**\*\*\* Data processing notes.**

\* Generate age groups for children age 2-4 years and 5-17 years if all questions have been combined into one dataset for children age 2-17 years.

\* Weight the data by the appropriate children’s weight for each age group if necessary.

\* Before generating indicators, check to ensure the skip patterns for questions related to seeing, hearing, and walking have been followed.

\* For indicators generated from data collected through the questionnaire for children age 2-4 years, the denominator should be confined to

all children age 2-4 years including those with missing data; for indicators generated from the questionnaire for children age 5-17 years, the denominator

should be confined to all children age 5-17 years including those with missing data.

\* Handling missing data.

\* This syntax treats missing data such that those who have missing information on ALL of the individual domains of functions, as well as those who have missing information on SOME of the individual domains and “no difficulty” or “some difficulty” for the other individual domains, are coded as “Missing”.

\* When the non-missing domains are either “a lot of difficulty” or “cannot do at all”, the missing data will have no impact on disability determination since those are the thresholds for “disability”.

\* This approach of regarding as “Missing” when the non-missing domains are either “no difficulty” or “some difficulty” assumes that the number of missing values is small - both for the variables included in defining the indicator and for the number of variables that contain missing values. In data collections where the proportion of missing values is large in either of these cases, alternative methods for handling missing data should be considered depending on the amount and pattern of missing values. Syntax will need to be developed to reflect these case by case decisions.

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*.**

**\* CHILD FUNCTIONING FOR CHILDREN AGE 2-4 YEARS.**

\* Based on the recommended cut-off, the disability indicator includes "a lot more" difficulty for the question on controlling behavior,

and “a lot of difficulty" and "cannot do at all" for all other questions.

**\* PART ONE: Creating separate variables per domain of functioning.**

\* SEEING DOMAIN.

compute SEE\_IND = CF2.

if sysmis(CF2) SEE\_IND = CF3.

frequencies SEE\_IND.

recode SEE\_IND (1 thru 2 = 0) (3 thru 4 = 1) (else = 9) into Seeing\_2to4.

variable labels Seeing\_2to4 “Seeing\_2to4”.

value labels Seeing\_2to4 0 "No functional difficulty" 1 "With functional difficulty" 9 “Missing”.

\* HEARING DOMAIN.

compute HEAR\_IND = CF5.

if sysmis(CF5) HEAR\_IND = CF6.

frequencies HEAR\_IND.

recode HEAR\_IND (1 thru 2 = 0) (3 thru 4 = 1) (else = 9) into Hearing\_2to4.

variable labels Hearing\_2to4 “Hearing\_2to4”.

value labels Hearing\_2to4 0 "No functional difficulty" 1 "With functional difficulty" 9 “Missing”.

\* WALKING DOMAIN.

compute WALK\_IND = 0.

if (CF8 = 4 or CF9 = 4) WALK\_IND = 4.

if WALK\_IND <> 4 and (CF8 = 3 or CF9 = 3) WALK\_IND = 3.

if WALK\_IND <> 4 and WALK\_IND <> 3 and (CF8 = 2 or CF9 = 2) WALK\_IND = 2.

if WALK\_IND <> 4 and WALK\_IND <> 3 and WALK\_IND <> 2 and CF9 = 1 WALK\_IND = 1.

if ((WALK\_IND = 2 or WALK\_IND = 1) and (CF8 = 9 or CF9 = 9)) WALK\_IND = 9.

if sysmis(CF8) WALK\_IND = CF10.

frequencies WALK\_IND.

recode WALK\_IND (1 thru 2 = 0) (3 thru 4 = 1) (else = 9) into Walking\_2to4.

variable labels Walking\_2to4 “Walking\_2to4”.

value labels Walking\_2to4 0 "No functional difficulty" 1 "With functional difficulty" 9 “Missing”.

\* FINE MOTOR DOMAIN.

recode CF11 (1 thru 2 = 0) (3 thru 4 = 1) (else = 9) into Finemotor\_2to4.

variable labels Finemotor\_2to4 “Finemotor\_2to4”.

value labels Finemotor\_2to4 0 "No functional difficulty" 1 "With functional difficulty" 9 “Missing”.

\* COMMUNICATING DOMAIN.

compute COM\_IND = 0.

if (CF12 = 4 or CF13 = 4) COM\_IND = 4.

if COM\_IND <> 4 and (CF12 = 3 or CF13 = 3) COM\_IND = 3.

if COM\_IND <> 4 and COM\_IND <> 3 and (CF12 = 2 or CF13 = 2) COM\_IND = 2.

if COM\_IND <> 4 and COM\_IND <> 3 and COM\_IND <> 2 and (CF12 = 1 or CF13 = 1) COM\_IND = 1.

if ((COM\_IND = 2 or COM\_IND = 1) and (CF12 = 9 or CF13 = 9)) COM\_IND = 9.

frequencies COM\_IND.

recode COM\_IND (1 thru 2 = 0) (3 thru 4 = 1) (else = 9) into Communication\_2to4.

variable labels Communication\_2to4 “Communication\_2to4”.

value labels Communication\_2to4 0 "No functional difficulty" 1 "With functional difficulty" 9 “Missing”.

