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Applications of Individual Growth Curve Modeling for Pediatric Psychology Research

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Objective To provide a brief, nontechnical introduction to individual growth curve modeling for the analysis of longitudinal data. Several applications of individual growth curve modeling for pediatric psychology research are discussed. **Methods** To illustrate these applications, we analyze data from an ongoing pediatric psychology study of the possible impact of spina bifida on child and family development (N = 135). Three repeated observations, spaced by approximately 2 years, contributed to the analyses (M age at baseline = 8.84). **Results** Results indicated that individual linear growth curves of emotional autonomy varied as a function of the youth gender by spina bifida group membership interaction. **Conclusions** Strengths of individual growth curve modeling relative to more traditional methods of analysis are highlighted (e.g.,

Key words: Growth curves; trajectories; longitudinal modeling; statistical methods.

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completely flexible specification of the time variable, explicit modeling of both aggregate-level and individual-level growth curves).

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