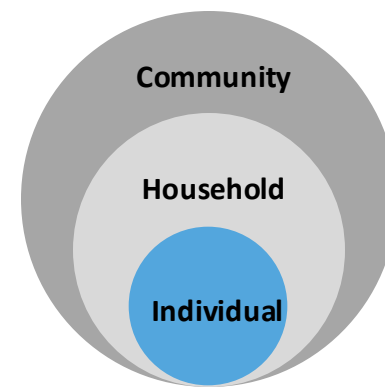


Content Map

Children's Healthy Living (CHL) Study – Individual Level Measures

This content map includes the individual-, household-, and community-level measures collected in the CHL study.



CHL Multi-level data

Demographics & Culture
a. Child Age, Sex, Race/ethnicity
<ul style="list-style-type: none"> Age Sex Race/ethnicity Indigenous (to jurisdiction)
b. Location
<ul style="list-style-type: none"> Jurisdiction Community Years lived in jurisdiction Birthplace
c. Language
<ul style="list-style-type: none"> Language most often spoken at home Multilingual
d. Acculturation
<ul style="list-style-type: none"> Acculturation group (Integrated, Assimilated, Marginalized, Traditional) Acculturation score overall Acculturation score group tradition Acculturation score US

Early Childhood Health
b. Medical Diagnoses (Y/N)*
<ul style="list-style-type: none"> ADHD Allergies Anemia Apnea Asthma Autism Bleeding condition Bowel problem Breathing problem Cancer Cerebral Palsy Celiac Disease Congenital condition Constipation Dental problem Developmental delay Diabetes Disabled Ear problem Eczema Epilepsy
<p>*For full list of diagnoses, see the CHL data codebook</p>

Dietary Intake (2-day food records)
a. Nutrient Intake
<ul style="list-style-type: none"> Total energy intake (kcal) Macronutrient intake Micronutrient intake Meets or exceeds DRI recommendations (Y/N)
b. Foods/Food group intake (in servings unless indicated otherwise)
<ul style="list-style-type: none"> Added sugar (tsp) Cheese Milk Total dairy Citrus, melon, berries Other fruits Total fruit Non-whole grain Whole grain Total grain Beef, pork, lamb (oz) Franks & luncheon meat (oz) Fish & other seafood (oz) Eggs (oz-eq) Poultry (oz) Soy (oz-eq) Nuts/seeds (oz-eq) Deep-yellow vegetables Other vegetables White potatoes Starchy vegetables Tomato Total vegetables Sugar-sweetened beverages Water
c. Diet Quality
<ul style="list-style-type: none"> Healthy Eating Index (HEI) Total & Component Scores (2005, 2015, 2020) Dietary Approaches to Stop Hypertension (DASH) Total & Component Scores

Child Health Outcomes
a. Body Mass Index (BMI)
<ul style="list-style-type: none"> BMI z-score BMI categories BMI percentile Overweight/obesity status (based on growth curve percentiles) Weight-for-age percentile Weight-for-height percentile Height-for-age percentile Birth length Birth weight
b. Waist Circumference
<ul style="list-style-type: none"> Abdominal adiposity
c. Acanthosis Nigricans (AN)
<ul style="list-style-type: none"> Presence of AN (Y/N) Severity of AN (1-4)

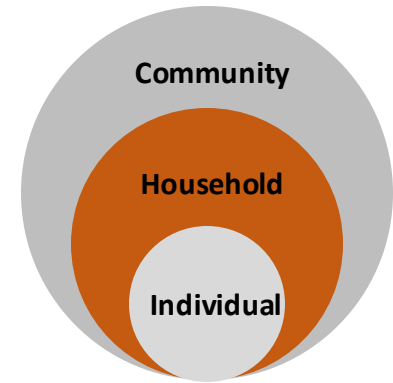
d. Contextual information about meals
<ul style="list-style-type: none"> Location prepared Location consumed Time of day Food source Detailed descriptions of food

