.onvirinht © \$0005 by Mosby, Inc.			
Autonomic measures (e.g., heart rate, blood pressure, heart rate spectral analyses) Hormonal-metabolic measures	Toddler-Preschooler Postoperative Pain Scale (TPPPS) http://www.medal.org/ch44.html	Riley Infant Pain Scale (RIPS) http://www.medal.org/ch44.html FLACC (Face Legs Activity Cry Consolability) Behavioral Scale for Postoperative Pain in Young Children	CRIES (Crying, Requires oxygen, Increased vital signs, Expression, Sleep) Scale for Neonatal Postoperative Pain Assessment: http://www.medal.org/ch44.html Behavioral Pain Score (BPS) http://www.medal.org/ch44.html
Scores changes in heart rate, blood pressure, or measures of heart rate variability (e.g., "vagal tone"). Plasma or salivary sampling of hormones (e.g., cortisol, epinephrine)	Seven behavioral descriptors for three categories of behavior (verbal, facial, bodily movements) are used to assess acute pain following procedures. Each behavior descriptor scores 0 or 1, depending on presence in a 5-minute period; total scores range from 0 to 7.	0 to 8; higher numbers indicate more pain. Six parameters (facial, body movement, sleep, verbal/touch, consolability, and response to movements/touch) are scored on a 0-3 scale; total score ranges from 0 to 18; higher scores indicate more pain. Five categories of pain behaviors—facial expression, leg movement, activity, cry, and consolability—are scored on a 0- to 2-point scale. Total score range is 0 to 10; higher score reflects discomfort and pain.	Five parameters are assessed: Crying, Requires oxygen, Increased vital signs, Expression, and Sleep. Each has a score of 0-2; sum of subscores ranges from 0 to 10. Higher scores indicate more pain. An abbreviated form of CHEOPS; three behavioral parameters are assessed: facial expression, cry, and movements, scored 0 to 2 or 3. Total score range is
All ages	1-5 years	Preverbal infants and children with cerebral palsy 2 months-7 years; reliable for children with cognitive impairment	Neonates: 32-60 weeks' gestation 3-36 months
Can be used at all ages; useful for patients receiving mechanical ventilation; nonspecific: changes can occur unrelated to pain; unreliable in infants; Buttner & Finke, 2000 Can be used at all ages; nonspecific; changes can occur unrelated to pain; inconvenient, cannot provide "real-time" information; Ho et al, 1996	Reliable and valid per authors; Tarbell et al, 1992	Reliable (specific, not sensitive) and valid; Joyce et al, 1994; Schade et al, 1996 Reliable and valid; high interrater reliability; Merkel et al, 1997; Voepel-Lewis et al, 2002; Willis et al, 2003	Reliable and valid; Krechel & Bildner, 1995 Data on reliability and validity not available; Robieux & Kumar, 1991

(Continued)