacy but the contribution the policy has for the future well-being and health of the next generation. Policies must promote integration of sectors that support children, adolescents, and families, removing silos and recognizing the need for long-term return on investment across sectors. Strategic investment at critical periods (not only critical periods in development, but also at critical inflection points in the transmission of poor health and disadvantage across generations such as pregnancy or prepregnancy) are needed. Concretely, this includes increased commitment to and investment in multigeneration strategies such as universal family planning and parenting education, efforts to improve the quality and safety of schools and child care, as well as policies that support families such as parental leave, child tax credits, minimum wage laws, employment opportunities, and antipoverty initiatives. Although not the focus of this article, it is clear that economic and governmental policies are a critical part of solutions to eliminate intergenerational poverty and health disparities.

**CONCLUSIONS**

Maximizing a child’s health, well-being, and development optimizes potential for that child to become a productive adult. Such investment in future generations is also an investment in society at large and a way to reduce intergenerational health disparities. Child health professionals can help optimize children’s and adolescents’ biological, behavioral, and psychosocial capacities and resources both to maximize that individual’s own health and social circumstances as well as to support those of the next generation. This means supporting not only 2-generation strategies involving children and parents but also purposeful 3-generation strategies that bolster children’s capacity to become healthy, engaged, happy, and successful citizens and nurturing, capable future parents.

**ABBREVIATIONS**

DoHAD: developmental origins of adult disease  
LBW: low birth weight  
LCHD: Life Course Health Development  
SES: socioeconomic status  
SGA: small for gestational age

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