Global Prevalence of Past-year Violence Against Children: A Systematic Review and Minimum Estimates

Susan Hillis, PhD, MSN, a James Mercy, PhD, b Adaugo Amobi, MD, MPH, c Howard Kress, PhD b

abstract

CONTEXT: Evidence confirms associations between childhood violence and major causes of mortality in adulthood. A synthesis of data on past-year prevalence of violence against children will help advance the United Nations’ call to end all violence against children.

OBJECTIVES: Investigators systematically reviewed population-based surveys on the prevalence of past-year violence against children and synthesized the best available evidence to generate minimum regional and global estimates.


STUDY SELECTION: Two investigators independently assessed surveys against inclusion criteria and rated those included on indicators of quality.

DATA EXTRACTION: Investigators extracted data on past-year prevalences of violent victimization by country, age group, and type (physical, sexual, emotional, or multiple types). We used a triangulation approach which synthesized data to generate minimum regional prevalences, derived from population-weighted averages of the country-specific prevalences.

RESULTS: Thirty-eight reports provided quality data for 96 countries on past-year prevalences of violence against children. Base case estimates showed a minimum of 50% or more of children in Asia, Africa, and Northern America experienced past-year violence, and that globally over half of all children—one billion children, ages 2–17 years—experienced such violence.

LIMITATIONS: Due to variations in timing and types of violence reported, triangulation could only be used to generate minimum prevalence estimates.

CONCLUSIONS: Expanded population-based surveillance of violence against children is essential to target prevention and drive the urgent investment in action endorsed in the United Nations 2030 Sustainable Development Agenda.


1Division of Violence Prevention; 2National Center for Injury Prevention and Control, Centers for Disease Control and Prevention, Atlanta, Georgia; and 3Department of Medicine, Massachusetts General Hospital, Harvard Medical School, Boston, Massachusetts

Drs Hillis and Mercy conceptualized and designed the study, drafted the initial manuscript, approved the final manuscript as submitted, and are accountable for representing all aspects of the work; Drs Hillis and Kress conducted the systematic review, abstracted relevant data, analyzed and/or interpreted the synthesized data, revised and approved the final manuscript, and are accountable for representing all aspects of the work; and Dr Amobi contributed to acquiring, synthesizing, and interpreting the data, drafting, reviewing, and revising the manuscript, approved the final manuscript as submitted, and is accountable for representing all aspects of the work.

Violence against children is a public health, human rights, and social problem, with potentially devastating and costly consequences. Its destructive effects harm children in every country, impacting families, communities, and nations, and reaching across generations. Recognizing its pervasive and unjust nature, almost all nations (196) ratified the 1989 United Nations (UN) Convention on the Rights of the Child, which recognizes freedom from violence as a fundamental human right of children. Now, over 25 years later, the UN has launched a new Agenda for Sustainable Development to end all forms of violence against children. Documenting the magnitude of violence against children by synthesizing the best available evidence will be essential for informing policy, driving action, and monitoring progress for this bold agenda.

Data from surveys on violence against children in different countries typically measure prevalences of individual types of violence, such as physical, sexual, or emotional violence. Alternatively, estimates may focus on 1 location or class of perpetrator; examples include bullying victimization, which is often only measured when it occurs on school grounds, or child maltreatment, which is limited to that perpetrated by parents or caregivers. Rarely do prevalence studies measure ranges of types, locations, and perpetrators.

Although few studies assess experiences of childhood violence across types, many reports suggest differing types share similar consequences. Such consequences are additive, increasing with increases in types and severity of violence experience. These harmful sequelae span major causes of death in adulthood, including noncommunicable diseases, injury, HIV, mental health problems, suicide, and reproductive health problems.

Empirical associations between early exposure to violence and major causes of mortality in adulthood were recognized years ago, before elucidation of their shared biological underpinnings. Recent evidence documents the biology of violence, demonstrating that traumatic stress experienced in response to violence may impair brain architecture, immune status, metabolic systems, and inflammatory responses. Early experiences of violence may confer lasting damage at the basic levels of nervous, endocrine, and immune systems, and can even influence genetic alteration of DNA.

