

■ **Table 29.1** ■

**Measures Assessing Emotional Reactivity**

Variable or concept	Measure	Dimension	Source
Trait competitive anxiety	Sport Anxiety Scale-2 (SAS-2)	Somatic anxiety, worry, and concentration disruption	Smith, Smoll, Cumming, & Grossbard (2006)
Trait competitive anxiety	Sport Competition Anxiety Test (SCAT)	Unidimensional measure of competitive trait anxiety	Martens, Vealey, & Burton (1990)
Sport-specific state anxiety	Competitive State Anxiety Index-2 (CSAI-2)	Cognitive anxiety, somatic anxiety, and self-confidence	Martens, Vealey, & Burton (1990)
Sport-specific state anxiety	Revised Competitive State Anxiety Index-2 (CSAI-2R)	Cognitive anxiety, somatic anxiety, and self-confidence	Cox, Martens, & Russell (2003)
Brief measure of state anxiety	Mental Readiness Form-Likert (MRF-L)	Cognitive anxiety, somatic anxiety, and self-confidence	Krane (1994)
Brief measure of state anxiety	Anxiety thermometer	Unidimensional measure of state anxiety	Houtman & Bakker (1989)
Daily affect	Positive and Negative Affect Schedule (PANAS)	Positive and negative affective responses for daily living	Watson, Clark, & Tellegen (1988)
Competitive state emotion	Differential Emotions Scale (DES-IV)	Interest, enjoyment, surprise, sadness, anger, disgust, contempt, fear, guilt, shame, shyness, and self-hostility	Izard (1991)
Precompetitive state emotion	Sport Emotion Questionnaire (SEQ)	Anger, anxiety, dejection, excitement, and happiness	Jones, Lane, Bray, Uphill, & Catlin (2005)
Physiological arousal	HR		Berntson, Quigley, & Lozano (2007)
Physiological arousal	SCR		Dawson, Schell, & Filion (2007)
Physiological arousal	EMG	Anxiety manifested as muscle tension	Pijpers, Oudejans, Holsheimer, & Bakker (2003)
Physiological index of hemispheric asymmetry	EEG (spectral)	Greater left frontal cortical activity indicates greater resting positive affect	Saarela (1999)
Physiological signal extracted from the ongoing raw EEG	EEG (ERPs)	Attention devoted to discrimination of an obligatory stimulus (P3 component)	Murray & Janelle (2007)
Physiological arousal	Pupil diameter	Extent of pupil dilation	Wilson, Smith, Chattington, Ford, & Marple-Horvat (2006)

(continued)

■ **Table 29.1** ■  
(continued)

Variable or concept	Measure	Dimension	Source
Behavioral index	Movement efficiency	Efficiency of motor function	Wilson, Smith, Chattington, Ford, & Marple-Horvat (2006)
Behavioral index	Gaze behavior (search rate)	Number and duration of fixations	Janelle, Singer, & Williams (1999)
Behavioral index	Gaze behavior (quiet eye)	Duration of final fixation to the target area until the initiation of the motor response (movement time)	Rodrigues, Vickers, & Williams (2002)