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OBJECTIVE

Develop and **validate** a public bus passenger safety scale

INTRODUCTION

- PT users make safety evaluations
- To date, no instrument exist to capture the content domain of PT users' personal safety
- PT safety scale important to understand differences and similarities between bus safety needs globally

DOMAIN SPECIFICATION AND ITEM GENERATION

- No theoretical perspectives on PT users' safety assessments
- Inductive scale development approach adopted
- 46 items generated from FGDs and IDIs (in a phenomenological constructivist study)

Content validity:

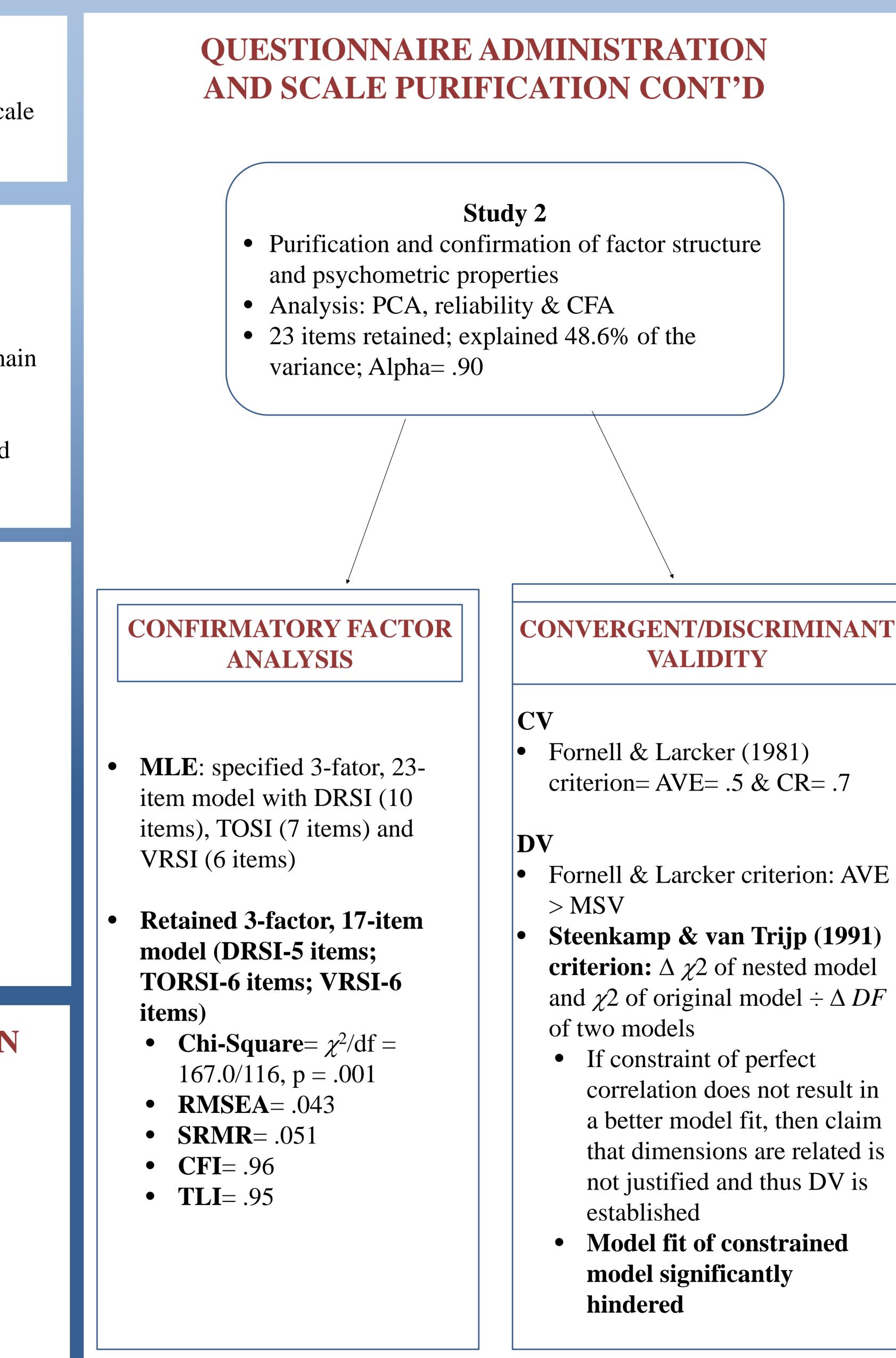
- Item review by traffic safety domain experts
- Item readability test
- 41 items retained

QUESTIONNAIRE ADMINISTRATION AND SCALE PURIFICATION

Study 1

- Scale factor structure and reliability
- Analysis: PCA (Varimax rotation) & reliability
- 3-factor solution, 24-items (DRSI- 8 items; TORSI- 7 items; VRSI- 9 items)
- Explained 44.4% of variance; Alpha= .88

Construction and validation of a public bus passenger safety scale



SCALE DIMENSIONS AND ITEM LOADINGS

DRSI

- Appropriateness of footwear (0.58)

- 0.72)

TORSI

- Operator reputation (public image) (0.71)
- Years of existence (0.71)
- Organisational structure (0.74)

VRSI

- Bus quality (0.56)
- Condition of exterior components (0.57)
- Bus suitability for the journey (0.72)
- Apparent load to carry/convey (0.69)
- Location of luggage/load on bus (0.61)
- Passenger overloading (0.61)

CONCLUSION AND FUTURE STUDIES

- Proposed scale is reliable and valid
- choices



• Ability to handle vehicle based on physique (0.57) • Outward emotional state at the time (0.62) • Professionality: (Appearance- 0.72) (Behaviour-

• Capital base and PT investments (0.68) • Prestige commuters accord operator (0.67) • Frequency of fleet breakdowns on journeys (0.56)

Public bus passenger safety is a 3-dimensional concept

Test scale's ability to predict future bus use intentions and operator