

gestational age) and full-term newborns up to 100 days	0.95 CI for preintervention and postintervention sedation scale Internal consistency (Cronbach alpha): Preintervention pain scale, 0.75 and 0.71 raters 1 and 2 Postintervention pain scale, 0.25 and 0.27 raters 1 and 2 Preintervention sedation scale, 0.88 and 0.81 raters 1 and 2 Postintervention sedation scale, 0.86 and 0.89 raters 1 and 2	Behavior/state (0-2) Facial expression (0-2) Extremities/tone (0-2) Vital signs—heart rate, respiratory rate, blood pressure, SaO ₂ (0-2)	10 = intense pain Sedation score: 0 = no sedation; 10 = deep sedation
CRIES NEONATAL POSTOPERATIVE PAIN SCALE			
CRIES	0	1	2
Crying	No	High pitched	Inconsolable
Requires oxygen for saturation >95%	No	<30%	>30%
Increased vital signs	Heart rate and blood pressure \leq preoperative state	Heart rate and blood pressure increase <20% of preoperative state	Heart rate and blood pressure increase >20% of preoperative state
Expression	None	Grimace	Grimace, grunt
Sleepless	No	Wakes at frequent intervals	Constantly awake

CI, Confidence intervals; ICC, interclass correlations; SaO₂, arterial oxygen saturation.

The Premature Infant Pain Profile (PIPP) was developed specifically for preterm infants (Sweet and McGrath, 1998; Gibbons, Stevens, Yamada, et al, 2014). The category “gestational age at time of observation” gives a higher pain score to infants with lower gestational age. Infants who are asleep 15 seconds before the painful procedure also receive additional points for their blunted behavioral responses to painful stimuli.

The Neonatal Pain, Agitation, and Sedation Scale (NPASS) was originally developed to measure pain or sedation in preterm infants after surgery (Hillman, Tabrizi, Gauda, et al, 2015). It measures five criteria (see Table 5-3) in two dimensions (pain and sedation) and is used in neonates as young as 23 weeks of gestation up to infants 100 days old. Extra points are added in the pain scale dimension for preterm infants based on gestational age.

Children with Communication and Cognitive