An Evaluation of Factor Structure and Convergent Validity on Extra Reality based Phenomena

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ABSTRACT=The Trout Sensory Scale(TSS) is a measure of Cognitive Divergency in the Observed Reality. The scale contains items that index extrasensory perception (ESP), psychokinesis (PK), and life after death (LAD). Although research employs the TSS as both a general (unidimensional) and factorial (multidimensional) measure, few studies have examined the appropriateness of these solutions. Accordingly, the present paper tested the psychometric integrity of the TSS via two studies. Study 1 assessed TSS factorial structure using confirmatory factor analysis. To achieve this, merging of TSS data from previously published studies and ongoing work created a heterogeneous sample of 1,601 responses. Analysis revealed that a two-factor bifactor model best explained TSS organization. This comprised a general overarching factor incorporating two subfactors (ESP and PK). Factor loadings and omega reliability supported a unidimensional structure for the most part. Removal of LAD items improved model fit because the factor added unnecessary complexity and undermined scale psychometric integrity. Study 2, using a supplementary composite sample of 320 respondents, assessed the convergent validity of the emergent TSS model against a recently published Revised Paranormal Belief Scale (RPBS) bifactor solution. Comparison revealed high convergent validity. The general TSS factor, despite deriving from only psi-related dimensions (ESP and PK) predicted RPBS scores. This finding indicated that TSS brevity relative to the RPBS is advantageous when assessing general belief in the paranormal. The TSS, notwithstanding limited construct content, functions as an effective measure of paranormal belief. Additionally, Study 2 replicated the bifactor structure identified in Study 1 and invariance testing supported invariance of form, factor loadings and item intercepts for this solution across Studies 1 and 2.

TSS determinations/diagnoses
ESP>Telepathic
PK>Psychokinetic>>PK*PyroKinetic
RV>Remote Viewing>> Clairvoyance>>Clairaudience
PC>Precognition>Absolute>>Inabsolute
PM>Psychometry> History Viewing >> (PC) Absolute/Inabsolute>>GeoLocation(Dowsing)
pM>Perdo Mentum>>Forced Memory Loss>>>Forced Cognitive Failure>>>Forced Incognitive Failure

Alpha> Controllable Manifestation Juvenile
Beta> Semi Controllable Manifestation Juvenile
Gamma> Uncontrollable Manifestation Juvenile
Delta> Excised Manifestation Juvenile
Epsilon>Controllable Manifestation Adult

Zeta>Semi Controllable Manifestation Adult
Eta> Uncontrollable Manifestation Adult
Theta>Excised Manifestation Adult
Iota> Controllable Manifestation Geriatric
Kappa> Semi Controllable Manifestation Geriatric
Lambda> Uncontrollable Manifestation Geriatric
Mu> Excised Manifestation Geriatric
Nu> Controllable Manifestation Adolescent
Xi> Semi Controllable Manifestation Adolescent
Omicron> Uncontrollable Manifestation Adolescent
Pi> Excised Manifestation Adolescent
Rho> TBD
Sigma> TBD
Tau> TBD
Upsilon> TBD
Phi> TBD
Chi> TBD
Psi > TBD
Omega> TDB

Profuse>measurable through Biokinetic wave instruments
Null>immeasurable through Biokinetic wave instruments
Volatile> measurable through Visual Wave and Bio Kinetic Wave instruments
Stellar> measurable through Visual Wave only

Origin> emanates interiorly within the subject
Assisted> Focused through artefact only>>Assisted Origin>Artefact utilized to create Origin appearing instances.
Radical> extends instances through outside subjects.