Physical Activity/Sedentary Behavior
a. Physical Activity Logs (2-day activity log)
<ul style="list-style-type: none"> Calories burned by PA Sedentary activity total & MET minutes Light activity total & MET minutes Moderate activity total & MET minutes Vigorous activity total & MET minutes Sleep total & MET minutes
b. Actical (2- to 6-day accelerometer)
<ul style="list-style-type: none"> Minutes & MET hours per day by activity level (Sedentary, Light, Moderate, Vigorous)
c. Sedentary behavior/Screen time
<ul style="list-style-type: none"> Screen time recommendations met (<2 hr/d) Weekday & weekend total screen time Weekday & weekend TV time Weekday & weekend active video game time Weekday & weekend inactive video game time
b. Sleep behavior
<ul style="list-style-type: none"> Sleep – difficulty falling asleep Sleep – time to fall asleep Sleep – disturbances Sleep – outside of own bed Sleep – total score Sleep – total sleep time in 24 hours (w/ naps)

Content Map

Children's Healthy Living (CHL) Study – Household Level Measures

This content map includes the individual-, household-, and community-level measures collected in the CHL study.



CHL Multi-level data

Additional resources:

To view individual- and household-level data collection forms, see [here for Time 1](#) and [here for Time 2 and 3](#).

For more information on the research or service request process, visit the [CHL Data Center](#).



Household Composition
a. Household size and makeup
<ul style="list-style-type: none"> Number of siblings Number of other children living in household (age and sex) Number of other relatives living in household (e.g. grandparents, aunts, uncles, cousins) Number of other individuals living in household (e.g. friends, domestic helpers, nanny)
b. Caregiver marital status
<ul style="list-style-type: none"> Marital status of respondent (married, single, divorced, widowed, single living w/ partner, single not living w/ partner)
c. Multigenerational status
<ul style="list-style-type: none"> Presence of at least three generations in household

Household Socioeconomics
a. Household income
<ul style="list-style-type: none"> Annual household income over 12 months
b. Caregiver Employment Status
<ul style="list-style-type: none"> Employment status (retired, self-employed, student, subsistence living, homemaker, unable to work, unemployed) More than one job
c. Caregiver Education
<ul style="list-style-type: none"> Highest grade or year completed

Health Behaviors (Substance Use)
a. Alcohol/Kava <i>Includes specific questions for beer, liquor, mixed drinks, kava, tuba</i>
<ul style="list-style-type: none"> Caregiver alcohol use Number of days drank Number of drinks per day Total drinks in 30 days Number of household members who drank any alcohol
b. Smoking/Tobacco <i>Includes cigarette, cigar, pipes, chewing</i>
<ul style="list-style-type: none"> Caregiver tobacco use (Y/N) Tobacco frequency Tobacco daily amount Number of household members who use any tobacco products
c. Betel Nut
<ul style="list-style-type: none"> Caregiver betel nut use (Y/N) Betel nut use frequency Betel nut use duration Number of household members who chewed betel nut in last 30 days

Religious Practice
a. Religious Affiliation
<ul style="list-style-type: none"> Religious Affiliation (Y/N) Description of religious affiliation (i.e. denomination) Frequency of engagement in religious activities (per week, per month)

Household Food Security
a. Food & utility security
<ul style="list-style-type: none"> Money runs out for food (last 12 months) Money runs out for utilities (last 12 months)
b. Food assistance
<ul style="list-style-type: none"> Federal food assistance (SNAP, NAP) Assistance from food banks, pantries, commodity foods Reduced-cost school meals WIC benefits Other benefits

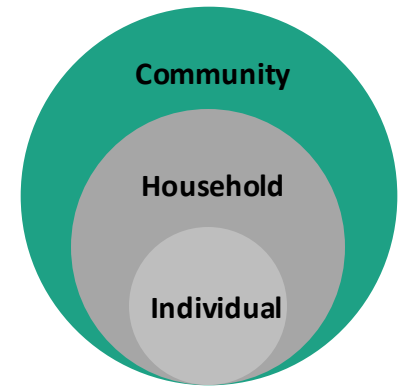
Household Water Source		
a. Source of water used at home		
<table border="0"> <tr> <td> <ul style="list-style-type: none"> Purchased bottle water Community rain collection Home rain collection Household tap </td> <td> <ul style="list-style-type: none"> Neighbor tap Refilling station River/stream/creek Spring Public/shared standpipe </td> </tr> </table>	<ul style="list-style-type: none"> Purchased bottle water Community rain collection Home rain collection Household tap 	<ul style="list-style-type: none"> Neighbor tap Refilling station River/stream/creek Spring Public/shared standpipe
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Household Fuel Source		
a. Source of fuel used at home		
<table border="0"> <tr> <td> <ul style="list-style-type: none"> Agricultural crop residue Animal dung Biogas Charcoal Coal Electricity </td> <td> <ul style="list-style-type: none"> Kerosene Liquefied petroleum gas Natural gas Straw, shrub, grass Wood </td> </tr> </table>	<ul style="list-style-type: none"> Agricultural crop residue Animal dung Biogas Charcoal Coal Electricity 	<ul style="list-style-type: none"> Kerosene Liquefied petroleum gas Natural gas Straw, shrub, grass Wood
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Content Map

