

Research Summary:

SEI-YV 2.0 Psychometrics

RESEARCH SUMMARY: SEI-YV 2.0 PSYCHOMETRICS

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Abstract: The SEI-YV, by Anabel Jensen and Carina Fiedeldej Van-Dijk, is published by Six Seconds, The Emotional Intelligence Network. Details about the tool are online at: www.6seconds.org/sei/. In the validation of SEI-YV 2.0, a sample of $n = 2,697$ youth ages 7 to 18 was collected from English speaking countries around the world. This report shows the bare facts from this analysis, and is intended for readers with some proficiency in statistics and all SEI certified users in appreciation of the psychometric foundation of Six Seconds tools.

Background

The SEI-YV includes 74 items assessing the Six Seconds Emotional Intelligence Model, 25 items assessing “Life Barometers,” as well as positive impression and mood items. The model includes three macro areas, or “pursuits,” with eight underlying competencies:

- Know Yourself = Self-awareness (Competencies are: Enhance Emotional Literacy, Recognize Patterns)
- Choose Yourself = Self-management (Competencies are: Navigate Emotions, Apply Consequential Thinking, Exercise Optimism, and Engage Intrinsic Motivation)
- Give Yourself = Self-direction (Competencies are: Increase Empathy, Pursue Noble Goals)

Validity

- The factorial structure was found to be supportive of a multi-dimensional scope, comprising eight competencies within three K-C-G pursuits that measure EQ
- Early indications are found of excellent prediction of self-reported “life barometers” (concurrent validity)
 - Overall - $R^2 = 50.22\%$ (preliminary)
 - Good health - $R^2 = 21.78\%$
 - Relationship quality - $R^2 = 37.76\%$ (preliminary)
 - Life satisfaction - $R^2 = 54.53\%$
 - Personal achievement - $R^2 = 42.03\%$
 - Self-efficacy - $R^2 = 13.01\%$ (preliminary)

These figures are conservative in the light of improvements made to SEI-YV 2.1.



The most important EQ scales contributing to each Life Barometer outcome:

Barometer	Most Significant EQ Contributors
Good Health	EIM – Engage Intrinsic Motivation PNG – Pursue Noble Goals EEL – Enhance Emotional Literacy
Relationship Quality	PNG – Pursue Noble Goals EOP – Exercise Optimism ACT – Apply Consequential Thinking
Life Satisfaction	EOP – Exercise Optimism PNG – Pursue Noble Goals EEL – Enhance Emotional Literacy
Personal Achievement	EIM – Engage Intrinsic Motivation EOP – Exercise Optimism PNG – Pursue Noble Goals
Self-Efficacy	ACT – Apply Consequential Thinking RCP – Recognize Patterns PNG – Pursue Noble Goals ICE – Increase Empathy

Inter-scale Correlations

- Desirable associations were found between the scales
 - Three EQ pursuits (K-C-G)
 - 0.71 – 0.77
 - Eight EQ competencies
 - On average 0.55
 - Ranging between 0.43 and 0.71
- The three pursuits and eight competencies performed consistently across different demographics



Reliability

- Internal consistency (Cronbach’s coefficient alpha) and mean scale scores were:
 - EEL - 0.77 11 items 3.52 (out of 5)
 - RCP - 0.67 7 items 3.59
 - ACT - 0.65 8 items 3.43
 - NVE - 0.67 9 items 3.23
 - EIM - 0.80 9 items 3.55
 - EOP - 0.77 8 items 3.39
 - ICE - 0.73 9 items 3.60
 - PNG - 0.73 7 items 3.39
- PIN - 0.76 6 items 3.59

Scale (raw score range 20-100)	Mean	SD	Skewness	Kurtosis
TOTEQ raw	69.67	9.19	0.181	0.088
KNOW raw	71.09	10.37	0.205	0.036
CHOSE raw	68.00	9.15	0.181	0.096
GIVE raw	69.93	10.53	0.208	0.089
EEL raw	70.42	11.21	0.221	0.025
RCP raw	71.76	11.02	0.217	0.043
ACT raw	68.56	10.30	0.203	0.049
NVE raw	64.55	11.13	0.220	-0.013
EIM raw	71.04	11.89	0.235	0.044
EOP raw	67.85	12.17	0.240	-0.006
ICE raw	72.01	10.46	0.206	0.059
PNG raw	67.86	12.43	0.245	0.066
PIN raw	71.74	12.00	0.237	-0.017



Validity Indices

- Positive impression (flagged at 1SD; invalidated at 2SD (SD = 15))
- General frame of mind (I feel great; I think positively; I am in a good mood)
- Number of missing items (Minimum 94% completion (max 6 missing items) is required)
- Response inconsistency
 - 5 item pairs; mean IC = 0.68; IC > 5 is flagged
 - Moderate sensitivity to age - younger youth are less consistent
- No gender & age differences
 - Girls score slightly higher than boys in NVE and ICE
 - Score differences are at most 5 points (Cohen's $d < 0.40$)

Credibility of the Norm Group

- $n = 2,700+$ and growing
- Drawn from across the globe (dominance of Asia and North-America)
- Male and female youth
- Representation of age & age group (mean age = 13.8 years)
- Multiple ethnicities
- Variety in socio-economic sectors
- Rigorous data verification processes were followed
- Outlier response styles were eliminated
 - Extremely positive/negative $\pm 2SD$ from the mean
 - Those who were more pos/neg than 98% of the norm group
- Data were weighed to produce fair standardization statistics
 - Gender x Age category x Country
 - $2 \times 4 \times 4$; 32 categories in all

These statistical facts are described in more detail in the SEI-YV Technical Manual (in press). Information about the SEI-YV is online: www.6seconds.org/sei/youth.php .

