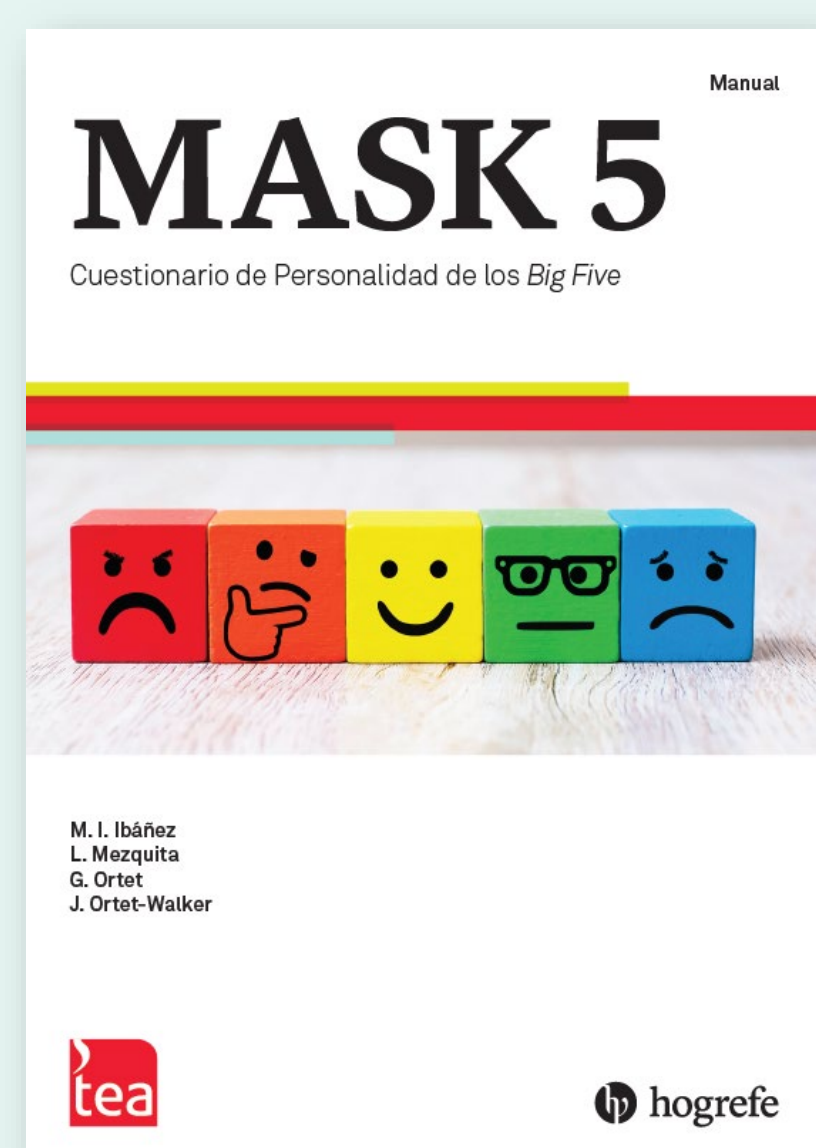


MASK 5-S: Structural Validity and Reliability across Three Samples Aged 8 to 70

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Introduction



The MASK 5 is a Big Five (Goldberg, 1993) personality questionnaire, consisting of two forms:

- ✓ MASK 5, complete form with 160 items, 2 validity scales, 5 domains and 25 facets. Ages 12 and above.
- ✓ MASK 5-S, short form with 50 items, 2 validity scales and 5 domains. Ages 8 and above.

Is the MASK 5-S structurally valid and reliable across three age-group standardization samples?

Methods

Participants

- Children: $N = 1,037$, $M_{age} = 10.35$, $SD = 1.28$, 48.7% girls.
 - Adolescents: $N = 2,838$, $M_{age} = 13.71$, $SD = 1.34$, 49.6% girls.
 - Adults: $N = 1,063$, $M_{age} = 41.31$, $SD = 14.57$, 53.2% women.
- Retest reliability subsamples: $n = 104$ adolescents (48.1% girls) and $n = 220$ adults (48.6% women).