Children’s Healthy Living (CHL) Study – Community Level Measures (Physical Activity Environment)

This content map includes the individual-, household-, and community-level measures collected in the CHL study.



CHL Multi-level data

Additional resources:
For more detail about the Community Assessment Toolkit (CAT) used to survey food and physical activity community resources, explore the [CAT Study Design](#) documentation.



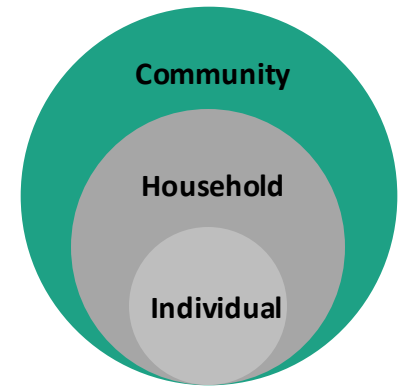
Physical Activity Environment	
a. Sports Features – surveyed at Parks, Churches, Schools, or Other Facility	
<i>Number, condition (ok/good, poor, not rated), and lighting availability (if outdoor) of:</i>	
<ul style="list-style-type: none"> Baseball fields (outdoor) Basketball courts (indoor/outdoor) Exercise machine areas (indoor) Football fields (outdoor) Gymnastics facilities (indoor) Multi purpose rooms (indoor) Multi-use courts (indoor/outdoor) Multi-use fields (outdoor) Playgrounds (outdoor) 	<ul style="list-style-type: none"> Pools (indoor/outdoor) Racquetball/squash courts (indoor) Rock climbing wall (outdoor) Running/walking tracks (indoor/outdoor) Skateboarding facilities (indoor/outdoor) Soccer fields (indoor/outdoor) Tennis courts (indoor/outdoor) Volleyball courts (indoor/outdoor)
b. Features and Amenities – surveyed at Parks, Churches, Schools, or Other Facility	
<i>Presence and condition of:</i>	
<ul style="list-style-type: none"> Beaches w/ lifeguard Recreational beaches Swimmable beaches Benches Decorative fountains Drinking fountains Fence Green space 	<ul style="list-style-type: none"> Grills Shelters Unshaded picnic tables Shaded picnic tables Trails Trash containers Other water features Restrooms
<i>Beverage availability</i>	<i>Church Facilities only:</i>
<ul style="list-style-type: none"> Diet soda 100% juice Other sweetened drinks Regular soda Bottled water Beverage vending machines 	<ul style="list-style-type: none"> Programs available Access signage Area for sports
	<i>Park Facilities only:</i>
	<ul style="list-style-type: none"> Entrance fee required

Physical Activity Environment	
c. Incivilities – surveyed at Parks, Churches, Schools, or Other Facility	
<ul style="list-style-type: none"> Alcohol use Broken glass Dog refuse Unattended dogs Garbage 	<ul style="list-style-type: none"> Graffiti Sex Paraphernalia Vandalism Substance Use
e. Overall Scores	
<ul style="list-style-type: none"> Total Number of Features Features Score (Percent, Ratio) Total Number of Amenities Amenities Score (Percent, Ratio) Total Incivilities Score Incivilities Score (Percent, Ratio) Total Number of Sports Features Sports Features Score (Percent, Ratio) Total Physical Activity Score (sum of Features, Amenities, and Incivilities Scores) 	
Community Walkability	
<i>Two street segments per community were assessed for walkability</i>	
<ul style="list-style-type: none"> Obstructions at start or completion of walk (major road, beach/woods, unsafe, other reason) Visibility of benches, park, bus stop, bike path, or store along walk Shade Presence and behavior of dogs Material type (asphalt/concrete, dirt, gravel, mulch, other material) Surface (path, road, shoulder, sidewalk) Room to walk Safety of crossing streets Drivers and behavior Incivilities Overall Walk Rating 	

Content Map

Children’s Healthy Living (CHL) Study – Community Level Measures (Food Environment)

This content map includes the individual-, household-, and community-level measures collected in the CHL study.