In response to increasing recognition of the magnitude, consequences, biology, and costs of violence against children, there are growing commitments by UN agencies, the World Health Organization, the Centers for Disease Control and Prevention, USAID, PEPFAR, World Bank, Together for Girls, governments, academic centers, and civil society organizations, to its prevention. The converging prioritization of protecting children from violence has culminated in the prioritization of protecting children from violence has culminated in the inclusion of not just 1, but 2 zero-based targets—outcomes that every country should seek to eliminate, rather than merely reduce—in the sustainable development goals (SDGs): to “end abuse, exploitation, trafficking, and all forms of violence against children,” and to “eliminate all forms of violence against women and girls.” Many countries lack the data that will be needed to evaluate progress from 2016 to 2030 toward these targets.

After years of research addressing magnitude, risk factors, and consequences of violence against children, a consensus is emerging on how to reliably measure its prevalence. Because violence against children does not typically come to the attention of official agencies, global evidence reveals that the self-reported prevalence of child sexual abuse victimization is >30 times higher than official reports; and self-reported physical abuse victimization is >75 times higher. Thus, self-reports are now considered an essential measurement tool and will be foundational for informing new investment opportunities associated with the SDG aims to end violence against children. These self-reports should be ascertained after informed assent/consent is given and in private, where children and/or caretakers can provide direct information about exposures to violent behaviors across types, locations, and perpetrators.

In recent years, the number of representative surveys addressing prevalences of recent experiences of violence against children has increased. Two of these, the National Survey of Children’s Exposure to Violence (NatSCEV) and Violence Against Children Surveys (VACS), measure the full range of types, locations, and perpetrators; and several others, such as Multiple Indicator Surveys (MICS), WorldSafe, Health Behavior in School-Aged Children Surveys (HBSC), and Global School Health Surveys (GSYS), provide estimates of exposures to several types of violence, though these estimates are restricted to 1 class of perpetrator or location.

Given the new global prioritization of the prevention of violence against children, it is important to use the best available evidence to assess the extent to which children in various regions of the world are exposed to it. Our aims are to systematically review the quality of population-based evidence on prevalence of violence against children during the past year, and then to use a triangulation approach that synthesizes data from high quality surveys to estimate global minimum prevalences and numbers of children exposed to violence during the past year. We conclude by describing the urgent need to implement effective,
multisector programs and policies to prevent violence against children.

METHODS

Systematic Review: Approach, Characteristics, Quality, and Data Abstraction

We used the PRISMA statement to guide our systematic review.16 Our database search, conducted in January 2014 by using Medline, PubMed, Global Health, NBASE, and CINAHL, identified 907 unduplicated peer-reviewed reports published after the year 2000, by using these search terms: [(low-income countries or middle-income countries or high-income countries or developing countries or developed countries) and (ages 1 to 18 years or children or adolescents or infants or preschool child or school child) and (national surveys or population surveillance or health survey or surveys or disease surveys or epidemiologic surveys or surveillance), and (child maltreatment or physical violence or sexual violence or emotional violence or maltreatment or neglect or bully or bullying or bullies or bullied)] (see Supplemental Material). We extended our search from January 2014 to August 2015 (see Supplemental Material) and identified an additional 22 published reports (Supplemental Material), including both peer-reviewed papers and reports from the UNICEF MICS (reports from 33 countries), VACS (reports for 8 countries), and HBSC (reports for 37 countries). After screening a total of 929 unduplicated reports for descriptions of population-based measures of any type of past-year violence against children in the 0 to 17 year age range, we conducted a full review on 54 reports. Of these, 16 reports were excluded due to: no report of past-year prevalence,6 report of perpetration only,1 subjective definition of exposure,2 nonprobabilistic sampling,3 and provision of only qualitative data2 (Fig 1). The final 38 reports provided quantitative estimates of prevalence of 1 or more types of violence against children occurring during the previous year.1710–15,18–48

