



Child and Youth Pedestrian Safety Resource Guide 2022



This project is supported by the Health Resources and Services Administration (HRSA) of the U.S. Department of Health and Human Services (HHS) under the Child and Adolescent Injury and Violence Prevention Resource Centers Cooperative Agreement (U49MC28422) for \$5,000,000 with 0 percent financed with non-governmental sources. This information or content and conclusions are those of the author and should not be construed as the official position or policy of, nor should any endorsements be inferred by HRSA, HHS or the U.S. Government.

October 2022

Contents

Introduction	3
Organizations	4
Data Sources	5
Prevention Resources	6
Policies	7
Publications	8
State and Community Based Programs	9



INTRODUCTION

Everyone is a pedestrian – whether you are walking, using a wheelchair, a scooter, roller skates or skateboard. Among children and adolescents ages 0 – 19 years, most pedestrian deaths occur among males, in non-metro areas, at non-intersection locations and at night.^{1,2} American Indian/ Alaska Native and Black children ages 0 – 19 years are at higher risk for pedestrian death and injury than other racial/ethnic groups. Every year, approximately 600 US children and adolescents die from pedestrian-related injuries. In 2020, one in eight children and adolescents under the age of 20 who were killed in crashes were pedestrians (CDC WISQARS).

According to the Pedestrian and Bicycle Information Center at the University of North Carolina, many low-income communities and underserved populations have historically been left out of conversations about transportation planning which has led to unsafe conditions where pedestrians and bicyclists are over-represented in crashes.

By combining engineering, education and the enforcement of laws and policies, pedestrian deaths and injuries can be prevented. To help you find the most current information on child and adolescent pedestrian safety, this guide shares links in the following sections: (1) organizations; (2) data; (3) data sources; (4) prevention resources (5) policies and (6) publications. The resources included in this guide are not meant to be comprehensive, nor are the listings intended as endorsements.

1 Centers for Disease Control and Prevention Web-based Inquiry Statistics Query and Reporting System (CDC WISQARS)
<https://www.cdc.gov/injury/wisqars/index.html>

2 Equity. PedBike Info. Pedestrian and Bicycle Information Center. University of North Carolina Highway Safety Research Center.
<https://www.pedbikeinfo.org/topics/equity.cfm> Accessed July 31, 2022.

ORGANIZATIONS

American Automobile Association (AAA)

<https://exchange.aaa.com/safety/pedestrian-safety/>

Centers for Disease Control and Prevention (CDC)

https://www.cdc.gov/transportationsafety/pedestrian_safety/index.html

Governors Highway Safety Association (GHSA)

<http://www.ghsa.org/>

Institute of Transportation Engineers (ITE)

<https://www.ite.org/>

Insurance Institute for Highway Safety (IIHS)

<https://www.iihs.org/topics/pedestrians-and-bicyclists>

National Highway Traffic Safety Administration (NHTSA)

<https://www.nhtsa.gov/road-safety/pedestrian-safety>

Pedestrian and Bicycle Information Center | University of North Carolina Transportation Research Center

<https://www.pedbikeinfo.org/topics/equity.cfm>

Smart Growth America

<https://smartgrowthamerica.org/what-is-smart-growth/>

Vision Zero Network

<https://visionzeronetwork.org/about/vision-zero-network/>

DATA

Child Pedestrian Safety in the US: Trends and Implications for Prevention | Safe Kids Worldwide (2020)

<https://www.safekids.org/research-report/child-pedestrian-safety-us-trends-and-implications-prevention>

Fatality Facts 2020. Pedestrians | Insurance Institute for Highway Safety (IIHS) (2022)

<https://www.iihs.org/topics/fatality-statistics/detail/pedestrians>

Pedestrian Traffic Fatalities by State. 2021 Preliminary Data | Governor's Highway Safety Association (GHSA) (2022)

<https://www.ghsa.org/resources/Pedestrians22>

Traffic Safety Facts. Early Estimates of Motor Vehicle Traffic Fatalities and Fatality Rate by Sub-Categories in 2021 | National Highway Traffic Safety Administration (NHTSA) (2022)