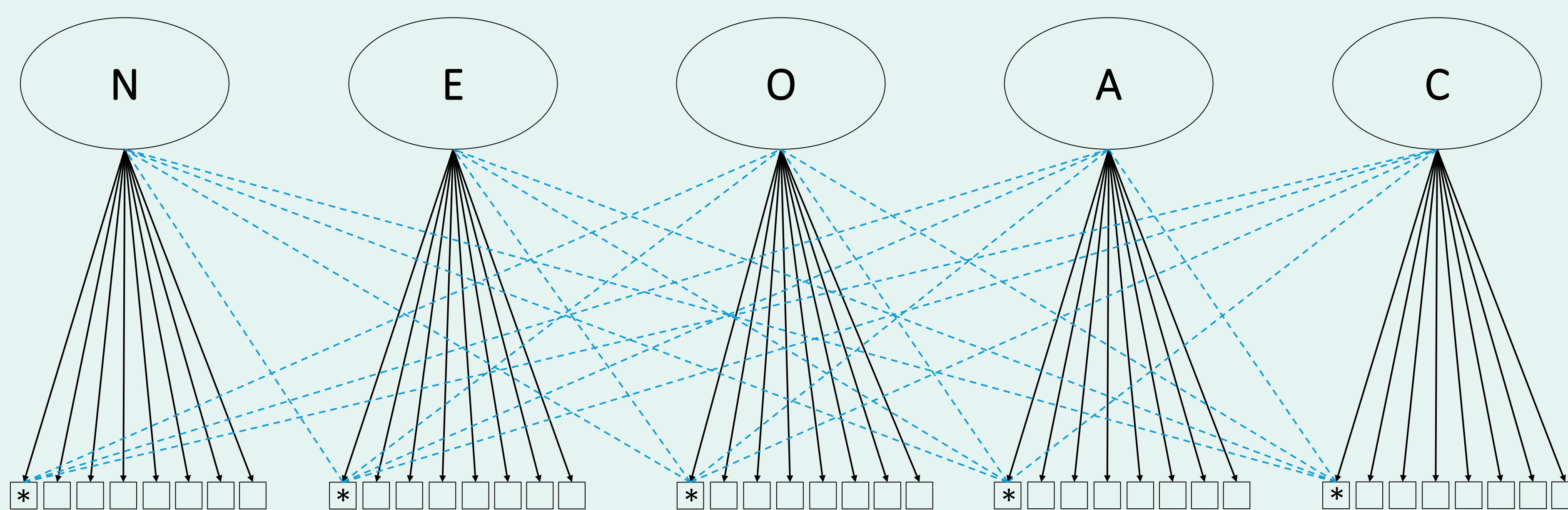
Procedure

- Structural validity: ESEM (Marsh *et al.*, 2019) with WLSMV estimator and Target rotation.
- Reliability: McDonald's (1999) omega (ω) and test-retest zero-order correlations (2-4 weeks).

Results

ESEM model fit and factor structure

Sample	CFI	TLI	RMSEA	SRMR
Children	.93	.90	.05	.04
Adolescents	.92	.90	.06	.03
Adults	.89	.86	.06	.04



Note. Solid arrows represent target loadings and dashed arrows represent cross-loadings.

*For simplicity, cross-loadings are only represented for the first item from each scale. Latent factor correlations have also been omitted for simplicity but are included in the model. All target loadings across samples had values $> .30$. One out of 160 cross-loadings was higher than a target loading in the child and adult samples.

Retest reliability

Sample	N	E	O	A	C
Adolescents	.88	.87	.90	.92	.88
Adults	.90	.92	.92	.89	.93

Note. All correlations were significant at $p < .001$.

ω Internal consistency reliability

Sample	N	E	O	A	C
Children	.72	.74	.77	.75	.81
Adolescents	.83	.83	.75	.75	.83
Adults	.79	.81	.77	.77	.77

Discussion

- ✓ We found evidence of sound structural validity across the three standardization samples of the MASK 5-S, with acceptable fit indices (West *et al.*, 2012) and coherent factor loading patterns.
- ✓ Reliability results were also adequate in terms of internal consistency and retest reliability, with values above conventional cut-offs (Nunnally, 1978).
- ✓ The MASK 5-S can provide a reliable and valid assessment of Big Five personality from age 8 on and may be useful for swift personality assessment throughout the lifespan and across settings (e.g., school, clinical, HR).

References

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Learn more about the MASK 5