**Generating scale scores in SPSS for the Early Human Capability Index (eHCI) – Chinese version**

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Add variable and value labels

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VARIABLE LABELS

question\_1 "Can this child communicate their needs by crying or pointing?"

question\_2 "Can this child understand local language?"

question\_3 "Can this child use words to get their needs met?"

question\_4 "Can this child tell you about their day using a single word or simple sentence?"

question\_5 "Can this child tell you about their day using multiple sentences?"

question\_6 "Can this child take turns speaking in a conversation?"

question\_7 "Does this child show more curiosity about something new in comparison to something familiar?"

question\_8 "Does this child investigate/explore the function of a new toy/game/puzzle or object?"

question\_9 "Does this child always want to learn something new?"

question\_10 "When in an unfamiliar environment with a familiar person present, does this child feel free to explore?"

question\_11 "Is this child dilligent in their approach to a new job or task?"

question\_12 "Does this child will to find out answer if she/he does not understand something?"

question\_13 "Can this child recognise geometric shapes (e.g. triangle, circle, square)?"

question\_14 "Can this child name and identify at least 3 colours?"

question\_15 "Can this child sort and classify objects by common characteristics (e.g. shape, colour, size)?"

question\_16 "Can this child name and recognise the symbol of all numbers from 1 to 10?"

question\_17 "Can this child count to 10 without any help?"

question\_18 "Can this child count to 20 without any help?"

question\_19 "Can this child count to 100 without any help?"

question\_20 "Does this child know that a cow is taller than a dog?"

question\_21 "Does this child know the order of the day (e.g. breakfast then lunch then dinner then sleep?)"

question\_22 "Does this child understand the concepts of yesterday, today and tomorrow?"

question\_23 "Does this child know that an elephant weighs more than a mouse?"

question\_24 "Does the child know that the number 8 is bigger than the number 2? "

question\_25 "Can this child recognise 10 Chinese characters?"

question\_26 "Can this child recognise 20 chinese characters?"

question\_27 "Can this child recognise 100 Chinese characters?"

question\_28 "Can this child hold one book in right way?"

question\_29 "Can this child follow reading directions? (i.e. left to right, top to bottom)"

question\_30 "Can this child read a book and turn pages by himself?"

question\_31 "Can this child read simple sentances?"

question\_32 "Can this child read complex sentances?"

question\_33 "Can this child scribble on a page using a pen/pencil/crayon?"

question\_34 "Can this child write at least 3 characters?"

question\_35 "Can this child write simple sentences?"

question\_36 "Can this child show sympathy or compassion for others?"

question\_37 "Can this child tolerate mistakes of others?"

question\_38 "Can this child identify two culturally important food/fruits?"

question\_39 "Does this child talk politely?"

question\_40 "Does this child also treat the people well if those people treated him/he well?"

question\_41 "Does this child demonstrate respect for adults?"

question\_42 "Is this child good to his or her parents?"

question\_43 "Is the child happy to share their toys and belongings?"

question\_44 "Does this child take care of their own things?"

question\_45 "Does this child demonstrate respect for other children?"

question\_46 "Does this child accept responsibility for their actions?"

question\_47 "Is this child considerate of other people's feelings?"

question\_48 "Is this child helpful?"

question\_49 "Is this child friendly to other children?"

question\_50 "Does this child kick, bite or hit adults or other children?"

question\_51 "Is this child impatient?"

question\_52 "Does this child understand the difference between right and wrong?"

question\_53 "Does this child perform tasks independently?"

question\_54 "Does this child always keep at a task until they are finished?"

question\_55 "Does this child need constant reminding to finish something off?"

question\_56 "Does this child get easily distracted from a task?"

question\_57 "Is this child frequently sickly?"

question\_58 "Does this child have good hygiene i.e. always wash their hands after toileting?"

question\_59 "Does this child have any disabilities/special needs?"

question\_60 "Does this child have a regular diet?"

heightcm "Child's height in cm"

weightkg "Child's weight in kg".

VALUE LABELS

question\_1 to question\_6 1 "Can" 2 "Can't"/

question\_7 to question\_12 1 "Yes" 2 "No"/

question\_13 to question\_35 1 "Can" 2 "Can't"/

question\_36 to question\_60 1 "Yes" 2 "No"/.

EXECUTE.

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\*\*\*\*\* Create new variables for all items used in the calculation of domain scores \*\*\*\*\*\*\*

\*\*\*\*\* 1 = good, 0 = bad in variables below \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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RECODE question\_1 question\_2 question\_3 question\_4 question\_5 question\_6 (1=1) (2=0) into verbal1 verbal2 verbal3 verbal4 verbal5 verbal6.

RECODE question\_7 question\_8 question\_9 question\_10 question\_11 question\_12 (1=1) (2=0) into approaches1 approaches2 approaches3 approaches4 approaches5 approaches6.

