

# A Confirmatory Factor Analysis of the Coach Behavior Scale for Sport

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*The Coaching Behavior Scale for Sport (CBS-S) is an athlete-centered measure of coaching behavior designed specifically for youth sport. Research has supported the psychometric properties and construct validity of the scale, however there has not been a published confirmatory factor analysis (CFA) of the CBS-S. The current study was designed to confirm the factor structure of the CBS-S, as well as to examine any potential invariance of this factor structure by gender. A sample of 346 youth sport athletes were administered the scale. The sample comprised relatively equal numbers of males ( $n = 193$  male) and females ( $n = 152$ ) who ranged in age from 13-18 years ( $M = 15.17$ ,  $SD = 1.28$ ), and represented the sports of basketball ( $n = 124$ ), ice hockey ( $n = 114$ ), and soccer ( $n = 99$ ). A CFA (heterogeneous kurtosis method) revealed that the model showed an excellent fit to the data ( $CFI = .985$ ,  $RMSEA = .044$ ). An analysis of invariance by gender showed that the measurement model did not vary between male and female youth sport participants. These results offer strong support to the factor structure of the measurement model of the CBS-S, and, in context with the previous research, suggest that the scale is a valid and reliable measure for coaching effectiveness in youth sport.*