These 38 references met the following criteria for inclusion: (1) population-based survey data, probabilistically drawn, using national or subnational samples; (2) use of standard measures of violence that assess behaviors (Supplemental Table 6, Supplemental Material); (3) data collected by interviewer-administered household survey, school survey, or random digit dialed telephone survey using self-report (by child and/or caregiver); (4) age of target population (2–17 years); (5) specification of country-specific or area-specific estimates; and (6) violence reported during 1 to 12 months before implementation of the survey. To conduct the systematic review, 2 investigators (S.H. and H.K.) independently assessed studies against inclusion criteria and independently rated their quality for key indicators, including clear description of population-based sampling, use of standard definitions of violent behaviors, preimplementation training of interviewers/questionnaire administrators, presentation of weighted analyses, description of whether survey was national or subnational, and participation rates (Table 1). Finally, the investigators (S.H. and H.K.) performed duplicate extraction of past-year prevalence data by age,2–16,18 country, and type of violent victimization as defined by varying investigators, including physical violence, moderate physical violence, severe physical violence, emotional violence, severe psychological (emotional) violence, sexual violence, or psychological violence, and emotional abuse.
Synthesizing Estimates of Minimum Exposure to Past-year Violence

The final review included data from 112 studies in 96 countries. We used a triangulation approach, which included a critical synthesis of data to develop minimum estimates by using population-weighted averages of regional exposures to past-year violence.49-51 Triangulation is appropriate for comparing, contrasting, and synthesizing research characterized by varying methodologies and diverse limitation when the primary purpose is not to elucidate etiology, but rather to catalyze public health action.49 Although previous reports have pooled data on a specific type of violence from a standardized survey (eg, GSHS), our interest in generating estimates of past-year experience of any type of violence across surveys made triangulation more suitable, due to variations in methods, definitions, populations, and timing of data collection.15,49,52 Using types of violence measured in various surveys, such as NatSCEV, MICS, WorldSafe, VACS, GSHS, and HBSC (Table 1), we abstracted past-year
prevalences of physical violence, severe physical violence, sexual violence, emotional violence, severe psychological (emotional) violence, bullying victimization, fighting, and when reported, exposure to “any violence.” Forty-three countries reported exposure to “any violence” in the past year. MICS studies33 and the Canada Conflict Tactics Scale (CTS) adaptation1 report moderate physical and/or harsh physical and/or emotional by 1 type of perpetrator in 1 type of location; VACS studies8 report physical, emotional, and/or sexual by multiple perpetrators and locations; NatSCEV1 reports physical and/or emotional, and/or sexual and/or bullying and/or direct crime against the child, and/or witnessing violence by multiple perpetrators and locations.10-12,19,25-30,38,40,41,44,47
Though NatSCEV includes both victimization and witnessing violence, we include only direct victimization data. In instances where the same survey had been implemented periodically (eg, NatSCEV, HBSC), we used the most recently published.14,47 Definitions vary on the measurement of exposure to any given type of violent victimization. Definitions vary particularly in whether they include hitting with bare hands, or spanking, as a form of violence. For example, in the WorldSafe, MICS, and survey adaptations using CTS, “moderate physical violence” includes “slapping, hitting with bare hands, hitting with an object, shaking, or spanking”13,25,29,35,61; in contrast, the NatSCEV and VACS exclude spanking from their measures.10,47 In light of these variations, we performed our base case analysis by using the conservative definition for physical violence which excluded spanking, although in so doing we also excluded other dimensions in the moderate category for violent discipline, such as slapping and shaking. Thus, for survey measures based on the experiences of violence in the home (MICS, WorldSafe, and survey adaptations of CTS), we used prevalences for severe violence (such as kicked, choked, smothered, burned, branded, beat repeatedly, or hit with an object) in the base case analyses to avoid inclusion of spanking13,25,35,39,43 (Supplemental Table 6, Supplemental Material). For the sensitivity analysis, we expanded the classification of exposures to include prevalences of moderate physical violence or any violence, both of which had spanking as a defining indicator (Supplemental Material).13,25 As expected, country-specific prevalences of violence against children in the base case were lower than those in the sensitivity analysis.

Country-specific Estimates of Violence Against Children

We used published prevalence data to generate country-specific estimates for 2 age groups (2–14 and 15–17 years) of minimum prevalences of violence in the previous 12 months. Age ranges and types of violence reported varied across surveys, with most reporting only 1 or 2 types; additionally, many surveys only measured past-month exposure. Therefore, due to limitations in types and timing, we can only characterize prevalence of past-year violence in terms of minimum exposure for children living in 1 of the countries with published data. We also excluded children aged 0–1 years, since few reports include this group.