CHL Multi-level data

Additional resources:

For more detail about variables and data availability by jurisdiction and time point, explore the [CHL data codebook](#).

For more information on the research or service request process, visit the [CHL Data Center](#).



Food Environment	Food Environment
<p>a. Fast Food Environment</p> <p><i>Beverage availability:</i></p> <ul style="list-style-type: none"> Bottled water Coconut water Coffee drinks Fountain drinks 100% juice Milk (flavored, skim, whole) Shakes or malts Packaged soda <p><i>Food availability:</i></p> <ul style="list-style-type: none"> Cheeseburger Fried chicken French fries Cheese pizza Entrée salad Chicken sandwich Sub sandwich (turkey/cheese) Taco w/ ground beef <p><i>Facility Interior Characteristics:</i></p> <ul style="list-style-type: none"> Free water Indoor seating Child play area Number cash registers Restrooms Self-service fountain drinks Self-serve salad bar Sweets for sale counter <p><i>Facility Exterior Characteristics:</i></p> <ul style="list-style-type: none"> Garbage Graffiti Outdoor seating Parking on-site Parking lighting Sidewalk on street Sidewalk lighting <p><i>Exterior Marketing and Advertisements:</i></p> <ul style="list-style-type: none"> Child-targeted marketing Ads w/ cartoon characters Ads w/ kids meal toy Ads w/ celebrity Ads w/ health claim Ads w/ soda, beverage, food Total number of ads 	<p><i>Store Interior Marketing</i></p> <ul style="list-style-type: none"> Products and advertisements at checkout Presence of unhealthy or healthy food ads <p><i>Store Exterior Marketing</i></p> <ul style="list-style-type: none"> Vending machines and product types Visibility from school Presence of unhealthy or healthy food ads <p><i>Nutrition information</i></p> <p><i>Store Environment Walkability</i></p> <ul style="list-style-type: none"> Obstructions at start or completion of walk (major road, beach/woods, unsafe, other reason) Visibility of benches, park, bus stop, bike path, or store along walk Shade Presence and behavior of dogs Material type (asphalt/concrete, dirt, gravel, mulch, other material) Surface (path, road, shoulder, sidewalk) Room to walk Safety of crossing streets Drivers and behavior Incivilities Overall Walk Rating <p><i>Overall Food Environment Scores</i></p> <ul style="list-style-type: none"> Store outlet assessment (max: 100) Fast food restaurant assessment <p>c. Food Cost Survey – three stores per community (e.g. supermarket chain, large grocery store, small market, convenience store, ‘other’ such as farmer’s market or drug store)</p> <p><i>Cost of food items included in the USDA Thrifty Food Plan (TFP)*</i></p> <ul style="list-style-type: none"> Cost of food item at each store Average price Weighted price Percent of weighted price <p><i>Cost of food for family of 4 based on TFP (by community)</i></p> <ul style="list-style-type: none"> Monthly price Weekly price <p>*For the complete list of foods included, please see the CHL data codebook</p>
<p>b. Food Store Outlet Assessment</p> <p><i>Accepts WIC and Food stamps/SNAP/EBT</i></p> <ul style="list-style-type: none"> Signage displayed <p><i>Availability, price, and quality of fresh fruits and vegetables (FV)</i></p> <ul style="list-style-type: none"> Apples, bananas, breadfruit, broccoli, cabbage, carrots, cassava, ong choi, oranges, pandanus, taro, tomatoes <p><i>Availability of other healthful foods</i></p> <ul style="list-style-type: none"> E.g. beans, whole wheat bread, canned or frozen FV, high fiber cereal/grains, whole lean meats, dairy products or soy alternatives 	