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## **Exploratory and Confirmatory Factor Analysis** of the Child Uncertainty in Illness Scale Among **Children with Chronic Illness**

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### **Abstract**

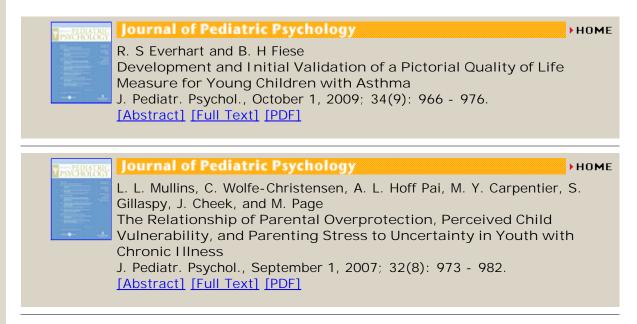
Objective To conduct an exploratory factor analysis (EFA) and a confirmatory factor analysis (CFA) of the Child Uncertainty in Illness Scale (CUIS) with a sample of children and adolescents with a chronic health condition. Developmental differences in factor structure were also examined. **Methods** A sample of 373 children aged 8–18 years with chronic conditions completed the CUIS as a part of a larger battery of measures. Results The EFA yielded a 16item two-factor model termed Unpredictability/Ambiguity and Comprehension. The CFA yielded a 14-item two-factor model that fits the data very well, where  $\chi^2(df = 74) = 95.396$ , Comparative Fit Index (CFI) = .973, Tucker Lewis Index (TLI) = .967, and Root Mean Square error of approximation (RMSEA) = .038. No developmental differences were found in underlying factor structures:  $\Delta x^2 (df = 12) = 17.754$ ,  $\Delta CFI = .004$ ,  $\Delta TLI = -.001$ , and  $\Delta RMSEA = .000$ . **Conclusions** The two-factor CUIS measure could be a useful tool for assessing illness uncertainty among children with chronic illness.

**Key words:** Child Uncertainty in Illness Scale; childhood chronic condition; confirmatory factor analysis; exploratory factor analysis; illness uncertainty.

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