To estimate the minimum number of children aged 2 to 17 years exposed to violence in each country, we used 2014 US Census Bureau international population data to create 2 population-at-risk age groups: 2 to 14 and 15 to 17 years53 (Supplemental Material). Then, for both base case and sensitivity analyses, to estimate numbers of children in a given country known to be exposed, we applied the highest published age group–specific prevalence of violence (often only 1 type for the base case)
### TABLE 1  Population-Based Surveys Measuring Past-Year Violence Against Children: Characteristics and Survey Quality Indicators

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Quality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age Group for Review, Y</td>
<td>Survey Type (Ref. No.)</td>
</tr>
<tr>
<td>2–14</td>
<td>MICS (12, 24, 45)</td>
</tr>
<tr>
<td>15–17</td>
<td>WorldSafe (13)</td>
</tr>
<tr>
<td></td>
<td>NatSCEV (11, 38, 40, 41, 47)</td>
</tr>
<tr>
<td></td>
<td>CTS (35, 37, 43)</td>
</tr>
<tr>
<td></td>
<td>VACS (10, 18, 25–30, 31, 44)</td>
</tr>
<tr>
<td></td>
<td>GSHS (15, 17, 19, 20, 22, 23)</td>
</tr>
<tr>
<td></td>
<td>HBSC (14, 21, 32, 42)</td>
</tr>
<tr>
<td></td>
<td>National Survey of School Health (PeNSE) (48)</td>
</tr>
<tr>
<td></td>
<td>YRBS, Physical dating violence (36, 46)</td>
</tr>
<tr>
<td></td>
<td>Bullying (17, 33, 34)</td>
</tr>
</tbody>
</table>

MUN, municipal; NAT, national; REG, regional.
to the corresponding 2014 reference population age group for that country: either the 2- to 14-year-old or the 15- to 17-year-old population. Disaggregated age data were available for 110 of 112 abstracted prevalence estimates, either through age-related eligibility criteria for a given survey or through age-stratified data for surveys including ages 0 to 17 years (see Supplemental Material for details). While reports measuring violent discipline (eg, MICS) provided most country-specific estimates for ages 2 to 14 years, those surveys focusing on adolescents, such as VACS, GSHS, and HBSC provided most data for the 15- to 17-year-old population.\textsuperscript{10,14,15,25} For a given country, prevalence estimates may have included only 2- to 14-year-olds, only 15- to 17-year-olds, or both (Supplemental Table 7, Supplemental Material).

Regional Estimates of Minimum Prevalences and Projected Numbers of Children Exposed to Past-year Violence

For each region, we derived estimates of the minimum prevalence of children exposed to past-year violence from the population-weighted average of the country-specific prevalences, and then applied the known prevalences to the entire region. The 96 countries with population-based data included 24 in Africa, 20 in Asia, 9 in Latin/South America, 3 in Northern America, 38 in Europe, and 2 in Oceania. We computed estimates separately for 2- to 14-year-old and 15- to 17-year-old populations, by using 2014 Census data\textsuperscript{53} to provide minimum prevalences of childhood violence by age (Table 2 and Supplemental Material). Next, we used the estimates of regional prevalences from abstracted data to develop projected total minimum numbers of children exposed to violence in the corresponding region by age group. We then used the sum of the minimum regional numbers of children ages 2 to 14 years and 15 to 17 years experiencing violence and the sum of corresponding regional 2014 populations to estimate regional and global minimum prevalences and numbers of children ages 2 to 17 years experiencing past-year violence. Finally, we used a similar population-weighted approach to estimate minimum prevalences of past-year violence against children based on the UN classification of developed and developing nations. The use of triangulation to critically synthesize data on past-year violent victimization across surveys allowed us to combine data for children living in nearly half the countries in the world; ~42% of the world’s children reside in these countries.

RESULTS

Quality of Surveys

The majority of surveys in our review were high quality (Table 1). We confirmed 100% (112/112) of reports used probabilistic sampling, and 100% used standard definitions of exposures to violent behaviors. In addition, 96% (108/112) described training of interviewers/questionnaire administrators, 93% (104/112) reported weighting findings, 100% reported whether their surveys were national (102) or subnational (10), and 70% (78/112) reported participation rates (39%–99% range). Although nearly half of the countries in the world have published population-based data on at least 1 type of violence, this also means that half of the countries in the world do not have such data.