<https://crashstats.nhtsa.dot.gov/Api/Public/ViewPublication/813298>

DATA SOURCES

CDC WISQARS (Web-based Injury Statistics Query and Reporting System) | CDC

<https://www.cdc.gov/injury/wisqars/index.html>

CDC WONDER | Centers for Disease Control

<https://wonder.cdc.gov/>

Healthcare Cost and Utilization Project (HCUP) Databases | Agency for Healthcare Research and Quality

<https://www.ahrq.gov/data/hcup/index.html>

National Center for Fatality Review and Prevention

<https://www.ncfrp.org/>

National Trauma Data Bank | US College of Surgeons

<https://www.facs.org/quality-programs/trauma/quality/national-trauma-data-bank/>

Crash Data Systems | National Highway Traffic Safety Administration

<https://www.nhtsa.gov/data/crash-data-systems>

Crash Injury Research (CIREN)

<https://www.nhtsa.gov/research-data/crash-injury-research>

Crash Investigation Sampling System (CISS)

<https://www.nhtsa.gov/crash-data-systems/crash-investigation-sampling-system>

Crash Report Sampling System (CRSS)

<https://www.nhtsa.gov/crash-data-systems/crash-report-sampling-system>

Fatality Analysis Reporting System (FARS)

<https://www.nhtsa.gov/crash-data-systems/fatality-analysis-reporting-system>

State Data Programs

<https://www.nhtsa.gov/crash-data-systems/state-data-programs>

PREVENTION RESOURCES

AAA School Safety Patrol | American Automobile Association

<https://exchange.aaa.com/safety/aaa-school-safety-patrol/>

All Children Are Pedestrians! Prevention Tips and Recent Statistics | Children's Safety Network (CSN) (2022)

<https://childrenssafetynetwork.org/infographics/infographic-child-pedestrian-safety>

Child and Youth Pedestrian Crashes Deserve Another Look: Why and How To Do It | Pedestrian and Bicycle Information Center (2022)

https://www.pedbikeinfo.org/webinars/webinar_details.cfm?id=115

Child Pedestrian Safety Curriculum | National Highway Traffic Safety Administration (NHTSA)

<https://www.nhtsa.gov/pedestrian-safety/child-pedestrian-safety-curriculum>

Complete Streets | U.S. Department of Transportation

<https://www.transportation.gov/mission/health/complete-streets#:~:text=Complete%20Streets%20are%20streets%20designed,bicyclists%2C%20or%20public%20transportation%20riders>

Countermeasures That Work: A Highway Safety Countermeasure Guide for State Highway Safety Offices | National Highway Traffic Safety Administration (2020)

<https://www.nhtsa.gov/document/countermeasures-that-work-10th-edition>

Engineering Solutions Guide | Safe Routes Partnership (2020)

https://www.saferoutespartnership.org/sites/default/files/resource_files/srts_engineering_solutions_guide_3.12_updated_3.23.21.pdf

How to Not Get Hit by a Car | Safe Kids Worldwide

<https://www.safekids.org/howtowalk/>

Implementing Safe Routes to School in Low-Income Schools and Communities: A Resource Guide for Volunteers and Professionals | National Center for Safe Routes to School (2010)

<https://www.saferoutespartnership.org/sites/default/files/pdf/LowIncomeGuide.pdf>

Pedestrian and Bicycle Safety | Federal Highway Administration

https://safety.fhwa.dot.gov/ped_bike/

Pedestrian Safety | Safe Kids Worldwide
<https://www.safekids.org/walkingsafelytips>

Proven Safety Countermeasures | Federal Highway Administration
<https://safety.fhwa.dot.gov/provencountermeasures/>

Ruby Bridges Walk to School Day | American Automobile Association (AAA)
<https://exchange.aaa.com/safety/aaa-school-safety-patrol/>