\* LEARNING DOMAIN.

recode CF14 (1 thru 2 = 0) (3 thru 4 = 1) (else = 9) into Learning\_2to4.

variable labels Learning\_2to4 “Learning\_2to4”.

value labels Learning\_2to4 0 "No functional difficulty" 1 "With functional difficulty" 9 “Missing”.

\* PLAYING DOMAIN.

recode CF15 (1 thru 2 = 0) (3 thru 4 = 1) (else = 9) into Playing\_2to4.

variable labels Playing\_2to4 “Playing\_2to4”.

value labels Playing\_2to4 0 "No functional difficulty" 1 "With functional difficulty" 9 “Missing”.

\* BEHAVIOUR DOMAIN.

recode CF16 (1 thru 3 = 0) (4 = 1) (else = 9) into Behaviour\_2to4.

variable labels Behaviour\_2to4 “Behaviour\_2to4”.

value labels Behaviour\_2to4 0 "No functional difficulty" 1 "With functional difficulty" 9 “Missing”.

**\* PART TWO: Creating disability indicator for children age 2-4 years.**

compute FunctionalDifficulty\_2to4 = 0.

if (Seeing\_2to4 = 1 or Hearing\_2to4 = 1 or Walking\_2to4 = 1 or Finemotor\_2to4 = 1 or Communication\_2to4 = 1 or Learning\_2to4 = 1 or Playing\_2to4 = 1 or Behaviour\_2to4 = 1) FunctionalDifficulty\_2to4 = 1.

if (FunctionalDifficulty\_2to4 <> 1 and (Seeing\_2to4 = 9 or Hearing\_2to4 = 9 or Walking\_2to4 = 9 or Finemotor\_2to4 = 9 or Communication\_2to4 = 9 or Learning\_2to4 = 9 or Playing\_2to4 = 9 or Behaviour\_2to4 = 9)) FunctionalDifficulty\_2to4 = 9.

variable labels FunctionalDifficulty\_2to4 “difficulty2to4”.

value labels FunctionalDifficulty\_2to4 0 "No functional difficulty" 1 “With functional difficulty” 9 “Missing”.

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*.**

**\* CHILD FUNCTIONING FOR CHILDREN AGE 5-17 YEARS.**

\* Based on the recommended cut-off, the disability indicator includes “daily” for the questions on anxiety and depression; and “a lot of difficulty" and "cannot do at all" for all other questions.

**\* PART ONE: Creating separate variables per domain of functioning.**

\* SEEING DOMAIN.

compute SEE\_IND = CF2.

if sysmis(CF2) SEE\_IND = CF3.

frequencies SEE\_IND.

recode SEE\_IND (1 thru 2 = 0) (3 thru 4 = 1) (else = 9) into Seeing\_5to17.

variable labels Seeing\_5to17 “Seeing\_5to17”.

value labels Seeing\_5to17 0 "No functional difficulty" 1 "With functional difficulty" 9 “Missing”.

\* HEARING DOMAIN.

compute HEAR\_IND = CF5.

if sysmis(CF5) HEAR\_IND = CF6.

frequencies HEAR\_IND.

recode HEAR\_IND (1 thru 2 = 0) (3 thru 4 = 1) (else = 9) into Hearing\_5to17.

variable labels Hearing\_5to17 “Hearing\_5to17”.

value labels Hearing\_5to17 0 "No functional difficulty" 1 "With functional difficulty" 9 “Missing”.

\* WALKING DOMAIN.

compute WALK\_IND1 = CF8.

if (CF8 = 2) WALK\_IND1 = CF9.

frequencies WALK\_IND1.

compute WALK\_IND2 = CF12.

if (CF12 = 1 or CF12 = 2) WALK\_IND2 = CF13.

frequencies WALK\_IND2.

compute WALK\_IND = WALK\_IND1.

if sysmis(WALK\_IND1) WALK\_IND = WALK\_IND2.

frequencies WALK\_IND.

recode WALK\_IND (1 thru 2 = 0) (3 thru 4 = 1) (else = 9) into Walking\_5to17.

variable labels Walking\_5to17 “Walking\_5to17”.

value labels Walking\_5to17 0 "No functional difficulty" 1 "With functional difficulty" 9 “Missing”.

\* SELFCARE DOMAIN.

recode CF14 (1 thru 2 = 0) (3 thru 4 = 1) (else = 9) into Selfcare\_5to17.

variable labels Selfcare\_5to17 “Selfcare\_5to17”.

value labels Selfcare\_5to17 0 "No functional difficulty" 1 "With functional difficulty" 9 “Missing”.

