**Table S1: Adaptation of the NEWS-Y for the IPEN Adolescent study (NEWS-Y-IPEN)**

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| Original NEWS-Y subscale and items | Adaptations | Country-specific differences | Included in (CFA) *a priori*; final measurement models |
| ***Residential density*** | Original responses ranging from 1 to 5, with 1 = ‘none’. This results in positive density scores even in the absence of residential buildings. Responses were recoded as follows: 0 = none; 1 = a few; 2 = some; 3 = most; 4 = all. | None |  |
| 1. Separate or stand-alone one family homes
 | Wording changed to ‘Detached single-family residences’ | None | N/A; N/A |
| 1. Connected townhouses or row of houses
 | Wording changed to ‘Multi-family houses of 1-3 stories’. Density weight changed from 12 to 11 to correspond to the IPEN Adult version of the NEWS.  | None | N/A; N/A |
| 1. Multiple-family or duplex homes
 | Wording changed to ‘Multi-family houses of 4-6 stories’. Density weight changed from 2 to 25 to reflect the average density of the modified item. | None | N/A; N/A |
| 1. Apartment or condo buildings
 | Wording changed to ‘Multi-family houses of 7-12 stories’. Density weight changed from 25 to 50 to reflect the average density of the modified item. | None | N/A; N/A |
|  | Added item ‘Multi-family houses of 13-20 stories’ with density weight 75. | None | N/A; N/A |
|  | Added item ‘Multi-family houses of over 20 stories’ with density weight 100. | Denmark did not include this item because the study site (Odense) does not have residential 20+ story residential buildings. | N/A; N/A |
| ***Land use mix - diversity*** | None to response scale. | None |  |
| 1. Convenience store/ corner store / small grocery store
 | None | None | N/A; N/A |
| 1. Supermarket
 | None | None | N/A; N/A |
| 1. Hardware store
 | Omitted to shorten the subscale. This type of destination is not considered very relevant to adolescents. | None | N/A; N/A |
| 1. Fruit / vegetable market
 | Omitted to shorten the subscale. This type of destination is not considered very relevant to adolescents. | None | N/A; N/A |
| 1. Laundry or dry cleaners
 | None | None | N/A; N/A |
| 1. Clothing store
 | Omitted to shorten the subscale. Probably not frequently visited destination by adolescents. | Several countries included this item in their survey. | N/A; N/A |
| 1. Post office
 | None | None | N/A; N/A |
| 1. Library
 | None | None | N/A; N/A |
| 1. Elementary school
 | Changed to “Any school”. | None | N/A; N/A |
| 1. Middle or high school
 | Changed to “Your child’s school” to assess distance to school as one of the main predictors of active transport to school. | None | N/A; N/A |
| 1. Bookstore
 | Omitted to shorten the subscale. Probably not frequently visited destination by adolescents. | Several countries included this item in their survey. | N/A; N/A |
| 1. Fast food restaurant
 | None | None | N/A; N/A |
| 1. Coffee place
 | None | None | N/A; N/A |
| 1. Bank / credit union
 | None | None | N/A; N/A |
| 1. Non-fast food restaurant
 | None | None | N/A; N/A |
| 1. Video store
 | Omitted to shorten the subscale. Probably not frequently visited destination by adolescents. | Several countries included this item in their survey. | N/A; N/A |
| 1. Pharmacy / drug store
 | None | None | N/A; N/A |
| 1. Hairdresser / barber shop
 | Omitted to shorten the subscale. Probably not frequently visited destination by adolescents. | None | N/A; N/A |
| 1. Any offices / worksites.
 | Omitted to shorten the subscale. This type of destination is not considered very relevant to adolescents. | None | N/A; N/A |
| 1. Bus, subway or train stop
 | None | None | N/A; N/A |
| ***Recreational facilities*** | None to the response scale. | None |  |
| 1. Indoor recreation or exercise facility (public or private)
 | None | None | N/A; N/A |
| 1. Beach, lake, river or creek
 | None | None | N/A; N/A |
| 1. Bike / hiking / walking trails, paths
 | None | None | N/A; N/A |
| 1. Basketball court
 | None | None | N/A; N/A |
| 1. Other playing fields / courts (e.g., soccer, skate park, etc.)