Safe Routes | National Center for Safe Routes to School
<https://www.saferoutesinfo.org/>

Walk, Bike and Roll to School | UNC Highway Safety Research Center
<https://www.walkbiketoschool.org/#learnmore>

Working With Metropolitan Planning Organizations
<https://www.railstotrails.org/build-trails/trail-building-toolbox/planning/working-with-mpos/>

Zero Deaths and Safe System | Federal Highway Administration
https://safety.fhwa.dot.gov/zerodeaths/zero_deaths_vision.cfm

POLICIES

Pedestrian and Crosswalk Laws in All 50 States
<https://www.mwl-law.com/wp-content/uploads/2018/10/PEDESTRIAN-AND-CROSSWALKS-50-STATE-CHART-00214802x9EBBF.pdf>

Pedestrian Safety Guide for Transit Agencies | Federal Highway Administration
https://safety.fhwa.dot.gov/ped_bike/ped_transit/ped_transguide/ch5.cfm

Traffic Safety State Bill Tracking | National Conference of State Legislatures
<https://www.ncsl.org/research/transportation/state-traffic-safety-legislation-database.aspx#searchdb>

PUBLICATIONS

Child Pedestrian Behaviors: Influence of Peer Social Norms and Correspondence Between Self-Reports and Crossing Behaviors | Journal of Safety Research (2019)

Morrongiello BA, Seasons M, McAuley K, Koutsoulianos S

<https://www.sciencedirect.com/science/article/abs/pii/S0022437518305474?via%3Dihub>

Objective and Perceived Traffic Safety for Children: A Systematic Literature Review of Traffic and Built Environment Characteristics Related to Safe Travel | International Journal of Environmental Research and Public Health (2022)

Amiour Y, Waygood EOD, van den Berg PEW

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8910047/>

Pedestrian Navigation and Public Transit Training Interventions for Youth with Disabilities: A Systematic Review | Disability and Rehabilitation (2019)

Lindsay S, Lamptey DL

<https://www.tandfonline.com/doi/full/10.1080/09638288.2018.1471165>

Residential Development Patterns and Child Pedestrian Injuries | Journal of Transportation Safety and Security (2020)

Ferenchak NN

<https://www.tandfonline.com/doi/full/10.1080/19439962.2020.1726543>

State-of-the-Art Review: Preventing Child and Youth Pedestrian Motor Vehicle Collisions: Critical Issues and Future Directions | Injury Prevention (2020)

Cloutier MS, Beaulieu E, Fridman L, Macpherson AK, Hagel BE et al.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7848053/>

Supervision of Young Children in Parking Lots: Impact on Child Pedestrian Safety | Journal of Safety Research (2019)

Rouse JB, Schwebel DC

<https://www.sciencedirect.com/science/article/abs/pii/S0022437519302191?via%3Dihub>

STATE AND COMMUNITY BASED PROGRAMS

Community-Based Pedestrian and Bicycle Safety Program: Developmental Framework and Process Evaluation | Journal of the Transportation Research Board (2019)

Sandt L, Marshall SW, Ennett ST

<https://doi.org/10.3141/2519-06>

How Effective are Community Pedestrian Safety Training Workshops? Short-Term Findings from a Program in California | Journal of Transport and Health (2019)

Barajas JM, Beckill KM, Cooper JF, Lopez A, Reynosa A

<https://doi.org/10.1016/j.jth.2019.01.002>

Rhode Island Waves

<https://riwaves.org/>

Vision Zero for Youth Demonstration Project in Philadelphia, PA (2019 – 2021)

https://www.pedbikeinfo.org/cms/downloads/PBIC_InfoBrief_VZYPHila.pdf

Watch For Me – North Carolina

<https://www.watchformenc.org/>



Children's Safety Network

43 Foundry Avenue

Waltham, MA 02453

Facebook: facebook.com/childrenssafetynetwork

Twitter: twitter.com/ChildrensSafety

Pinterest: pinterest.com/childrenssafety

Newsletter: go.edc.org/csn-newsletter