\* COMMUNICATING DOMAIN.

compute COM\_IND = 0.

if (CF15 = 4 or CF16 = 4) COM\_IND = 4.

if COM\_IND <> 4 and (CF15 = 3 or CF16 = 3) COM\_IND = 3.

if COM\_IND <> 4 and COM\_IND <> 3 and (CF15 = 2 or CF16 = 2) COM\_IND = 2.

if COM\_IND <> 4 and COM\_IND <> 3 and COM\_IND <> 2 and (CF15 = 1 or CF16 = 1) COM\_IND = 1.

if ((COM\_IND = 2 or COM\_IND = 1) and (CF15 = 9 or CF16 = 9)) COM\_IND = 9.

frequencies COM\_IND.

recode COM\_IND (1 thru 2 = 0) (3 thru 4 = 1) (else = 9) into Communication\_5to17.

variable labels Communication\_5to17 “Communication\_5to17”.

value labels Communication\_5to17 0 "No functional difficulty" 1 "With functional difficulty" 9 “Missing”.

\* LEARNING DOMAIN.

recode CF17 (1 thru 2 = 0) (3 thru 4 = 1) (else = 9) into Learning\_5to17.

variable labels Learning\_5to17 “Learning\_5to17”.

value labels Learning\_5to17 0 "No functional difficulty" 1 "With functional difficulty" 9 “Missing”.

\* REMEMBERING DOMAIN.

recode CF18 (1 thru 2 = 0) (3 thru 4 = 1) (else = 9) into Remembering\_5to17.

variable labels Remembering\_5to17 “Remembering\_5to17”.

value labels Remembering\_5to17 0 "No functional difficulty" 1 "With functional difficulty" 9 “Missing”.

\* CONCENTRATING DOMAIN.

recode CF19 (1 thru 2 = 0) (3 thru 4 = 1) (else = 9) into Concentrating\_5to17.

variable labels Concentrating\_5to17 “Concentrating\_5to17”.

value labels Concentrating\_5to17 0 "No functional difficulty" 1 "With functional difficulty" 9 “Missing”.

\* ACCEPTING CHANGE DOMAIN.

recode CF20 (1 thru 2 = 0) (3 thru 4 = 1) (else = 9) into AcceptingChange\_5to17.

variable labels AcceptingChange\_5to17 “AcceptingChange\_5to17”.

value labels AcceptingChange\_5to17 0 "No functional difficulty" 1 "With functional difficulty" 9 “Missing”.

\* BEHAVIOUR DOMAIN.

recode CF21 (1 thru 2 = 0) (3 thru 4 = 1) (else = 9) into Behaviour\_5to17.

variable labels Behaviour\_5to17 “Behaviour\_5to17”.

value labels Behaviour\_5to17 0 "No functional difficulty" 1 "With functional difficulty" 9 “Missing”.

\* MAKING FRIENDS DOMAIN.

recode CF22 (1 thru 2 = 0) (3 thru 4 = 1) (else = 9) into MakingFriends\_5to17.

variable labels MakingFriends\_5to17 “MakingFriends\_5to17”.

value labels MakingFriends\_5to17 0 "No functional difficulty" 1 "With functional difficulty" 9 “Missing”.

\* ANXIETY DOMAIN.

recode CF23 (2 thru 5 = 0) (1 = 1) (else = 9) into Anxiety\_5to17.

variable labels Anxiety\_5to17 “Anxiety\_5to17”.

value labels Anxiety\_5to17 0 "No functional difficulty" 1 "With functional difficulty" 9 “Missing”.

\* DEPRESSION DOMAIN.

recode CF24 (2 thru 5 = 0) (1 = 1) (else = 9) into Depression\_5to17.

variable labels Depression\_5to17 “Depression\_5to17”.

value labels Depression\_5to17 0 "No functional difficulty" 1 "With functional difficulty" 9 “Missing”.

**\* PART TWO: Creating disability indicator for children age 5-17 years.**

compute FunctionalDifficulty\_5to17 = 0.

if (Seeing\_5to17 = 1 or Hearing\_5to17 = 1 or Walking\_5to17 = 1 or Selfcare\_5to17 = 1 or Communication\_5to17 = 1 or Learning\_5to17 = 1

or Remembering\_5to17 = 1 or Concentrating\_5to17 = 1 or AcceptingChange\_5to17 = 1 or Behaviour\_5to17 = 1 or MakingFriends\_5to17 = 1 or Anxiety\_5to17 = 1 or Depression\_5to17 = 1) FunctionalDifficulty\_5to17 = 1.

if (FunctionalDifficulty\_5to17 <> 1 and (Seeing\_5to17 = 9 or Hearing\_5to17 = 9 or Walking\_5to17 = 9 or Selfcare\_5to17 = 9 or Communication\_5to17 = 9 or

Learning\_5to17 = 9 or Remembering\_5to17 = 9 or Concentrating\_5to17 = 9 or AcceptingChange\_5to17 = 9 or Behaviour\_5to17 = 9 or MakingFriends\_5to17 = 9 or Anxiety\_5to17 = 9 or Depression\_5to17 = 9)) FunctionalDifficulty\_5to17 = 9.

variable labels FunctionalDifficulty\_5to17 “difficulty5to17”.

value labels FunctionalDifficulty\_5to17 0 "No functional difficulty" 1 “With functional difficulty” 9 “Missing”.