 | None | None | N/A; N/A |
| 1. YMCA
 | Omitted as not relevant in many countries. | None | N/A; N/A |
| 1. Boys and girls club
 | Omitted as more relevant to children than adolescents. | None | N/A; N/A |
| 1. Swimming pool
 | None | None | N/A; N/A |
| 1. Walking / running track
 | Omitted as covered by items 3 and 5. | None | N/A; N/A |
| 1. School with recreational facilities open to the public
 | None | Nigeria did not include this item. | N/A; N/A |
| 1. Small public park
 | None | Nigeria did not include this item. | N/A; N/A |
| 1. Large public park
 | None | Nigeria did not include this item. | N/A; N/A |
| 1. Public playground with equipment
 | Omitted as more relevant to children than adolescents. | None | N/A; N/A |
| 1. Public open space (grass or sand/dirt) that is not a park
 | Omitted to shorten the scale. | Several countries included this item in their survey. | N/A; N/A |
| ***Land use mix – access*** | None to the response scale. | None |  |
| 1. Stores within easy walking distance of our home
 | Omitted to shorten the scale. Attribute covered by the Land use mix – diversity scale. | Several countries included this item in their survey. | No; No |
| 1. Parking is difficult in shopping areas
 | None | None | Yes; No |
| 1. Many places for my child to go (alone/with someone) within easy walking distance
 | Omitted to shorten the scale. Attribute covered by the Land use mix – diversity scale. | Several countries included this item in their survey. | No; No |
| 1. Easy for my child to walk (alone/with someone) to a transit stop
 | Omitted to shorten the scale. Attribute covered by the Land use mix – diversity scale. | Several countries included this item in their survey. | No; No |
| 1. Hilly streets make it difficult for my child to walk in
 | None | None | Yes; Yes |
| 1. Major barriers to walking make it hard to get from place to place
 | Omitted to shorten the scale.  | Several countries included this item in their survey. | No; No |
| ***Pedestrian and automobile traffic safety*** | None to the response scale. | None |  |
| 1. Difficult/unpleasant for my child to walk due to traffic in the neighborhood
 | None | None | Yes; Yes |
| 1. Speed of traffic usually slow (30 mph)
 | None | None | Yes; Yes |
| 1. Drivers drive faster than speed limit
 | None | None | Yes; Yes |
| 1. Good lighting at night
 | None | None | Yes; Yes |
| 1. Easy view of walkers / bikers from houses
 | None | None | Yes; Yes |
| 1. Crosswalks and signals to cross busy streets
 | None | None | Yes; Yes |
| 1. Lots of exhaust fumes while walking
 | Omitted to shorten the scale. Feature less important for pedestrian safety.  | Several countries included this item in their survey. | No; No |
| ***Crime safety*** | None to the response scale. | None |  |
| 1. High crime rate
 | None | None | Yes; No |
| 1. High crime rate – unsafe to walk alone at night
 | Omitted to shorten the scale. Adolescents less likely to walk alone at night. | Several countries included this item in their survey. | No; No |
| 1. Fear of child being hurt by a stranger when alone outside around the home
 | None | None | Yes; Yes |
| 1. Fear of child being hurt by a stranger when with a friend outside around the home
 | None | None | Yes; Yes |
| 1. Fear of child being hurt by a stranger when walking alone or with a friend in local streets
 | None | None | Yes; Yes |
| 1. Fear of child being hurt by a stranger when alone or with a friend in local park
 | None | None | Yes; Yes |
| ***Aesthetics*** | None to the response scale. | None |  |
| 1. Presence of trees along the streets
 | None | None | Yes; No |
| 1. Presence of interesting things for my child to look at
 | None | None | Yes; Yes |
| 1. Presence of beautiful natural things for my child to look at
 | None | None | Yes; Yes |
| 1. Presence of buildings / homes nice for my child to look at
 | None | None | Yes; Yes |
| ***Walking /cycling facilities*** | None to the response scale. | None |  |
| 1. Presence of sidewalks on most of the streets
 | None | None | Yes; Yes |
| 1. Sidewalks separated from the road / traffic by parked cars
 | None | None | Yes; Yes |
| 1. Presence of grass / dirt between the streets and the sidewalks
 | None | None | Yes; No |
| ***Street connectivity*** | None to the response scale. | None |  |
| 1. Short distance between intersections
 | Omitted to shorten the scale. | Several countries included this item in their survey. | No; No |
| 1. Less cul-de-sacs in neighborhood
 | None | None | Yes; Yes |
| 1. Many different routes for getting from place to place in our neighborhood
 | None | None | Yes; Yes |