Synthesized Estimates

For the base case analysis of minimum prevalences of past-year violence among 2- to 14-year olds and 15- to 17-year-olds, we found that synthesized estimates for both age groups approached or exceeded 50% for Africa, Asia, and Northern America, and exceeded 30% for Latin America (Table 2). For Europe, prevalences of the more severe types of violence included in the base case scenario tended to be lower than for other regions. We largely computed these base case minimum estimates for 2- to 14-year-olds by using country-specific highest reported prevalence for 1 type of violence (eg, severe physical violence by caregivers for most countries), because most surveys reporting exposures to any violence for this age included spanking in their definitions. In contrast, the sensitivity analyses did include prevalence measures of any violence; synthesis of results for 2- to 14-year-olds showed minimum prevalences of past-year violence exceeded 60% in Northern America, 60% in Latin America, 70% in Europe, 80% in Asia, and 80% in Africa (Table 3).

For the base case, our estimates for the entire group of 2- to 17-year-olds indicated that a minimum of 64% of these children in Asia, 56% in Northern America, 50% in Africa, 34% in Latin America, and 12% in Europe experienced past-year violence (Table 4). The low estimate for Oceania is linked to the fact that representative surveys measuring prevalences of violence were only available for ages 15 to 17 years and thus, we assumed none of the 2- to 14-year-olds experienced violence. An estimation of the total minimum numbers of children exposed, which is a function of both prevalence and size of the population-at-risk in 2014, shows Asia has the highest number, with over 700 million children exposed; Africa follows with over 200 million children; then Latin America, Northern America, and Europe combined show over 100 million children exposed. The synthesized findings for the base case scenario indicate that, globally, a minimum of over 1 billion children were exposed to violence during 2014 (Table 4). For the sensitivity analysis, we found that a minimum of over 1.4 billion
of the nearly 2 billion children aged 2 to 17 years experienced physical, emotional, and/or sexual violence in the previous year (Table 4). Though prevalences of violence were high in both the developing and developed world, the minimum number estimated as suffering victimization in the developing world in 2014 exceeded 1 billion children (Table 5).

**DISCUSSION**

Our systematic review of studies used to derive minimum estimates of past-year violence against children showed these population-based surveys were high quality. Most surveys had the following characteristics: probabilistic sampling, standard definitions, training of interviewers/questionnaire administrators, weighting of estimates for complex designs, and national scope. If we assume our base-case scenario combining prevalences across approximately half of the countries is representative of overall minimum prevalence estimates for all countries, and thus can be projected to the entire population, then the number of children exposed to violence in the past year exceeds 1 billion, or half the children in the world. Region-specific estimates for children aged 2 to 17 years indicate that the Asian, African, and Northern American regions had the highest minimum prevalences, which included moderate physical violence and showed three-fourths of the world's children experienced violence in the previous year. Whether from the base case or from sensitivity analyses, our findings compel urgent action.
### TABLE 3 Sensitivity Analysis Estimates of Past-year Violence Against Children by Age Group and Region

<table>
<thead>
<tr>
<th>Region</th>
<th>Ages 2–14 y</th>
<th>Ages 15–17 y</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pooled From Published Reports</td>
<td>Total Population at Risk</td>
</tr>
<tr>
<td></td>
<td>Total N From Census Data</td>
<td>Pooled n Affected by VAC From Reports</td>
</tr>
<tr>
<td>Africa</td>
<td>71 878 435</td>
<td>62 759 153</td>
</tr>
<tr>
<td>Asia</td>
<td>393 844 643</td>
<td>340 857 383</td>
</tr>
<tr>
<td>Latin America</td>
<td>53 739 988</td>
<td>34 340 020</td>
</tr>
<tr>
<td>Europe</td>
<td>16 686 939</td>
<td>12 184 304</td>
</tr>
<tr>
<td>Northern America</td>
<td>57 837 970</td>
<td>35 685 684</td>
</tr>
<tr>
<td>Oceania</td>
<td>Not available</td>
<td>Not available</td>
</tr>
</tbody>
</table>

Minimum prevalences and minimum estimates of total numbers of children affected. Includes children exposed to moderate physical violence, defined as spanked, slapped in the face, hit, or shook.