RECODE question\_13 question\_14 question\_15 question\_16 question\_17 question\_18 (1=1) (2=0) into numconcept1 numconcept2 numconcept3 numconcept4 numconcept5 numconcept6.

RECODE question\_19 question\_20 question\_21 question\_22 question\_23 question\_24 (1=1) (2=0) into numconcept7 numconcept8 numconcept9 numconcept10 numconcept11 numconcept12.

RECODE question\_25 question\_26 question\_27 question\_28 question\_29 question\_30 question\_31 question\_32 (1=1) (2=0) into reading1 reading2 reading3 reading4 reading5 reading6 reading7 reading8.

RECODE question\_33 question\_34 question\_35 (1=1) (2=0) into writing1 writing2 writing3.

RECODE question\_36 question\_37 question\_38 question\_39 question\_40 question\_41 question\_42 (1=1) (2=0) into cultural1 cultural2 cultural3 cultural4 cultural5 cultural6 cultural7.

RECODE question\_43 question\_44 question\_45 question\_46 question\_47 question\_48 question\_49 question\_52 (1=1) (2=0) into soc\_emot1 soc\_emot2 soc\_emot3 soc\_emot4 soc\_emot5 soc\_emot6 soc\_emot7 soc\_emot10.

RECODE question\_50 question\_51 (1=0) (2=1) into soc\_emot8 soc\_emot9.

RECODE question\_53 question\_54 (1=1) (2=0) into perseverance1 perseverance2.

RECODE question\_55 question\_56 (1=0) (2=1) into perseverance3 perseverance4.

RECODE question\_57 (1=0) (2=1) into ph1.

RECODE question\_58 question\_60 (1=1) (2=0) into ph2 ph3.

EXECUTE.

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\*\*\*\*\* Create domain scores and overall summary measures \*\*\*\*\*\*\*

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\*\*This method will calculate a domain score provided that < 20% of scores (approximately) are missing.

\*\* MEAN.8 denotes "calculate the mean value provided that at least 8 of the individual items are non-missing".

COMPUTE Physical = MEAN.2 (ph1, ph2, ph3).

COMPUTE Verbal = MEAN.4 (verbal1, verbal2, verbal3, verbal4, verbal5, verbal6).

COMPUTE Approaches = MEAN.4 (approaches1, approaches2, approaches3, approaches4, approaches5, approaches6).

COMPUTE Numeracy\_Concepts = MEAN.9 (numconcept1, numconcept2, numconcept3, numconcept4, numconcept5, numconcept6, numconcept7, numconcept8, numconcept9, numconcept10, numconcept11, numconcept12).

COMPUTE Reading = MEAN.6 (reading1, reading2, reading3, reading4, reading5, reading6, reading7, reading8).

COMPUTE Writing = MEAN.2 (writing1, writing2, writing3).

COMPUTE Cultural\_spiritual = MEAN.5 (cultural1, cultural2, cultural3, cultural4, cultural5, cultural6, cultural7).

COMPUTE Social\_emotional = MEAN.8 (soc\_emot1, soc\_emot2, soc\_emot3, soc\_emot4, soc\_emot5, soc\_emot6, soc\_emot7, soc\_emot8, soc\_emot9, soc\_emot10).

COMPUTE Perseverance = MEAN.3 (perseverance1, perseverance2, perseverance3, perseverance4).

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COMPUTE Literacy\_numeracy = MEAN.18 (numconcept1, numconcept2, numconcept3, numconcept4, numconcept5, numconcept6, numconcept7, numconcept8, numconcept9, numconcept10, numconcept11, numconcept12,

reading1, reading2, reading3, reading4, reading5, reading6, reading7, reading8, writing1, writing2, writing3).

COMPUTE Overall\_development= MEAN.6 (Physical, Verbal, Cultural\_spiritual, Social\_emotional, Perseverance, Approaches, Numeracy\_Concepts, Reading, Writing).

EXECUTE.

VARIABLE LABELS

Physical "Physical Health (3-items)"

Verbal "General Verbal Communication (6-items)"

Approaches "Approaches to Learning (6-items)"

Numeracy\_Concepts "Numeracy and Concepts (12-items)"

Reading "Formal literacy - Reading (8-items)"

Writing "Formal literacy - Writing (3-items)"

Cultural\_Spiritual "Cultural Knowledge (7-items)"

Social\_emotional "Social and emotional development (10-items)"

Perseverance "Perseverance (4-items)"

Literacy\_Numeracy "Formal literacy and numeracy (23-items)"

Overall\_development "Summary measure of development across all 9 eHCI domains".

*Note. The current computation of scale scores and summary indicators represents a work in progress. The instrument properties are still being validated and changes may still occur as further reliability and validity studies are conducted. The development of the eHCI involves a process of continuous improvement.*