**SPM-2 Data Management and Analysis Notes**

As a master reference for all analyses, I have organized the SPM-2 items into six Excel documents, corresponding to each of the five age levels (Infant/Toddler, Preschool, Child, Teen, Adult), plus one document for the Environments forms.

DOCUMENT LOCATION: X:\Research & Development\Projects\SPM-2\FORMS\7 Final Item Sets FEB 2019

DOCUMENT INFORMATION: Each document has a tab corresponding to each form in that age level, plus an additional tab for deleted items, as follows:

* *Adult*: Self-Report, Rater-Report, Deleted Items
* *Teen*: Self-Report, Home-Report, School-Report, Deleted Items
* *Child*: Home-Report, School-Report, Deleted Items
* *Preschool*: Home-Report, School-Report, Deleted Items
* *Infant/Toddler*: Infant-Report, Toddler-Report, Caregiver Self-Report, Deleted Items
* *Environments*:
  + *Child School*: Art, Bus, Cafeteria, Music, Phys-Ed, Recess
  + *Teen/Adult* *Driving*: Self-Report, Rater-Report

ITEM INFORMATION COLUMNS: In each Form tab, columns hold specific information about each item:

* *REF*: a master key used primarily for sorting selected an unselected items in a form
* *Scale*: the subscale (SOC, VIS, HEA, TOU, TS, BOD, BAL, PLA) of the item
* *DIM*: the sensory vulnerability dimension the item taps
* *Key*: whether the item is reverse-scored (R)
* *#*: the item number in the Survey Monkey form
* *SPSS VAR*: The variable name in the data set
* *Item*: the item stem

ITEM SCORES: Individual items scores represent the following frequency categories:

1: Never

2: Occasionally

3: Frequently

4: Always

REVERSAL RULES: Certain items scores on the SOC subscale of each form must be reversed (4=1, 3=2, 2=3, 1=4) prior to subscale analysis or scoring. These items have an “R” in the REV column.

SUBSCALE SCORING RULES: Once the correct SOC items are reversed, each subscale score can be developed by adding the scores of the 10 items in the scale. Every form (except Environment forms, which have no subscales) has 10 items in each of the following subscales:

* SOC: Social Participation
* VIS: Vision
* HEA: Hearing
* TOU: Touch
* BOD: Body Awareness
* BAL: Balance and Motion
* PLA: Planning and Ideas

TOTAL SENSORY SYSTEMS SCORE: All the subscale scores (aka, all item scores) can then be added together to derive the total raw score for each form.

NOTES ABOUT THE RAW DATA FILES: There are a few quirks based on how data were collected:

* Caregiver data need to be merged together from 4-9 and 10-30 month forms. However, although the items are identical, they have different variable names in the two files, so they have been assigned common variable names in merged file Kailey has created.
* I have selected the same items for the Teen and Adult driving forms, so that we can publish just one Self-Report and Rater-Report across both ages. These can be analyzed together, and we can see whether there should be different cut-off scores for different age groups. We have not given these forms common variable names yet, so I have listed both variable names in the driving form tabs.
* The Infant/Toddler 4-9 and 10-30 data are accruing in two files: and 4-9 accrues in two files: Home and Daycare. Some of these are the same cases, which will need to be organized in parallel to look at inter-rater; however, not all of the cases in the Daycare files overlap with the Home cases, so some of these may need to be merged with Home for the normative analyses.