### TABLE 4 Regional and Global Projections of Minimum Prevalences of Past-year Violence, and Minimum Numbers of Children Exposed to Past-year Violence

<table>
<thead>
<tr>
<th>Region</th>
<th>Base Case</th>
<th>Sensitivity Analysis</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Children-at-Risk: Census Population Ages 2–17 y</td>
<td>Past-year Estimate of Any Violence or Severe Violence, %</td>
</tr>
<tr>
<td>Africa</td>
<td>457 910 818</td>
<td>50</td>
</tr>
<tr>
<td>Asia</td>
<td>1 116 627 158</td>
<td>64</td>
</tr>
<tr>
<td>Latin America</td>
<td>171 374 655</td>
<td>34</td>
</tr>
<tr>
<td>Europe</td>
<td>123 739 478</td>
<td>12</td>
</tr>
<tr>
<td>Northern America</td>
<td>71 559 422</td>
<td>56</td>
</tr>
<tr>
<td>Oceania</td>
<td>8 708 044</td>
<td>7</td>
</tr>
<tr>
<td>World</td>
<td>1 949 919 575</td>
<td>54</td>
</tr>
</tbody>
</table>

*a Any violence includes, depending on survey type, exposure to 1 or more of the following: physical violence, emotional violence, sexual violence, bullying, or witnessing violence.

### TABLE 5 Global Projections of Minimum Prevalences of Past-year Violence and Minimum Numbers of Children Exposed to Past-year Violence by UN Economic Groupings

<table>
<thead>
<tr>
<th>Region</th>
<th>Base Case</th>
<th>Sensitivity Analysis</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Children-at-Risk: Census Population Ages 2–17 y</td>
<td>Past-year Estimate of Any Violence or Severe Violence, %</td>
</tr>
<tr>
<td>Developing Countries</td>
<td>1 730 914 508</td>
<td>59</td>
</tr>
<tr>
<td>Developed Countries</td>
<td>219 005 067</td>
<td>44</td>
</tr>
</tbody>
</table>

*a Any violence includes, depending on the survey type, exposure to 1 or more of the following: physical violence, emotional violence, sexual violence, bullying, or witnessing violence. Based on UN developing countries, including least developed countries in: Africa, Asia excluding Japan, the Caribbean, Central America, South America, and Oceania excluding Australia and New Zealand; and developed countries in: Northern America, Europe, Japan, Australia, New Zealand.

*a Includes children exposed to moderate physical violence, which is defined as spanked, slapped in the face, hit, or shook.
that described in UNICEF’s *Hidden in Plain Sight*, also demonstrate an urgent need to escalate global commitments to protecting children.45 In our report, we critically synthesized population-based measures of violence against children aged 2 to 17 years that are recent (past-year) and more serious to provide minimum regional and global estimates of the public health burden of violence against children. Our interest for the base scenario in more serious types of violence is linked to their potential to influence a range of public health consequences and to be associated with the kind of toxic stress that damages brain architecture in children.3,4,5,4 Thus, given our findings, we estimate that violence may threaten the optimum development of over a billion brains in children, every year. Though we excluded moderate forms of violence, such as hitting a child on the buttocks or extremities in the base analysis, we included these forms in the sensitivity analysis, as evidence suggests spanking is considered a form of violence, violates rights to protection, can be harmful to development, and is linked with externalizing and internalizing behavior problems.55–63 Given that the new SDG agenda proposes ending all forms of violence against children, our synthesized estimates help convey the scale of this urgent global problem.

The overarching purpose of population-based surveys on violence against children is to drive national action plans that catalyze change.1 Several surveys, including HBSC and NatSCEV, have been implemented repeatedly to monitor trends. An evaluation of trends in bullying from 2002–2010 by using HBSC, for example, shows no change in most of the 33 countries, although reductions were observed in one-third of countries.14 Similarly, over 3 waves of NatSCEV in the United States, from 2008–2014, there was no overall reduction in past-year violent victimization of children.47 We considered limitations that may have biased our estimates of past-year violence against children. The strongest limitation is that our estimates underreport prevalences for several reasons. First, since few surveys include the range of types, perpetrators, and locations of violence, base-case estimates were often computed on only 1 type of violence; for example, violent discipline in the home was the predominant type reported for 2- to 14-year-olds, and either bullying, fighting, or multiple exposures (from VACS) for 15- to 17-year-olds. However, for the sensitivity analyses, nearly half (n = 43) of the countries had data on exposure to multiple types of violence. We further underestimated prevalences by assuming none of the children ages 2 to 14 years in Oceania were exposed, because no data were available for this age group. We also assumed, due to lack of data, that no children under 2 years were exposed. It is also possible that selection bias may have influenced our imputed regional estimates, if minimum prevalences of violence differ between those countries with and those without published estimates, or if in the several cases with only subnational estimates, those differ from national ones. There may also be differential bias between regions given variations in age distributions, types of violence reported, and proportion of the populations living in countries without estimates. Finally, we believe it is unlikely that our findings were meaningfully biased by our assumption that prevalences of violence were stable during the time period between their publication and 2014, the year of estimation of the population-at-risk. For over 90% of our estimates, this lag-time was 1 to 5 years. A recent report demonstrates trends in child maltreatment in 6 countries remained unchanged from the mid-1970s through 2010;44 thus, it may be reasonable to assume violence rates were relatively constant over time.

Just as global recognition of the endemic magnitude of violence against children has sped forward over the past decade, the multisector evidence demonstrating that such violence is largely preventable has advanced.14,5,66 The state of evidence demonstrates interventions to address violence against children should cross strata of the socioecologic model, including the child, family, community, and society.1,67 For optimum impact, such policies and programs will be multisector, spanning health, social services, education, and justice sectors.1 In the United States, for example, although NatSCEV shows no overall reductions in recent trends in direct victimization of children, administrative data from child protection agencies shows a 40% decline in substantiated child sexual abuse from 1990 to 2000; this decline may be linked to the interplay of programs and policies implemented across sectors.68 The integration of multisector approaches with ones that are also multi-stakeholder should accelerate progress, engaging governments, business, nongovernmental, and civil society organizations in the shared goal of caring for the world’s children.

The World Health Organization, in collaboration with UNICEF, UNODC, PEPFAR, USAID, World Bank, US Department of State, Centers for Disease Control and Prevention, and Together for Girls, is leading the development of a unified package of these 7 evidence-based strategies to prevent violence against children: teaching positive parenting skills, helping children develop social-emotional skills and stay in school, raising access to health, protection, and support services, implementing and enforcing laws that protect all children, valuing social norms that protect children, empowering families economically, and sustaining safe environments for children. These
strategies are in large part built as an adaptation of the CDC THRIVES core package and similar guidance from WHO, UNICEF, PEPFAR, and USAID.65–67,69–90

CONCLUSIONS

Our findings using population-based data from approximately half of the countries in the world show that over 1 billion children ages 2 to 17 years have experienced violence in the past year. These data demonstrate an urgent need for wider adoption, scaling, and sustaining of evidence-based interventions to reduce this high burden of violence against children.69 Improved surveillance of the range of types, locations, and perpetrators of violence against children, as well as of access to key prevention interventions, is essential to target prevention, monitor progress, and drive the urgent action endorsed in the 2030 Sustainable Development Agenda.2 The time is ripe for the newly-established Global Partnership to End Violence Against Children to catalyze multi-stakeholder investments in expansive solutions for a billion children.2,91–93

ABBREVIATIONS

CTS: Conflict Tactics Scale
GSHS: Global School Health Surveys
HBSC: Health Behavior in School-Aged Children Surveys
MICS: Multiple Indicator Surveys
NatSCEV: National Survey of Children’s Exposure to Violence
SDG: sustainable development goals
UN: United Nations
VACS: Violence Against Children Surveys

The findings and conclusions in this paper are those of the author(s) and do not necessarily represent the official position of the Centers for Disease Control and Prevention.

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Address correspondence to Susan Hillis, PhD, MSN, CAPT, U.S. Public Health Service, National Center for Injury Prevention and Control, Centers for Disease Control and Prevention, 1600 Clifton Rd, Atlanta, GA 30333. E-mail: shillis@cdc.gov

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